GARDENA CITY COUNCIL

Regular Meeting Notice and Agenda

Council Chamber at City Hall
1700 West 162nd Street, Gardena, California
Website: www.cityofgardena.org

Tuesday, February 25, 2025
Open Session 7:30 p.m.

TASHA CERDA, *Mayor*
RODNEY G. TANAKA, *Mayor Pro Tem*
MARK E. HENDERSON, *Council Member*
PAULETTE C. FRANCIS, *Council Member*
WANDA LOVE, *Council Member*

MINA SEMENZA, *City Clerk*
GUY H. MATO, *City Treasurer*
CLINT OSORIO, *City Manager*
CARMEN VASQUEZ, *City Attorney*
LISA KRANITZ, *Assistant City Attorney*

If you would like to participate in this meeting, you can participate via the following options:

1. **VIEW THE MEETING live on SPECTRUM CHANNEL 22 or ONLINE at** youtube.com/CityofGardena

2. **PARTICIPATE BEFORE THE MEETING** by emailing the Deputy City Clerk at publiccomment@cityofgardena.org by 5:00p.m. on the day of the meeting and write "Public Comment" in the subject line.

3. **ATTEND THE MEETING IN PERSON**

   PUBLIC COMMENT: The City Council will hear from the public on any item on the agenda or any item of interest that is not on the agenda at the following times:

   - Agenda Items – At the time the City Council considers the item or during Oral Communications
   - Non-agenda Items – During Oral Communications
   - Public Hearings – At the time for Public Hearings listed on the Agenda

   If you wish to address the Council, please complete a "Speaker Request" form and present it to the City Clerk or Sergeant of Arms. You will be called to the podium by name when it is your turn to address the Council. The City Council cannot legally take action on any item not scheduled on the Agenda. Such items may be referred for administrative action or scheduled on a future Agenda. Members of the public wishing to address the City Council will be given three (3) minutes to speak.

4. The City of Gardena, in complying with the Americans with Disabilities Act (ADA), requests individuals who require special accommodations to access, attend and/or participate in the City meeting due to disability, to please contact the City Clerk's Office by phone (310) 217-9565 or email cityclerk@cityofgardena.org at least 24 business hours prior to the scheduled general meeting to ensure assistance is provided. Assistive listening devices are available.

STANDARDS OF BEHAVIOR THAT PROMOTE CIVILITY AT ALL PUBLIC MEETINGS

- Treat everyone courteously;
- Listen to others respectfully;
- Exercise self-control;
- Give open-minded consideration to all viewpoints;
- Focus on the issues and avoid personalizing debate; and
- Embrace respectful disagreement and dissent as democratic rights, inherent components of an inclusive public process, and tools for forging sound decisions

Thank you for your attendance and cooperation

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1. **ROLL CALL**

   PUBLIC COMMENT ON CLOSED SESSION

2. **CLOSED SESSION**

   CITY ATTORNEY REPORT OUT OF CLOSED SESSION

3. **PLEDGE OF ALLEGIANCE**

   186th St. Elementary School

4. **INVOCATION**

   Pastor Dwight Dudley
   Calvary LIFE Church

5. **PRESENTATIONS**

   5.A Certificate of Recognition to Burt Nakamura for his service to the community as an Owner Representative Member of the Rent Mediation Board
   Recog-outgoing Commissioner - Burt Nakamura.pdf

   5.B Certificate of Recognition to Carrie Scott for her service to the community as a Member of the Recreation and Parks Commission
   Recog-outgoing Commissioner - Carrie Scott.pdf

   5.C Western Avenue Railroad Road Closure Presentation - *to be presented by Public Works Director Allan Rigg*

   5.D Gardena Events Video Presentation

6. **PROCLAMATIONS**

7. **APPOINTMENTS**

7.A Council Appointments to Commissions, Committees, Councils and Boards (Appointees to be Ratified and Sworn In)

Youth Commission - Anaiya Bowers
(Appointed by Youth Commission)

8. **CONSENT CALENDAR**

NOTICE TO THE PUBLIC - Roll Call Vote Required On The Consent Calendar
All matters listed under the Consent Calendar will be enacted by one motion unless a Council Member requests Council discussion, in which case that item will be removed from the Consent Calendar and considered separately following this portion of the agenda.

PUBLIC COMMENT ON CONSENT CALENDAR

8.A Waiver of Reading in Full of All Ordinances Listed on this Agenda and that they be Read by Title Only
CONTACT: CITY CLERK

8.B Approve Minutes:
Regular Meeting of the City Council, February 11, 2025
CONTACT: CITY CLERK
02112025 CC MEETING - FINAL.pdf

8.C Approval of Warrants/Payroll Register, February 25, 2025
CONTACT: ADMINISTRATIVE SERVICES
Warrant-Payroll Register 02-25-25.pdf

8.D Monthly Investment Portfolio, January 2025
CONTACT: ADMINISTRATIVE SERVICES
January 2025 Investment Report.pdf

8.E Personnel Report P-2025-4 02-25-25
CONTACT: ADMINISTRATIVE SERVICES
PERS RPT P-2025-4 2-25-25.pdf

8.F SECOND READING AND ADOPTION OF ORDINANCE NO. 1877 , Amending the Gardena Municipal Code Chapter 18.66 and Section 18.36.020 relating to allowing non-storefront retail medical cannabis delivery services businesses in the M-1 and M-2 zoning districts.
CONTACT: COMMUNITY DEVELOPMENT
Ordinance No. 1877

8.G SECOND READING AND ADOPTION OF ORDINANCE NO. 1880 , Amending Sections 14.04.090 and 14.04.220 of Chapter 14.04 – Residential Rent Mediation and Hearings – of the Gardena Municipal Code relating to Notification of Rent Increases
CONTACT: CITY MANAGER
Ordinance No. 1880 - Rent mediation.pdf

9. **EXCLUDED CONSENT CALENDAR**

10. **PLANNING & ENVIRONMENTAL QUALITY COMMISSION ACTION SHEET**

10.A FEBRUARY 18, 2025 - ***Meeting Cancelled***
2025_02_18 CANCELLATION.pdf

11. **ORAL COMMUNICATIONS (LIMITED TO A 30-MINUTE PERIOD)**

Oral Communications by the public will be heard for one-half hour at or before 8:30 p.m. or at the conclusion of the last agenda item commenced prior to 8:30 p.m. Oral Communications not concluded at that time shall be resumed at the end of the meeting after Council Reports. Speakers are to limit their remarks to three minutes, unless extended by the Mayor. An amber light will appear to alert the speaker when two minutes are complete, and a red light will appear when three minutes are over. Your cooperation is appreciated.

12. **DEPARTMENTAL ITEMS - ADMINISTRATIVE SERVICES**

13. **DEPARTMENTAL ITEMS - COMMUNITY DEVELOPMENT**

13.A PUBLIC HEARING: RESOLUTION NO. 6693, Certifying an Environmental Impact Report, adopting a Mitigation Monitoring and Reporting Program, adopting a Statement of Overriding Considerations and making CEQA Findings Relating to the 1450 Artesia Specific Plan for the 6.3 acre Property located near the southwest corner of Artesia Boulevard and Normandie Avenue; and
PUBLIC HEARING: ORDINANCE NO. 1879, Approving the 1450 Artesia Specific Plan and a Development Agreement to allow the redevelopment of the site with a mixed-use commercial/industrial development consisting of a 268,000 gross square foot building with an approximate height of 75 feet.
PROJECT LOCATION: 1440, 1450, 1462, 1472 Artesia Boulevard (APN: 6106-036-010, -012, -034, -035, -036, -037)
APPLICANT: 1450 Artesia Acquisition Company LLC (Representative: Brian Sorensen)

Staff respectfully recommends that after presentation by Staff and Environmental Consultant the City Council:

- **Open the public hearing;**
- **Hear the Applicant's presentation;**
- **Receive testimony from the public, allow three (3) minutes for each speaker;**
- **Allow the Applicant time to respond; and**
- **Close the public hearing.**

Planning Commission Recommendation for Motion:

- **Adopt Resolution No. 6693; and**
- **Introduce Ordinance No. 1879, relating to the 1450 Artesia Specific Plan Project.**

Staff Report
Attachment 1 - Planning Commission Staff Report dated February 4, 2025
Attachment 2 - Planning Commission Resolution No. 2-25 (EIR) without Exhibits
Attachment 3 - Planning Commission Resolution No. 3-25 (PROJECT) without

Exhibits
Attachment 4 - Public Comments received for February 4, 2025 Public Hearing
Attachment 5 - Response to LAUSD Comment Letter
Attachment 6 - Economic Analysis
Resolution No. 6693 (EIR)
Exhibit A - Draft EIR, dated July 2024
Exhibit B - Final EIR, dated January 2025
Exhibit C - Mitigation Monitoring and Reporting Program
Exhibit D - Response to LAUSD Comment Letter
Ordinance No. 1879 (PROJECT)
Exhibit A - 1450 Artesia Specific Plan
Exhibit B - Project Plans
Exhibit C - Conditions of Approval
Exhibit D - Development Agreement

14. **DEPARTMENTAL ITEMS - ELECTED & CITY MANAGER'S OFFICES**

15. **DEPARTMENTAL ITEMS - POLICE**

16. **DEPARTMENTAL ITEMS - PUBLIC WORKS**

16.A Award Construction Contract for the Rowley Park Improvements Basketball Court Rehab Phase 1 - Demolition, Drainage, Electrical and Site Furnishing Project, JN 530, to Zeco, Inc. in the amount of $588,537.55, Approve the Project Plans & Specifications, 15% Project Contingency, and Declare California Environmental Quality Act (CEQA) Exemption.

Staff Recommendation:
- **Award Construction Contract**
- **Approve Project Plans and Specifications**
- **Approve Project Contingency**
- **Declare CEQA Exemption**

JN 530 PH1_Specs.pdf
JN 530 PH1 Plans.pdf
JN 530 PH 1_CEQA_NOE.pdf
JN 530 - Zeco, Inc. 1-30-2025.pdf
JN 530 project location map.pdf

16.B Award Construction Contract for the Park Electronic Signage Project, JN 529, to Square Signs LLC dba Front Signs in the amount of $435,015.85. Additionally, Approve the Project Plans & Specifications, $12,000 Construction Support Services Contract with David Volz Design (DVD), 20% of Project Contingency and Declare California Environmental Quality Act (CEQA) Exemption.

Staff Recommendations:
- **Award Construction Contract**
- **Approve Project Plans and Specifications**
- **Approve Construction Support Services**
- **Approve Project Contingency**
- **Declare CEQA Exemption**

Square Signs Bid.pdf

Approved Rowley Park Plans.pdf
Notice of Exemption JN 529.pdf
Construction Support Proposal - DVD.pdf
JN 529_Project Location Map.pdf
Rowley Park Specifications & Contract Docs.pdf
Rowley Park Reader Sign Board Rendering.pdf

17. **DEPARTMENTAL ITEMS - RECREATION & HUMAN SERVICES**

17.A RESOLUTION NO. 6696, Approving the Renaming of the Freeman Park Baseball Field to Ichikawa Nippon Yakyu Field to Recognize the Long-Standing Relationship with our Japanese Sister City

Staff Recommendation: Discuss and Consider Adopting Resolution No. 6696
Resolution_6696.pdf

18. **DEPARTMENTAL ITEMS - TRANSPORTATION**

19. **COUNCIL ITEMS**

19.A RESOLUTION NO. 6697, Designating Certain Members of the Gardena City Council to serve as Representatives on the South Bay Council of Governments Governing Board

Staff Recommendation: Adopt Resolution No. 6697
Resolution No. 6697-Designate Representatives to SBCCOG.pdf

19.B RESOLUTION NO. 6695, Discuss and Consider Adopting Resolution No. 6695 - City of Gardena Code of Conduct for Elected and Appointed Officials

Staff Recommendation: Discuss and Consider Adopting Resolution No. 6695.
RESOLUTION No. 6695 Code of Conduct for Elected and Appointed Officials.pdf

20. **COUNCIL DIRECTIVES**

21. **CITY MANAGER REMARKS RE: DIRECTIVES / COUNCIL ITEMS**

22. **COUNCIL REMARKS**

1. COUNCIL MEMBER FRANCIS
2. COUNCIL MEMBER HENDERSON
3. MAYOR PRO TEM TANAKA
4. MAYOR CERDA
5. COUNCIL MEMBER LOVE

23. **ANNOUNCEMENT(S)**

24. **REMEMBRANCES**

25. **ADJOURNMENT**

The Gardena City Council will adjourn to the Closed Session portion of the City Council Meeting at 7:00 p.m. followed by the Regular City Council Meeting at 7:30 p.m. on Tuesday, March 11, 2025.

I hereby certify under penalty of perjury under the laws of the State of California that the foregoing agenda was posted in the City Hall lobby not less than 72 hours prior to the meeting. A copy of said Agenda is available on our website at www.CityofGardena.org.

Dated this 21st day of February 2025

/s/ MINA SEMENZA
MINA SEMENZA, City Clerk

Certificate of Recognition

presented to

Burt Nakamura

In official acknowledgment and genuine appreciation of over 35.5 years of exemplary, dedicated community leadership and service as a

Rent Mediation Board

Owner Representative

We, the Mayor and Members of the City Council of the City of Gardena, California, do hereby deem it a distinct honor and pleasure to commend you for your efforts and to extend sincere best wishes for good health, happiness, and well-deserved success in all future endeavors.

Presented this 25th day of February, 2025

Mayor Tasha Cerda

Councilmember Rodney G. Tanaka

Councilmember Mark E. Henderson

Councilmember Paulette C. Francis

Councilmember Wanda Love

Certificate of Recognition

presented to

Carrie Scott

In official acknowledgment and genuine appreciation of over 2.4 years of exemplary, dedicated community leadership and service as a

Recreation & Parks Commissioner

We, the Mayor and Members of the City Council of the City of Gardena, California, do hereby deem it a distinct honor and pleasure to commend you for your efforts and to extend sincere best wishes for good health, happiness, and well-deserved success in all future endeavors.

Presented this 25th day of February, 2025

Mayor Tasha Cerda

Councilmember Rodney G. Tanaka

Councilmember Mark E. Henderson

Councilmember Paulette C. Francis

Councilmember Wanda Love

MINUTES
Regular Meeting Notice
Gardena City Council
Tuesday, February 11, 2025

The Regular Meeting Notice and Agenda of the Gardena City Council of the City of Gardena, California, was called to order at 7:00 PM on Tuesday, February 11, 2025, in the Council Chamber at City Hall 1700 West 162nd Street, Gardena, California.

1. **ROLL CALL**

Present: Mayor Tasha Cerda; Mayor Pro Tem Rodney G. Tanaka; Council Member Mark E. Henderson; Council Member Paulette C. Francis; and Council Member Wanda Love. Other City Officials present: City Manager Clint Osorio; City Attorney Carmen Vasquez; City Clerk Mina Semenza; and Deputy City Clerk Becky Romero.

PUBLIC COMMENT ON CLOSED SESSION

2. **CLOSED SESSION** - ***None***

CITY ATTORNEY REPORT OUT OF CLOSED SESSION

3. **PLEDGE OF ALLEGIANCE**

Iakopo "Bam" Tovio and Tre' Harrison, both seniors at Serra High School led the Pledge of Allegiance. Iakopo is a dual sport athlete playing football and rugby. He plans to major in Mechanical Engineering and has obtained a 3.5 GPA over the course of 4 years. He is the ASB Vice-President, and his favorite subject is English. Tre' is a dual sport athlete playing football and track. He has committed to the University of California Berkeley. He has maintained a 4.0 GPA for 6 years. He is ASB President, and his favorite subject is Math.

4. **INVOCATION**

Reverend John Iwohara of the Gardena Buddhist Church led the Invocation.

5. **PROCLAMATIONS**

5.A "BLACK HISTORY MONTH" February 2025 – ***was proclaimed by Mayor Cerda***

6. **APPOINTMENTS**

6.A Reorganization of Council Assignments of Delegates and Alternates to Outside/City Committees

Approve Council Assignments to Outside / City Committees

City Manager Osorio presented the Staff Report.

Mayor Cerda stated that we have four (4) different Alternate positions that we need to temporarily fill, because these committees are so important, and we definitely want to make sure that they are represented by the City of Gardena. They are being temporarily assigned to fill in for Council Member Love.

She then asked if any of the Council Members were interested in being appointed as the City Selection Committee, LAFCO, Coastal and Transportation Commission Alternate; Council Member Henderson volunteered.

It was moved by Mayor Cerda, and seconded by Mayor Pro Tem Tanaka, and carried by the following roll to Appoint Council Member Henderson as the LAFCO Alternate:

Ayes: Mayor Cerda, Mayor Pro Tem Tanaka, and Council Members Henderson and Francis
Noes: Council Member Love
Absent: None

Mayor Cerda asked if any of the Council Members were interested in being appointed as the League of California Cities Alternate; Mayor Cerda volunteered.

It was moved by Mayor Cerda, and seconded by Council Member Henderson, and carried by the following roll to Appoint Mayor Cerda as the League of California Alternate:

Ayes: Mayor Cerda, Council Member Henderson, Mayor Pro Tem Tanaka, and Council Member Francis
Noes: Council Member Love
Absent: None

Mayor Cerda asked if any of the Council Members were interested in being appointed as the South Bay Cities Council of Government; Council Member Henderson volunteered.

It was moved by Mayor Cerda, and seconded by Mayor Pro Tem Tanaka, and carried by the following roll to Appoint Council Member Henderson as the South Bay Cities Council of Government Alternate:

Ayes: Mayor Cerda, Mayor Pro Tem Tanaka, and Council Member Henderson
Noes: Council Members Francis and Love
Absent: None

Mayor Cerda asked if any of the Council Members if were interested in being appointed as the Southern California Association of Governments (SCAG) Alternate; Mayor Pro Tem Tanaka volunteered.

It was moved by Mayor Cerda, and seconded by Council Member Henderson, and carried by the following roll to Appoint Mayor Pro Tem Tanaka as the SCAG Alternate:

Ayes: Mayor Cerda, Council Member Henderson and Mayor Pro Tem Tanaka
Noes: Council Members Francis and Love
Absent: None

Mayor Cerda stated again that these appointments are temporary. It's important that we have an Alternate in the event we are sick or unable to be there. Unfortunately, because Council Member Love was temporarily removed from her council assignments, we need to make sure we have representation.

7. **PRESENTATIONS**

7.A Certificate of Recognition to the Winners of the Dr. Martin Luther King Jr. Cultural Committee of Gardena 52nd Annual City-Wide Essay Contest – ***Council Member Francis spoke and the certificates were accepted by 1st Place Winner Bianca Magnifco and 3rd Place Winner Gianna Streeter; 2nd Place Winner Kayden Moore was not in attendance. Each of the winners spoke and appropriate photos were taken; Council Member Francis also mentioned that the 1st place winner received a scholarship award for $400, the 2nd place winner received a scholarship award for $300, and the 3rd place winner received a scholarship award for $200.***

7.B Recognition of Members of the City of Gardena Police Explorer Post #142 for their Successes at the 27th Annual Chandler Tactical Competition in Chandler, Arizona
- Chief Mike Saffell introduced all the Explorers and spoke about all their accomplishments at the event; the certificate was accepted by all members of the City of Gardena Police Explorer Post #142 and appropriate photos were taken; Sargent Tyler Nash spoke about all their hard work and thanked the Council for their continuous support and thanked Chief Saffell and all his advisors for all their support.

7.C Find and Protect Campaign Presentation – ***was presented by Lieutenant Alex Rivera***

7.D Gardena Events Video Presentations

8. **CONSENT CALENDAR**

Mayor Cerda asked if there were any public comments from the public regarding any of the items on the Consent Calendar, City Clerk Semenza responded that we did receive a Public Comment regarding 8.B, which was distributed, and made part of the record.

8.A Waiver of Reading in Full of All Ordinances Listed on this Agenda and that they be Read by Title Only
CONTACT: CITY CLERK

8.B Approve Minutes:
Regular Meeting of the City Council, January 28, 2025
CONTACT: CITY CLERK

8.C. Receive and File Minutes:
Planning and Environmental Quality Commission December 3, 2024
Planning and Environmental Quality Commission January 7, 2025
CONTACT: COMMUNITY DEVELOPMENT

8.D Approval of Warrants/Payroll Register, February 11, 2025
CONTACT: ADMINISTRATIVE SERVICES

February 11, 2025: Wire Transfer: 12894-12903, 12908-12909; Prepay: 179297-179306; Check Numbers: 179307-179471 for Total Warrants issued in the amount of $3,016,745.33; Total Payroll Issued for January 24, 2025: 1,937,388.81

8.E Personnel Report P-2025-3 02-11-25
CONTACT: ADMINISTRATIVE SERVICES

8.F RESOLUTION NO. 6686, Artesia Boulevard Landscaping Assessment District Renewal for the Fiscal Year Commencing July 1, 2025, and Ending June 30, 2026
CONTACT: PUBLIC WORKS

RESOLUTION NO. 6686

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, ARTESIA BOULEVARD LANDSCAPING ASSESSMENT DISTRICT RENEWAL FOR THE FISCAL YEAR COMMENCING JULY 1, 2025, AND ENDING JUNE 30, 2026

8.G RESOLUTION NO. 6687: Consolidated Street Lighting District Renewal for the Fiscal Year Commencing July1, 2025, and Ending June 30, 2026
CONTACT: PUBLIC WORKS

RESOLUTION NO. 6687

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, CONSOLIDATED STREET LIGHTING DISTRICT RENEWAL FOR THE FISCAL YEAR COMMENCING JULY 1, 2025, AND ENDING JUNE 30, 2026

It was moved by Council Member Henderson, and seconded by Mayor Pro Tem Tanaka, and carried by the following roll call vote to Approve the Consent Calendar with the exception of Item 8.B:

Ayes: Council Member Henderson, Mayor Pro Tem Tanaka, Council Members Francis and Love, and Mayor Cerda
Noes: None
Absent: None

9. **EXCLUDED CONSENT CALENDAR**

8.B **CITY CLERK** Approve Minutes:
Regular Meeting of the City Council, January 28, 2025
Council Member Love stated that she is pulling the minutes from the last Council meeting because of the misrepresentation of the minutes referring to the statements made by Ricky Riker and Jonathan Quiroz; she indicated that the

individuals spoke about personal matters that had absolutely nothing to do with City business, she continued to comment that what they spoke about was inaccurate and asked that the minutes be pulled and corrected.

Mayor Cerda stated that she did not see anything wrong with the minutes and made a motion to keep the minutes as they are.

It was moved by Mayor Cerda, and seconded by Mayor Pro Tem Tanaka, and carried by the following roll call vote to Approve the Excluded Consent Calendar:

Ayes: Mayor Cerda, Mayor Pro Tem Tanaka, and Council Member Henderson
Noes: Council Members Francis and Love
Absent: None

10. PLANNING & ENVIRONMENTAL QUALITY COMMISSION ACTION SHEET

10.A FEBRUARY 4, 2025, MEETING

1818 West Redondo Beach Boulevard, the Tire House Progress Report Staff presented an update report on the Tire House Inc.'s progress with meeting the requirements of Site Plan Review #4-15.

Commission Action: The Planning Commission motioned to grant the appeal, made by the Appellant, by a vote of 5- 0. The Planning Commission directed staff to bring back a resolution to approve the appeal at a later Planning Commission meeting.

No action by Council was needed.

10.B FEBRUARY 4, 2025, MEETING

Environmental Assessment #9-21 (SCH 2023060263), Specific Plan #1-23, Site Plan Review #5-21, and Development Agreement #1-21
The Planning Commission reviewed a request for a recommendation to the City Council for the entitlements needed to establish a 1450 Artesia Specific Plan. Environmental Assessment Consideration: Approval of these items requires certification of an Environmental Impact Report (EA #9-21), adoption of a Mitigation Monitoring and Reporting Plan, Findings Relating to Alternatives and Mitigation Measures, and a Statement of Overriding Considerations

Project Location: 1440, 1450, 1462, 1472 Artesia Boulevard, (APN: 6106-036-010, -012, -034, -035, -036, -037)
Project Applicant: 1450 Artesia Acquisition Company LLC (Representative: Brian Sorensen)

Commission Action: The Planning Commission adopted the following resolutions by a 5-0 vote:

- Resolution No. PC 2-25, recommending the City Council certify the FEIR and adopt a Mitigation Monitoring and Reporting Program, Findings Relating to Alternatives and Mitigation Measures, and a Statement of Overriding Considerations for the purposes of the project; and
- Resolution No. PC 3- 25, recommending the City Council approve the 1450 Artesia Specific Plan (SP #1-23), Site Plan Review #5-21, and Development Agreement #1-21.

No action by Council was needed. These items will be brought before the City Council on February 25, 2025.

11. **ORAL COMMUNICATIONS**

1) Michael Brown, owner of Legends Cigar Lounge; came out to ask Council to re-open the cigar lounge moratorium so he could transfer his tobacco license;
2) Travis Hernandez, Library Manager of Masao W. Sato Library, came to give library updates;
3) Paul Randall, representative of Mama Rosa's Pantry; came to give an annual report and thank the Council for allowing them to reopen and serve this community;
4) Thomas Lee, representative of Dink House LA; came to introduce the business and ask Council to help keep their indoor pickleball facility open;
5) Carrie Scott, resident; asked Council what the requirements were for becoming a Mayor Pro Tem; asking if it's a rotation position;
6) Gregg Kelbaugh, pickle ball player from Manhattan Beach, came to speak about keeping the Dink House LA pickle ball facility open;
7) Jessica Dickerson, came to speak about the positive interactions she has had with Council Member Love; and
8) Heidi Walter; avid pickle ball player; came to speak about keeping the Dink House LA pickleball facility open.

12. **DEPARTMENTAL ITEMS - ADMINISTRATIVE SERVICES** – ***No Items***

13. **DEPARTMENTAL ITEMS - COMMUNITY DEVELOPMENT**

13.A Gardena Economic Business Advisory Commission's Facade Improvement Program Guidelines for the Gardena Boulevard Revitalization

City Manager Osorio presented the Staff Report.

GEBAC Chair Steve Rogers presented a PowerPoint.

Mayor Cerda asked if there were any questions or comments.

There was a discussion which included Mayor Cerda, Council Member Francis, Council Member Love and Council Member Henderson regarding the following: 1) the choices from the limited color palettes; 2) if conversations and/or meetings have been had with the business owners, 3) if the program is voluntary for the businesses to participate, and 4) if there was a vision of what you wanted Gardena Blvd to look like. Chair Rogers responded to their questions. Economic Development Manager Jackie Choi

clarified that the copies of the color palettes that Council received were printed incorrectly, and new copies were being distributed.

At 9:10p.m Mayor Cerda announced that we would be taking a 5-minute recess.

Mayor Cerda reconvened the meeting at 9:15 p.m. and stated that we have been given an updated color palette.

Public Speaker: Valerie Barbour, owner of Mr. Bob's Unique Store spoke against the color palettes.

Mayor Cerda then confirmed the colors came from the original booklet that we approved for residential, businesses and new developments moving forward; she also confirmed that the $30,000 grant will be used to paint, provide awning as well as signage to give it a uniform look; based on the Consultant's recommendation, this would make it more appealing to the business owners.

Economic Development Manager Choi explained the process and options that are available to the business owners. She also confirmed that the colors came from the original conceptual design booklet that was approved by Council last September.

It was moved by Council Member Henderson, and seconded by Mayor Pro Tem Tanaka, and carried by the following roll call vote to approve GEBAC's recommendation and the Facade Improvement program guidelines and the color palette for the Gardena Boulevard Revitalization:

Ayes: Council Member Henderson, Mayor Pro Tem Tanaka, and Council Members Francis and Love, and Mayor Cerda
Noes: None
Absent: None

13.B PUBLIC HEARING: RESOLUTION NO. 6694 , Approving Conditional Use Permit #1-24 for a modification to a conditional use permit for an existing high school located within the R-1 zone; Site Plan Review #1-24 for the demolition of a 9,036 SF building and proposing a new 7,500 SF facility in its place; and an Administrative Adjustment to the off -street parking requirements, for a 12% reduction in the number of required spaces for the existing high school located at 2818 Manhattan Beach Blvd.

RESOLUTION NO. 6694

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, APPROVING CONDITIONAL USE PERMIT #1-24 FOR A HIGH SCHOOL LOCATED WITHIN THE SINGLE-FAMILY RESIDENTIAL (R-1) ZONE; SITE PLAN REVIEW #1-24 FOR THE DEMOLITION OF A 9,036 SF BUILDING AND PROPOSING A NEW 7,500 SF FACILITY IN ITS PLACE,TO CONTINUE SERVING THE EXISTING SCHOOL ON THE PROPERTY; AND AN ADMINISTRATIVE ADJUSTMENT TO THE OFFSTREET

PARKING REQUIREMENTS, FOR A 12% REDUCTION IN THE NUMBER OF REQUIRED SPACES FOR THE EXISTING HIGH SCHOOL LOCATED AT 2818 MANHATTAN BEACH BOULEVARD

Environmental Consideration: The proposed project is being considered for a categorical exemption from the provisions of the California Enviornmental Quality Act (CEQA) pursuant to Guideline Sections 15302 and 15303, as a Replacement of an Existing Structure and New Construction of Small Structure project.

APPLICANT: Farnaz Golshani-Flecher, Farnaz Golshan-Flechner, Enviornmental Charter High School

LOCATION: 2818 Manhattan Beach Blvd; APN: (4067-007-005)

City Manager Osorio presented the Staff Report.

Economic Development Manager Amanda Acuna indicated that staff does not have a presentation, only the Applicant will be presenting. She commented about some notes that happened at the Planning Commission meeting regarding an additional condition and some public comments that came in. She indicated that there was a public comment that was received via email tonight, which Council has not yet received a copy; she read the public comment into the record.

A Power Point presentation was made on behalf of the Applicant by Allison Diaz, Founder and Director of Growth & Sustainability. Ms. Diaz indicated that Danielle Kelsick, Cindy Guardado, Lacey Harris, Madison Donatoni and their Architect were all present.

Mayor Cerda then opened the Public Hearing at 9:58p.m.

Public Speakers: Danielle Marquez, Camilla Sosa and Stephen Langley all spoke in favor of the project.

Questions and comments were made by Council Member Francis, Mayor Cerda, Council Member Love and Council Member Henderson. Ms. Diaz, her leadership team, Community Development Manager Acuna, and City Attorney Vasquez answered questions. Community Development Manager Acuna spoke regarding the condition that was added.

Mayor Cerda closed the Public Hearing at 10:41p.m.

It was moved by Mayor Cerda, and seconded by Council Member Love, and carried by the following roll call vote to Adopt Resolution No. 6694 with the amendment if the property hosts an event, the applicant must demonstrate that adequate parking is available, and if there is an agreement they must provide a copy of the agreement to staff:

Ayes: Mayor Cerda, Council Member Love, Mayor Pro Tem Tanaka and Council Member Henderson
Noes: Council Member Francis
Absent: None

13.C PUBLIC HEARING: ORDINANCE NO. 1877 , Amending the Gardena Municipal Code Chapter 18.66 and Section 18.36.020 relating to allowing non-storefront retail medical cannabis delivery services businesses in the M-1 and M-2 zoning districts.

ORDINANCE NO. 1877

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, AMENDING THE GARDENA MUNICIPAL CODE CHAPTER 18.66 AND SECTION 18.36.020 RELATING TO ALLOWING NON-STOREFRONT RETAIL MEDICAL CANNABIS DELIVERY SERVICES BUSINESSES IN THE M-1 AND M-2 ZONING DISTRICTS

Environmental Consideration : Adoption of this ordinance is exempt under the common sense exemption of CEQA Guidelines section 15061(b)(3) where it can be seen that the project will not have any possibility of creating significant effects on the environment.

City Manager Osorio presented the Staff Report.

Mayor Cerda then asked if anyone had asked to speak on this item and if the Council had any comments or questions. There were no public speakers.

Public Hearing opened at 10:45p.m.

Questions and comments were made by Council Member Henderson, Mayor Cerda and Council Member Francis.

City Manager Osorio, Community Development Manager Acuna, City Attorney Vasquez, Community Development Director Greg Tsujiuchi and Police Chief Saffell answered all questions.

Public Hearing closed at 11:10p.m.

It was moved by Mayor Pro Tem Tanaka, and seconded by Council Member Love, and carried by the following roll call vote to Introduce Ordinance No. 1877:

Ayes: Mayor Pro Tem Tanaka, Council Members Love, Henderson and Francis, and Mayor Cerda
Noes: None
Absent: None

Ordinance No. 1877 was introduced by Mayor Pro Tem Tanaka.

14. **DEPARTMENTAL ITEMS - ELECTED & CITY MANAGER'S OFFICES**

14.A ORDINANCE NO. 1880, Amending Sections 14.04.090 and 14.04.220 of Chapter 14.04 – Residential Rent Mediation and Hearings – of the Gardena Municipal Code relating to Notification of Rent Increases

ORDINANCE NO. 1880

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, AMENDING SECTIONS 14.04.090 AND 14.04.220 OF CHAPTER 14.04 – RESIDENTIAL RENT MEDIATION AND HEARINGS – OF THE GARDENA MUNICIPAL CODE RELATING TO NOTIFICATION OF RENT INCREASES

City Manager Osorio presented the Staff Report.

Mayor Cerda then asked if anyone had asked to speak on this item and if the Council had any comments or questions. There were no public speakers and no comments from the Council.

It was moved by Council Member Henderson, and seconded by Council Member Love, and carried by the following roll call vote to Introduce Ordinance No. 1880:

Ayes: Council Member Henderson and Love, Mayor Pro Tem Tanaka, Council Member Francis, and Mayor Cerda
Noes: None
Absent: None

Ordinance No. 1880 was introduced by Council Member Henderson

15. **DEPARTMENTAL ITEMS – POLICE – *No Items***

16. **DEPARTMENTAL ITEMS - PUBLIC WORKS – *No Items***

17. **DEPARTMENTAL ITEMS - RECREATION & HUMAN SERVICES – *No Items***

18. **DEPARTMENTAL ITEMS – TRANSPORATION – *No Items***

19. **COUNCIL ITEMS – *No Items***

20. **COUNCIL DIRECTIVES**

Mayor Cerda

Subject: Name the scoreboard at Freeman Park Ichikawa/Gardena or have Council suggest a name.

Purpose – In recognition of the visit from our Sister City coming in July for a friendly softball game;
Reason – We should go through the formal process/agendize; and
Benefit – This would further our relationship with our Sister City.

Mayor Pro Tem Tanaka seconded it.

21. **CITY MANAGER REMARKS RE: DIRECTIVES / COUNCIL ITEMS - *None***

22. **COUNCIL REMARKS**

1) COUNCIL MEMBER HENDERSON – Since the last meeting he attended his SCAG meeting, they had a joint policy meeting in regard to what they are going to do in our region in response to the wildfires and other issues and they're looking to schedule a legislative trip to Washington DC., since a lot of the SCAG work is centered around transportation, they want to make sure that our six-county groups are still going to have access to the funding to support our initiatives. He had his ICA board meeting or E board meeting to discuss our upcoming conferences from February 21st through the 23rd, he will miss our MLK parade. He likes that parade so he's sad he will miss that. He will be hosting the conference in Santa Barbara. He wants to thank those who wished him well over his sickness this past week and he couldn't get around to the businesses and community members because of his illness so he just had to make phone calls, so it was good to get some updates from everybody.

2) MAYOR PRO TEM TANAKA – He went to the Gardena Police Department's Ladies Hiring Expo which was a really packed event so he's glad that they had that because there were a lot of ladies that were there looking into law enforcement, dispatch, the district attorney's office there were a lot of ladies there interested, and our people put on a great course. He attended the CCOG Transportation Committee meeting. He thinks Public Works people would be very happy because they had a yes-vote request for monies under the CCOG. He attended the Steering Committee meeting. They discussed some future things that are coming up and he did attend Coffee with a Cop today at McDonald's. He is probably going to bring up three deaths that occurred in the last couple of weeks, maybe in the next meeting.

3) COUNCIL MEMBER LOVE – She has no events to report that she attended as stated before she does not attend the city events, but she did want to reiterate rather her disagreement regarding the City Council's correction to the minutes decision made by the Mayor and my colleagues not to correct the minutes. She believes that this is a politically motivated maneuver to set up for an upcoming election. It's important that the printed records reflect accurately what happens in the City Council meetings, and the minutes that were read from the January 28th meeting, had no relevance to city business at all. It's just unacceptable for the Council to allow the misuse of public forums for

personal disputes that have no city government. The integrity of the public records. should not be compromised for political gamesmanship so she hopes that her colleagues can get back to doing what the community is asking us to do, versus swaying to the left or right serving any and everybody other than what they're asking us for. She has sat here on this Council many meetings and she has heard our constituents ask us to do things that we had the power and authority to do, and it is kind of disappointing to see the way some of her colleagues vote.

4) MAYOR CERDA – Since the last meeting she only attended a couple of things, first was the launch of the new Bolt ride that is in our community here, and it was really fun. She had a really great time out there, and she thanked her colleagues for attending. She thanked all the residents who came out there and mentioned that the first 10 rides are free up until February the 28th. Also, besides that on a sad note, she attended the funeral services for one of our residents, Ms.Essie Edwards, she was somebody who was commonly always at our Coffee with a Cop and over the past couple of years, especially since COVID, we didn't see her there. She was a resident that we adjourned in memory of, she was 98 years old, and she loved coming to Coffee with a Cop. She attended her funeral services and gave some remarks on behalf the City and of Chief Saffell, who was out of town; we always appreciate our residents always coming out to just support all of our events. She attended the Okinawa Association of America's 2025 New Year's party; it was a great event as always and she was happy that she was able to be there along with our Assembly Member Al Muratsuchi. Then lastly, she attended the Los Angeles County City Selection Committee meeting as we chose a new member for AQMD and the person who was chosen was Brenda Olmos from the City of Paramount. She stated she was not able to attend more events because she went on vacation, something she never does and so, unfortunately, she apologized to people who were texting her all weekend she was out of cell phone range, so she couldn't respond. Last thing, she mentioned here that it has been alluded to several times about the unfair treatment on this Council; things alluding to that she is doing that are politically motivated; she continued to say as elected officials, our only job is to sit here and be leaders of this community and things that are important to them is making sure we get these resolutions; these things changed here so businesses that are trying to come here, just to do our job and again we can't control anybody who wants to come up here and talk during oral communications; everybody has that right it's their First Amendment right they can talk about whatever they want to talk about during oral communications; she has even heard of situations where people got up during oral communication and sang a song, so it's their right to do that, and she doesn't think in all my years of attending Council meetings for over 25 years and her 15 years being on the Council, has she never seen a situation where a City Council member because of whatever activities have happened outside Council meetings somebody had to come up and talk about some behavior that was exhibited to the point that it had to spill over into our council meeting. You know people come here and they do that, and she doesn't think any of us have the power to control anybody to do that. It just is what it is so to sit here and say that any of us here are pushing this or you know trying to make things hard for somebody is crazy. It doesn't make any sense at all; she has seen her name all over social media, lies about her supposedly all these things that she is trying to orchestrate she thinks it needs to stop. She thinks at the end of the day the facts speak for what they are in previous situations. as it related to the investigation that was done here, situations happened with the Council Member that warrant our employees to report it, because they felt they couldn't do their

job professionally and an investigation had to happen. It had nothing to do with any of us. We didn't hear about it until it was presented to us, and we have the right if we want to either vote to let it be read out or not, that was our right to do and still at the same time this costs our city $20,000 just for the investigation that's not including the legal fees not to mention it left us open to the exposure that either one of these employees want to sue the city, we could be out of a lot more money. So, these were just the facts, this is just the way it happened. To sit here and try to make it seem like her colleague was a victim here, you need to look at what initially happened, in the beginning, and it had nothing to do with us none of us have been involved in this so with that she just wants to set the record straight. Again, as you know as it relates to all of that we're just trying to do our job and conduct business and you know everything that she does and she can't speak for all here, but you know we're just having the business at hand as it relates to the City of Gardena, we have no gain in any of this politically, emotionally or anything like that, it just is what it is.

5) COUNCIL MEMBER FRANCIS –First of all, she thanked everybody who's been watching from home, and for those who came out tonight for whatever reason thank you for coming out and participating in our City Council meeting or oral communication comments. It's important, it's nice to look out and see people staying out there for change; we love the staff, but we see you all the time but anyway thank you. Although you may or may not agree with some of the decisions that we make, if you want to talk about something, come see her she'll be more than happy to talk with you. She is excited about this Find and Protect campaign, it's going to help a whole lot of folks, and she is glad we're doing a lot of good things. We're doing a lot of good stuff so we'll make sure in somewhat you see down here we don't always agree on everything we're not supposed to but her goal is to make sure that we make the best decisions for the City of Gardena because she lives here too and she has got to live with some of these decisions hopefully long after the City Council is over and she has to live with some of this stuff. So, we're going to try and make the best decisions that works for the City of Gardena. She wants to remind everybody to come out to our annual Dr. Martin Luther King Jr. Commemorative Parade it was really scheduled for January 15th, but because of the fires and it was rescheduled for February 22nd that's the last Saturday of this month; it starts at Serra High School and then it proceeds down Van Ness Ave. to Rowley Park and at the end of the parade will have a Battle of the Bands and this is always a lot of fun and our Grand Marshall is AC Green, a former Laker, our Community Grand Marshall is Senator Steven Bradford whose done lots for our community, he grew up here, and our Hometown Hero is Dylan Andrews; and she understands he has a game that weekend he won't be able to attend. She is sorry to hear that, but he's still our hometown hero; this young man grew up in our city, played right here in our gym, and now he's at UCLA doing great things for us, and not only that but he came back and did a basketball clinic for our young people, he gave them laptops, so whether he's in a parade or not he's still our hometown hero. She also wanted to say congratulations to our essay contest winners; they wrote some very good essays; our future is in good hands based on some of the essays she had read with our young people, so congratulations to Kayden Moore, Giana Streeter, and Bianca Magnifico our first place winner. As we said each got a certificate, first place received a scholarship award for $400.00 second place winner received a scholarship award for $300.00, and the third place winner received a scholarship award for $200. Also, if you are graduating high school seniors, be on the lookout for the Author Johnson College Scholarship program, it's named after the founder Dr. Martin Luther King Jr. Cultural

Committee and you should hear about that around April and especially thank you to Mr. Martinez and Ms. Kim from Gardena High School for supporting our students they're the reason that we had so many submissions and the reason that we had such great essays, and some wonderful young people came out. So again, thank you everybody we'll see you, looking forward to seeing you all in the parade hopefully the weather will agree, and it won't be too cold and come on out support us and she knows there's a lot of crazy things going on, hear a lot of stuff on the news, and all this about this, that, and the other, but stay faithful, better days are coming, it's been promised.

23. **ANNOUNCEMENT(S)**

1) Western Avenue Railroad Crossing Improvement Project – Closure of Western Avenue between 166th to 168th from February 28th to March 3rd;
2) Co-Ed Youth Soccer & Futsol Registration period February 9th to March 8, 2025;
3) Semi-Annual Clean-up Day, one day only; Free for all Gardena residents; see flyer for event schedule;
4) Dr. Martin Luther King Jr. Commemorative Parade and Celebration (new date) February 22, 2025 from 10:00a.m to 3:00p.m;
5) Glow in the Dark Kickball Game (new date) February 22, 2025 at Rush Gym;
6) Bollywood Candlelight Dinner, February 27, 2025 at the Nakaoka Community Center; Check in 4:30p.m.; Dinner served at 5:15p.m.;
7) Glow in the Dark Bingo, February 28, 2025 from 6:00-8:00p.m. at the Nakaoka Community Center;
8) Gardena Police Department Community Academy, 4 sessions, starts March 22, 2025 and goes through April 12, 2025; see flyer for more information; and
9) Gardena Citizen Day Care Center, providing a supportive and enriching environment for seniors with Alzhemer's, Dementia, or related disabilities; see flyer for more information.

24. **REMEMBRANCES** - ***None***

25. **ADJOURNMENT**

At 11:35 p.m. Mayor Cerda Adjourned the Gardena City Council Meeting to the Closed Session portion of the City Council Meeting at 7:00 p.m. and the Regular City Council Meeting at 7:30 p.m. on February 11, 2025.

MINA SEMENZA
City Clerk of the City of Gardena and
Ex-officio Clerk of the Council

APPROVED:

_____
Tasha Cerda, Mayor

By:_____
Becky Romero, Deputy City Clerk

MEMORANDUM

TO: Honorable Mayor and City Council

FROM: City Treasurer's Office

DATE: February 20, 2025

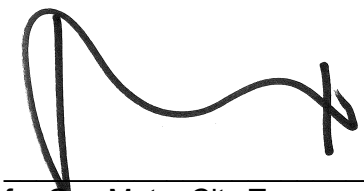
SUBJECT: WARRANT REGISTER
PAYROLL REGISTER

February 25, 2025 TOTAL WARRANTS ISSUED: $1,936,751.92

Wire Transfer: 12904-12907, 12910-12913
Prepay: 179472-179480
Check Numbers: 179481-179708
Checks Voided:

Total Pages of Register: 26

February 21, 2025 TOTAL PAYROLL ISSUED: $2,432,800.16



for Guy Mato, City Treasurer

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
12904	1/22/2025	112326 LWP CLAIMS SOLUTIONS INC.	012225		WORKERS' COMP CLAIMS	100,000.00
					Total :	**100,000.00**
12905	1/31/2025	112401 PINNACLE CLAIMS MANAGEMENT INC	012825		HEALTH INSURANCE CLAIMS	59,850.25
					Total :	**59,850.25**
12906	1/31/2025	112401 PINNACLE CLAIMS MANAGEMENT INC	013125		HEALTH INSURANCE CLAIMS	28,093.40
					Total :	**28,093.40**
12907	2/3/2025	112326 LWP CLAIMS SOLUTIONS INC.	020325		WORKERS' COMP CLAIMS	35,311.62
					Total :	**35,311.62**
12910	2/6/2025	112401 PINNACLE CLAIMS MANAGEMENT INC	020525		HEALTH INSURANCE CLAIMS	6,439.60
					Total :	**6,439.60**
12911	2/6/2025	112441 ANTHEM BLUE CROSS LIFE &, HEALTH INSUF	365993927170		HEALTH INSURANCE CLAIMS	23,725.03
					Total :	**23,725.03**
12912	2/6/2025	303348 EMPLOYMENT DEVELOPMENT, DEPARTMENT	OCT-DEC 2024		SUI QUARTER ENDED 12/31/24	22,914.00
					Total :	**22,914.00**
12913	2/11/2025	112401 PINNACLE CLAIMS MANAGEMENT INC	021025		HEALTH INSURANCE CLAIMS	54,463.16
					Total :	**54,463.16**
179472	2/11/2025	112177 ADVANCE AUTO PARTS	8655423450575		GTRANS AUTO PARTS	15.73
					Total :	**15.73**
179473	2/11/2025	112177 ADVANCE AUTO PARTS	8655423450576		GTRANS AUTO PARTS	15.73
					Total :	**15.73**
179474	2/11/2025	112177 ADVANCE AUTO PARTS	8655424250785		GTRANS AUTO PARTS	641.03
					Total :	**641.03**
179475	2/11/2025	112177 ADVANCE AUTO PARTS	8655424350822		GTRAN AUTO PARTS	301.39
					Total :	**301.39**
179476	2/11/2025	112177 ADVANCE AUTO PARTS	8655425716458		GTRANS AUTO PARTS	36.68

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179476	2/11/2025	112177 112177 ADVANCE AUTO PARTS	(Continued)		**Total :**	**36.68**
179477	2/11/2025	112177 ADVANCE AUTO PARTS	8655426251280		GTRANS AUTO PARTS	187.56
					Total :	**187.56**
179478	2/20/2025	113249 SATO, KATHY	24-37PW		FINAL SETTLEMENT	669.00
					Total :	**669.00**
179479	2/20/2025	113266 SHAW MEDIATIONS	25.399b		MEDIATION SERVICES	1,312.00
					Total :	**1,312.00**
179480	2/20/2025	113267 DEVON BUSH AND B & D LAW, GROUP APLC	20-08PD		FINAL SETTLEMENT	74,698.20
					Total :	**74,698.20**
179481	2/25/2025	113097 148TH GARDENA LLC	RA-SPIVEY 03/2025		RENTAL ASSISTANCE PROGRAM	420.00
					Total :	**420.00**
179482	2/25/2025	104606 2 BROTHERS TIRES & WHEELS	30340		PD VEHICLE TIRE SERVICES	20.00
			30355		PD VEHICLE TIRE SERVICES	44.00
					Total :	**64.00**
179483	2/25/2025	110507 A-1 FENCE COMPANY	23018	024-01118	ROWLEY PARK TENNIS COURT REPAIF	4,250.00
					Total :	**4,250.00**
179484	2/25/2025	107751 A-A BACKFLOW TESTING &, MAINTENANCE	90217		BACKFLOW ASSEMBLY REPAIR	1,259.00
					Total :	**1,259.00**
179485	2/25/2025	110028 ACCENTURE INFRASTRUCTURE, AND CAPITA	30246	024-01108	ARTESIA BLVD. STREET IMPROVEMEN	10,457.50
					Total :	**10,457.50**
179486	2/25/2025	111853 ACCESS	11065085		PD SHREDDING SERVICES	340.00
			11117695		PD SHREDDING SERVICES	170.00
			11271115		PD SHREDDING SERVICES	140.00
			11347299		PD SHREDDING SERVICES	170.00
			11405033		PD SHREDDING SERVICES	170.00
					Total :	**990.00**
179487	2/25/2025	101748 AFTERMARKET PARTS COMPANY LLC, THE	83597065		DRIVER PROTECTIVE BARRIERS FOR	126,058.50

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179487	2/25/2025	101748 AFTERMARKET PARTS COMPANY LLC, THE	(Continued)			
				037-10352		
					Total :	**126,058.50**
179488	2/25/2025	101748 AFTERMARKET PARTS COMPANY LLC, THE	83627199	037-10360	GTRANS AUTO PARTS	798.76
					Total :	**798.76**
179489	2/25/2025	113253 AHMAD, JACQUELINE	PERMIT #50022-1212		PERMIT DEPOSIT REFUND - 13617 S. M	5,000.00
					Total :	**5,000.00**
179490	2/25/2025	112271 AIRGAS USA, LLC	5513532157		GTRANS FACILITY SUPPLIES	32.14
			5514241420		GTRANS FACILITY SUPPLIES	7.64
			9156182403		GTRANS FACILITY SUPPLIES	64.15
					Total :	**103.93**
179491	2/25/2025	112192 AJ KIRKWOOD & ASSOCIATES	12468168		SERVICE CALL - CARD READER	937.50
					Total :	**937.50**
179492	2/25/2025	112544 ALCARAZ, TIFFANY	020525		MGMT ANNUAL HEALTH BENEFIT	407.00
					Total :	**407.00**
179493	2/25/2025	110183 ALLIANT INSURANCE SERVICES, INC.	2974274		OPEN ENROLLMENT SUPPLIES	908.12
					Total :	**908.12**
179494	2/25/2025	101628 AQUA-FLO SUPPLY	SI2473828		PARK MAINT SUPPLIES	207.80
			SI2474368		PARK MAINT SUPPLIES	73.90
			SI2476310		PARK MAINT SUPPLIES	95.38
					Total :	**377.08**
179495	2/25/2025	108625 ARAD OIL INC.	JANUARY 2025 PD		CAR WASH	192.00
					Total :	**192.00**
179496	2/25/2025	101459 ASBURY ENVIRONMENTAL SERVICES	I500-01172716		HAZARDOUS WASTE DISPOSAL SERVI	165.00
			I500-01172717		HAZARDOUS WASTE DISPOSAL SERVI	448.59
			I500-01172718		HAZARDOUS WASTE DISPOSAL SERVI	267.59
			I500-01175311		HAZARDOUS WASTE DISPOSAL SERVI	142.68
					Total :	**1,023.86**

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179497	2/25/2025	104687 AT&T	22974165		TELEPHONE	1,603.22
			22980948		TELEPHONE	901.67
					Total :	**2,504.89**
179498	2/25/2025	111170 AT&T FIRSTNET	287290885074X021025	023-01559	CITYWIDE CELL PHONE ACCT #287290	1,641.91
			287293416290X021025	023-01559	PD CELL PHONE ACCT #287293416290	2,013.57
			287295242065X021025	023-01559	PD CELL PHONE ACCT #287295242065	286.84
			287298156560X021025	023-01559	CITYWIDE CELL PHONE ACCT #287298	1,751.65
			287303490376X021025	023-01559	BUS CELL PHONE ACCT #28730349037	1,997.46
					Total :	**7,691.43**
179499	2/25/2025	100474 AT&T LONG DISTANCE	021225		TELEPHONE	57.66
					Total :	**57.66**
179500	2/25/2025	100964 AT&T MOBILITY	287275680401X020125		PD CELL PHONE ACCT #287275680401	147.98
			828667974X02162025		CM CELL PHONE ACCT #828667974	86.46
					Total :	**234.44**
179501	2/25/2025	109824 AXON ENTERPRISE INC.	106831		PD PROGRAM SUPPLIES	22.05
					Total :	**22.05**
179502	2/25/2025	113174 AXXESS DOOR CORP	15389		AUTOMATIC SLIDING DOOR PARTS	113.71
					Total :	**113.71**
179503	2/25/2025	112240 AZ HOLDINGS LLC	RA-BAILEY 03/2025		RENTAL ASSISTANCE PROGRAM	537.50
					Total :	**537.50**
179504	2/25/2025	110686 AZTECH ELEVATOR COMPANY	AZ18684		ELEVATOR MAINTENANCE - GTRANS	285.00
			AZ18968	037-10378	ELEVATOR MAINTENANCE - GTRANS	285.00
			AZ19102	037-10378	ELEVATOR MAINTENANCE - GTRANS	285.00
			AZ19192	037-10378	ELEVATOR MAINTENANCE - GTRANS	285.00
			AZ19271	037-10378	ELEVATOR MAINTENANCE - GTRANS	285.00
			AZ19455	037-10378	ELEVATOR MAINTENANCE - GTRANS	160.00
			AZ19456	037-10378	ELEVATOR MAINTENANCE - GTRANS	160.00
			AZ19478	037-10378	ELEVATOR MAINTENANCE - GTRANS	83.33
					Total :	**1,828.33**
179505	2/25/2025	105853 BABCOCK ASSOCIATES, LTD	RA-SMITH 03/2025		RENTAL ASSISTANCE PROGRAM	276.75

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179505	2/25/2025	105853 105853 BABCOCK ASSOCIATES, LTD	(Continued)		**Total :**	**276.75**
179506	2/25/2025	112782 BARR, LASHELLE	0183		ENTERTAINMENT SERVICES - FIVE ST/	450.00
					Total :	**450.00**
179507	2/25/2025	106568 BARTS CARTS & THE MARGARITA, MAN	55846		2025 FIVE STAR BUS ROADEO SUPPLI	125.00
					Total :	**125.00**
179508	2/25/2025	109904 BASTIAN, JEREMY	GEPCO 2025		GEPCO LOAN	2,000.00
					Total :	**2,000.00**
179509	2/25/2025	113094 BEACH FRONT PROPERTIES	RA-SANCHEZ 03/2025		RENTAL ASSISTANCE PROGRAM	368.75
					Total :	**368.75**
179510	2/25/2025	103641 BECNEL UNIFORMS	76519		BUS UNIFORM SUPPLIES	411.17
			77300		BUS UNIFORM SUPPLIES	594.50
			77463		BUS UNIFORM SUPPLIES	703.16
			77464		BUS UNIFORM SUPPLIES	702.68
			77638		BUS UNIFORM SUPPLIES	27.32
			77767		BUS UNIFORM SUPPLIES	457.00
					Total :	**2,895.83**
179511	2/25/2025	110675 BGB DESIGN GROUP, INC	104395	024-00968	ROWLEY PARK BB COURT REHAB, JN5	4,220.00
					Total :	**4,220.00**
179512	2/25/2025	100600 BLAINE TECH SERVICES, INC.	PERMIT #16543		PERMIT DEPOSIT REFUND - 1733 W. AI	1,000.00
					Total :	**1,000.00**
179513	2/25/2025	102331 BLUE DIAMOND MATERIALS	3983273		STREET MAINT SUPPLIES	479.60
					Total :	**479.60**
179514	2/25/2025	112722 BP FORD OF LONG BEACH	FOCS725065		2022 FORD INTRCPTR #1630465 SERVI	25.81
			FOCS725175		2022 FORD INTRCPTR #1630457 SERVI	108.94
					Total :	**134.75**
179515	2/25/2025	113055 CADMAN GROUP	RA-LEE 03/2025		RENTAL ASSISTANCE PROGRAM	538.50
					Total :	**538.50**

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179516	2/25/2025	103029 CALIFORNIA FENCE & SUPPLY	M15396		PARK MAINT SUPPLIES	47.25
			M15398		PARK MAINT SUPPLIES	56.94
					Total :	**104.19**
179517	2/25/2025	103383 CALPORTLAND	96522033		STREET MAINT SUPPLIES	1,169.40
					Total :	**1,169.40**
179518	2/25/2025	110313 CALTIP	94-2025-JANUARY	037-10356	INSURANCE CLAIMS DEDUCTIBLE - JA	143,828.73
					Total :	**143,828.73**
179519	2/25/2025	110538 CANNON COMPANY	90947	024-00821	RBB ARTERIAL IMPROVEMENT PROJE	19,870.01
					Total :	**19,870.01**
179520	2/25/2025	823003 CARL WARREN & COMPANY	JANUARY 2025		CLAIMS MANAGEMENT	4,600.65
					Total :	**4,600.65**
179521	2/25/2025	803420 CARPENTER, ROTHANS & DUMONT, LAW OFF	46638		LEGAL SERVICES	46.00
			47668		LEGAL SERVICES	414.00
			47673		LEGAL SERVICES	23.00
			48071		LEGAL SERVICES	48.00
			48073		LEGAL SERVICES	750.72
			48074		LEGAL SERVICES	13,246.25
			48076		LEGAL SERVICES	1,181.94
			48078		LEGAL SERVICES	1,621.65
			48079		LEGAL SERVICES	316.15
			48080		LEGAL SERVICES	1,032.84
			48081		LEGAL SERVICES	92.00
			48342		LEGAL SERVICES	280.00
			48344		LEGAL SERVICES	46.00
			48345		LEGAL SERVICES	161.00
			48346		LEGAL SERVICES	756.50
			48349		LEGAL SERVICES	770.00
			48351		LEGAL SERVICES	682.50
			48352		LEGAL SERVICES	233.00
			48353		LEGAL SERVICES	955.95
			48354		LEGAL SERVICES	115.00
			48356		LEGAL SERVICES	253.00

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179521	2/25/2025	803420 CARPENTER, ROTHANS & DUMONT, LAW OFF	(Continued)			
			48447		LEGAL SERVICES	1,313.09
			48547		LEGAL SERVICES	519.00
			48549		LEGAL SERVICES	317.14
			48550		LEGAL SERVICES	276.00
			48552		LEGAL SERVICES	3,312.71
			48554		LEGAL SERVICES	780.00
			48555		LEGAL SERVICES	92.00
			48556		LEGAL SERVICES	1,480.76
			48557		LEGAL SERVICES	391.00
			48560		LEGAL SERVICES	3,046.00
					Total :	**34,553.20**
179522	2/25/2025	113062 CBA PROPERTY MANAGEMENT, INC	RA-BRUCE 03/2025		RENTAL ASSISTANCE PROGRAM	343.75
					Total :	**343.75**
179523	2/25/2025	110605 CHANDLER ASSET MANAGEMENT	2501GARDENA	013-00033	INVESTMENT MGMT SERVICES - JANU	2,649.13
					Total :	**2,649.13**
179524	2/25/2025	113048 CHANG, JULIA C	RA-FRANCO 03/2025		RENTAL ASSISTANCE PROGRAM	412.50
					Total :	**412.50**
179525	2/25/2025	108378 CHARLES E. THOMAS COMPANY INC.	115969	037-10367	DESIGNATED OPERATOR SERVICE	222.21
					Total :	**222.21**
179526	2/25/2025	104126 CHARTER COMMUNICATIONS	187854501020725	023-01555	CABLE & BACKUP INTERNET SERVICE	4,263.05
					Total :	**4,263.05**
179527	2/25/2025	112352 CIRCLE, THE	201332		TOSHIBA 5525AC COPIER USAGE - PD	595.81
					Total :	**595.81**
179528	2/25/2025	312105 CITY OF LOS ANGELES	MA250000036		TRAFFIC SIGNAL MAINTENANCE & OPI	889.24
					Total :	**889.24**
179529	2/25/2025	111534 CLEAN ENERGY	CEP12731636		OIL PGI ISO 100 55 GALLON DRUM	3,656.78
					Total :	**3,656.78**
179530	2/25/2025	110122 COMMANDSTAT ANALYTICS, INC	243		DATABASE MGMT & REPORTING PREP	2,195.88

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179530	2/25/2025	110122 110122 COMMANDSTAT ANALYTICS, INC	(Continued)		**Total :**	**2,195.88**
179531	2/25/2025	103274 CONTRERAS, LUIS	12/08-12/13		POST MANAGEMENT SEMINAR - MODU	250.00
					Total :	**250.00**
179532	2/25/2025	109913 COSTAR REALTY INFORMATION INC.	121766429	032-00174	COSTAR SUITE - FEBRUARY 2025	939.14
					Total :	**939.14**
179533	2/25/2025	105935 CRAFCO, INC.	9403379304		STREET MAINT SUPPLIES	1,583.93
			9403380024		STREET MAINT SUPPLIES	771.75
					Total :	**2,355.68**
179534	2/25/2025	103353 CRM COMPANY, LLC.	LA26433		SCRAP TIRE DISPOSAL FEE	69.50
			LA26447		SCRAP TIRE DISPOSAL FEE	69.50
			LA26468		SCRAP TIRE DISPOSAL FEE	69.50
			LA26469		SCRAP TIRE DISPOSAL FEE	69.50
					Total :	**278.00**
179535	2/25/2025	203317 CUFF, CHRISTOPHER	GEPCO 2025		GEPCO LOAN	2,000.00
					Total :	**2,000.00**
179536	2/25/2025	111874 DAVID VOLZ DESIGN LANDSCAPE, ARCHITEC	422967 REV	024-01009	CIVIC CENTER LIGHTING PROJECT, JN	5,348.05
					Total :	**5,348.05**
179537	2/25/2025	105951 DECALS BY DESIGN, INC.	18611		GTRANS BUS DECALS	495.19
			19058	037-10408	DECALS FOR BOLT MICROTRANSIT VE	3,305.78
					Total :	**3,800.97**
179538	2/25/2025	104222 DELL MARKETING L.P.	10798099314	023-01580	ANNUAL MICROSOFT LICENSE RENEW	202,019.23
					Total :	**202,019.23**
179539	2/25/2025	104222 DELL MARKETING L.P.	10798099306	023-01581	MICROSOFT LICENSING ADDITIONAL L	11,186.40
			10798987011	023-01581	MICROSOFT LICENSING ADDITIONAL L	10,780.00
			10799859510	023-01583	MICROSOFT ADDITIONAL 70 F3 LICENS	2,920.40
					Total :	**24,886.80**
179540	2/25/2025	111712 DUNG TANG	RA-PHAM 03/2025		RENTAL ASSISTANCE PROGRAM	450.00

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179540	2/25/2025	111712 111712 DUNG TANG	(Continued)		**Total :**	**450.00**
179541	2/25/2025	110534 EL DORADO NATIONAL	90878032		GTRANS BUS VEHICLE SUPPLIES	3,466.97
					Total :	**3,466.97**
179542	2/25/2025	105418 EMPIRE CLEANING SUPPLY	S6893123	034-00666	CUSTODIAL SUPPLIES	924.46
			S6893139	034-00666	CUSTODIAL SUPPLIES	1,298.76
					Total :	**2,223.22**
179543	2/25/2025	106459 ENTERPRISE FM TRUST	FBN5251323	023-01567	ENTERPRISE LEASE - FEBRUARY 2025	8,972.16
			FBN5262000	023-01567	ENTERPRISE LEASE - FEBRUARY 2025	11,247.54
				023-01572		
					Total :	**20,219.70**
179544	2/25/2025	106129 FEDEX	8-771-43246		SHIPPING SERVICES	136.59
					Total :	**136.59**
179545	2/25/2025	103083 FIRST ADVANTAGE LNS OCC HEALTH, SOLUT	2503422501		DRUG TEST/ADMIN FEE	323.89
					Total :	**323.89**
179546	2/25/2025	113038 FIRSTPRO PROPERTY MANAGEMENT	RA-RIVERS 03/2025		RENTAL ASSISTANCE PROGRAM	440.00
					Total :	**440.00**
179547	2/25/2025	108974 FLEX TECHNOLOGIES, INC.	GMN-I056123		GTRANS AUTO SUPPLIES	346.96
					Total :	**346.96**
179548	2/25/2025	112329 FM THOMAS AIR CONDITIONING INC	47805		HVAC REPAIRS FOR JUSTIN PLAZA	1,412.34
					Total :	**1,412.34**
179549	2/25/2025	106465 FOX FIRST AID & SAFETY INC	74557		STREET MAINT SUPPLIES	66.15
			74561		STREET MAINT SUPPLIES	49.61
			74614		PARK MAINT SUPPLIES	22.05
					Total :	**137.81**
179550	2/25/2025	113220 FRANCO, LINDA M.	RA-JOHNSON 03/2025		RENTAL ASSISTANCE PROGRAM	918.00
					Total :	**918.00**
179551	2/25/2025	103134 FRANCO'S UPHOLSTERY &, ACCESSORIES	17200		REUPHOLSTER VEHICLE SEAT	175.00

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179551	2/25/2025	103134 103134 FRANCO'S UPHOLSTERY &, ACCESSORI (Continued)			**Total :**	**175.00**
179552	2/25/2025	113250 FUNK, DAVID	PERMIT #50022-1542		PERMIT DEPOSIT REFUND - 1203 W 14	7,500.00
			PERMIT #50022-1543		PERMIT DEPOSIT REFUND - 1207 W. 1⁴	7,500.00
					Total :	**15,000.00**
179553	2/25/2025	107011 GARDENA VALLEY NEWS	00149654		NOTICE OF PUBLIC HEARING - ORDIN/	154.00
			00149655		NOTICE OF PUBLIC HEARING - CUP #1	210.00
			00149816		SUMMARY OF ORDINANCE NO. 1878	206.50
					Total :	**570.50**
179554	2/25/2025	619005 GAS COMPANY, THE	058-854-91703 020725		CNG FUEL	1,309.96
					Total :	**1,309.96**
179555	2/25/2025	111964 GCAP SERVICES, INC.	32	037-10116	CNG PROJECT LABOR COMPLIANCE &	497.50
					Total :	**497.50**
179556	2/25/2025	619004 GOLDEN STATE WATER CO.	020525		WATER	10,513.64
					Total :	**10,513.64**
179557	2/25/2025	107513 GRAINGER	9385114591		GTRANS FACILITY SUPPLIES	38.42
			9386844469		GTRANS FACILITY SUPPLIES	17.10
			9390033539		GTRANS FACILITY SUPPLIES	125.91
					Total :	**181.43**
179558	2/25/2025	112374 GRIFFIN STRUCTURES, INC.	GSI-GCASC-25	024-00910	AQUATIC & SENIOR CENTER JN978	23,322.10
					Total :	**23,322.10**
179559	2/25/2025	113136 GRUBER AND LOPEZ, INC.	4791	023-01576	AUDIT SERVICES FY 2023/2024	4,900.00
					Total :	**4,900.00**
179560	2/25/2025	113096 GUNAWAN, WILLIAM	RA-DUFFEY 03/2025		RENTAL ASSISTANCE PROGRAM	748.75
					Total :	**748.75**
179561	2/25/2025	111484 HANNA, BROPHY, MACLEAN,, MCALEER & JEI	2251858		PROFESIONAL SERVICES	75.00
					Total :	**75.00**
179562	2/25/2025	208114 HASSOLDT, MATTHEW S.	01/12-01/16		POST MANAGEMENT SEMINAR - MODU	200.00

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179562	2/25/2025	208114 HASSOLDT, MATTHEW S.	(Continued)			
			12/15-12/19		POST MANAGEMENT SEMINAR - MODU	200.00
					Total :	**400.00**
179563	2/25/2025	112076 HERNANDEZ, ROSA	003 02/12/25		INTERN SERVICES - 02/03-02/12/25	1,260.00
					Total :	**1,260.00**
179564	2/25/2025	108434 HOME DEPOT CREDIT SERVICES	0224322		BLDG MAINT SUPPLIES	260.61
			0520657		PD PROGRAM SUPPLIES	33.34
			1914281		GTRANS MAINT SUPPLIES	9.12
			2542349		REC PROGRAM SUPPLIES	137.93
			2589649		REC PROGRAM SUPPLIES	166.65
			3170084		GTRANS MAINT SUPPLIES	64.41
			3353775		BLDG MAINT SUPPLIES	308.84
			3703938		GTRANS MAINT SUPPLIES	4.77
			3900183		PD PROGRAM SUPPLIES	65.04
			4948176		REC PROGRAM SUPPLIES	67.64
			5492131		REC PROGRAM SUPPLIES	235.94
			5521873		REC PROGRAM SUPPLIES	275.87
			6530966		PARK MAINT SUPPLIES	38.30
			6724998		GTRANS MAINT SUPPLIES	105.20
			7530788		SIGNS/ SIGNALS SUPPLIES	213.78
			7903601		GTRANS MAINT SUPPLIES	25.31
			9525029		PD PROGRAM SUPPLIES	86.45
					Total :	**2,099.20**
179565	2/25/2025	113218 HORVITZ & LEVY LLP	101149		PROFESSIONAL SERVICES	15,403.00
					Total :	**15,403.00**
179566	2/25/2025	106633 HOUSE OF TROPHIES & AWARDS INC	38703	037-10430	2025 FIVE STAR ROADEO TROPHIES	6,044.40
					Total :	**6,044.40**
179567	2/25/2025	111696 INDICATOR REEF, LLC	RA-BRYANT 03/2025		RENTAL ASSISTANCE PROGRAM	625.00
					Total :	**625.00**
179568	2/25/2025	111696 INDICATOR REEF, LLC	RA-QUIROZ 03/2025		RENTAL ASSISTANCE PROGRAM	376.25
					Total :	**376.25**

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179569	2/25/2025	105729 INSITUFORM TECHNOLOGIES	PERMIT #18136		PERMIT DEPOSIT REFUND - W ROSEC	1,000.00
					Total :	**1,000.00**
179570	2/25/2025	110222 INTERAMERICAN MOTOR, LLC	065-055669		GTRANS AUTO PARTS	48.62
			065-12777		GTRANS AUTO PARTS	101.87
			065-55659		GTRANS AUTO PARTS	8.10
			109-598537		GTRANS AUTO PARTS	122.18
			110715448		GTRANS AUTO PARTS	482.86
					Total :	**763.63**
179571	2/25/2025	111593 INTER-CON SECURITY SYSTEMS INC	BD0416708	037-10420	GTRANS SECURITY SERVICES - JANU/	7,400.32
			BD0416723		GTRANS SECURITY SERVICES- JANUA	30.74
			BD0424331	037-10312	GTRANS SECURITY SERVICES - DECE	7,083.64
					Total :	**14,514.70**
179572	2/25/2025	111715 ISLAND BREEZE APARTMENTS	RA-HERNANDEZ 03/2025		RENTAL ASSISTANCE PROGRAM	463.00
					Total :	**463.00**
179573	2/25/2025	110733 J & S PROPERTY MANAGEMENT AND, MAINTE	8665		LANDSCAPE MAINTENANCE SERVICE	2,112.66
			8952		LANDSCAPE MAINTENANCE SERVICE	2,089.65
					Total :	**4,202.31**
179574	2/25/2025	113057 KARON MANAGEMENT SERVICES	RA-PHELPS 03/2025		RENTAL ASSISTANCE PROGRAM	412.50
					Total :	**412.50**
179575	2/25/2025	113041 KELLUM, PATRICIA	RA-MASON 03/2025		RENTAL ASSISTANCE PROGRAM	337.50
					Total :	**337.50**
179576	2/25/2025	211429 KEMP, TAMARA	JAN-FEB 2025		DANCE INSTRUCTOR	1,360.00
					Total :	**1,360.00**
179577	2/25/2025	113116 KOBASHIGAWA, ANDREW	RA-TAPIA 03/2025		RENTAL ASSISTANCE PROGRAM	425.00
					Total :	**425.00**
179578	2/25/2025	108349 KOSMONT COMPANIES	2311.8-006		CONSULTING SERVICES - RENTAL GUI	182.00
					Total :	**182.00**
179579	2/25/2025	112145 L.A. COUNTY FIRE DEPARTMENT	IN0454907		HAZARDOUS MATERIALS DISCLOSURE	644.40

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179579	2/25/2025	112145 112145 L.A. COUNTY FIRE DEPARTMENT	(Continued)		**Total :**	**644.40**
179580	2/25/2025	112827 LA OPINION	30243		LEGAL AD - NOTICE REQUESTING QUC	300.00
					Total :	**300.00**
179581	2/25/2025	109939 LA UNIFORMS & TAILORING	25341		PD PROGRAM SUPPLIES	1,190.15
			25510		PD UNIFORM SUPPLIES	66.15
					Total :	**1,256.30**
179582	2/25/2025	106372 LANDSCAPE STRUCTURES, INC.	INV-158449		PARK MAINT SUPPLIES	3,412.01
					Total :	**3,412.01**
179583	2/25/2025	112614 LAX AUTO REPAIR	20274		2022 FORD INTRCPTR #1630466 OIL &	70.00
					Total :	**70.00**
179584	2/25/2025	113091 LBPM/150TH APARTMENT (DMM1210)	RA-GORDON 03/2025		RENTAL ASSISTANCE PROGRAM	605.25
					Total :	**605.25**
179585	2/25/2025	112805 LEAGUE OF CALIFORNIA CITIES	26625-Q5C8T9	020-00057	ANNUAL MEMBERSHIP DUES	22,794.00
					Total :	**22,794.00**
179586	2/25/2025	113239 LEE, JAZZMAINE	RECEIPT #79788946		MAINTENANCE DEPOSIT REFUND	250.00
					Total :	**250.00**
179587	2/25/2025	109071 LETTER PUBLICATIONS	2693757-RX		TRANSIT ACCESS REPORT - RENEWAL	325.00
					Total :	**325.00**
179588	2/25/2025	113261 LIADAT, MUSTAFA	PERMIT #50023-0183		PERMIT DEPOSIT REFUND - 15315 ARI	5,000.00
			PERMIT #50023-0195		PERMIT DEPOSIT REFUND - 15313 ARI	7,500.00
					Total :	**12,500.00**
179589	2/25/2025	112260 LIEBERT CASSIDY WHITMORE	286089		LEGAL SERVICES	21,994.42
			286090		LEGAL SERVICES	86.32
					Total :	**22,080.74**
179590	2/25/2025	112260 LIEBERT CASSIDY WHITMORE	284275		LEGAL SERVICES	5,843.00
			285247		LEGAL SERVICES	465.00
			285260		LEGAL SERVICES	45.00

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179590	2/25/2025	112260 LIEBERT CASSIDY WHITMORE	(Continued)			
			285275		LEGAL SERVICES	8,752.50
			285276		LEGAL SERVICES	675.00
			285277		LEGAL SERVICES	1,440.00
			285290		LEGAL SERVICES	2,750.00
			285291		LEGAL SERVICES	126.00
			285302		LEGAL SERVICES	2,989.00
					Total :	**23,085.50**
179591	2/25/2025	109517 LOAD N' GO BUILDING MATERIALS	32337		STREET MAINT SUPPLIES	49.33
					Total :	**49.33**
179592	2/25/2025	109058 LOBBY TRAFFIC SYSTEMS INC	89365		ROWLEY PARK - REPLACE CHAIN LINK	2,450.00
					Total :	**2,450.00**
179593	2/25/2025	109563 LUCKY LADY CASINO	0850000271		ECONOMIC ASSISTANCE - JANUARY 2(	44,676.00
					Total :	**44,676.00**
179594	2/25/2025	112607 LUMINATOR TECHNOLOGY GROUP, GLOBAL,	633403	037-10402	UNIT 882 CAMERA RETROFIT	9,815.57
					Total :	**9,815.57**
179595	2/25/2025	113042 MA, ANGELA	RA-BELLAMY 03/2025		RENTAL ASSISTANCE PROGRAM	445.00
					Total :	**445.00**
179596	2/25/2025	105082 MAJESTIC LIGHTING, INC.	ML89948		BLDG MAINT SUPPLIES	220.48
			ML89984		BLDG MAINT SUPPLIES	66.12
			ML89985		BLDG MAINT SUPPLIES	22.04
			ML89989		BLDG MAINT SUPPLIES	480.43
					Total :	**789.07**
179597	2/25/2025	109203 MAKAI SOLUTIONS	I020628-0110		FACILITIES & EQUIPMENT MAINTENAN	147.64
					Total :	**147.64**
179598	2/25/2025	113046 MARX BROS. FIRE EXTINGUISHER, CO., INC.	P31699		FIRE EXTINGUISHER SERVICE - PW	1,196.16
			P31700		FIRE EXTINGUISHER SERVICE - CITY H	108.00
			P31701		FIRE EXTINGUISHER SERVICE - NCC	232.76
			P31702		FIRE EXTINGUISHER SERVICE - SENIC	60.00
			P31703		FIRE EXTINGUISHER SERVICE - HS	60.00

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179598	2/25/2025	113046 MARX BROS. FIRE EXTINGUISHER, CO., INC.	(Continued)			
			P31704		FIRE EXTINGUISHER SERVICE - PW	60.00
			P31705		FIRE EXTINGUISHER SERVICE - PW	268.00
			P31706		FIRE EXTINGUISHER SERVICE - ROWL	166.00
			P31707		FIRE EXTINGUISHER SERVICE - BELL /	70.00
			P31708		FIRE EXTINGUISHER SERVICE - FREEI	130.00
			P31709		FIRE EXTINGUISHER SERVICE - MAS F	100.00
			P31710		FIRE EXTINGUISHER SERVICE - JOHNS	127.56
					Total :	**2,578.48**
179599	2/25/2025	113064 MCMASTER-CARR SUPPLY COMPANY	39313433		GTRANS SHOP SUPPLIES	348.89
					Total :	**348.89**
179600	2/25/2025	110784 MD AUTOBODY	1923		GTRANS BUS REPAIRS	2,540.75
					Total :	**2,540.75**
179601	2/25/2025	113299 MERRIMAC ENERGY GROUP	2236877	037-10363	87 OCTANE REGULAR UNLEADED FUE	31,207.59
					Total :	**31,207.59**
179602	2/25/2025	113299 MERRIMAC ENERGY GROUP	2236896	037-10363	87 OCTANE REGULAR UNLEADED FUE	30,594.46
					Total :	**30,594.46**
179603	2/25/2025	100078 MESSINA, BRIAN	01/12-01/16		POST MANAGEMENT SEMINAR - MODU	200.00
			12/15-12/19		POST MANAGEMENT SEMINAR - MODU	200.00
					Total :	**400.00**
179604	2/25/2025	111604 MICRO ELECTRONICS, INC	13527420	023-01553	COMPUTER REPLACEMENT PARTS	8,612.74
					Total :	**8,612.74**
179605	2/25/2025	111749 MIDWEST BUS CORPORATION	59235		GTRANS AUTO SUPPLIES	404.34
					Total :	**404.34**
179606	2/25/2025	112058 MOBILE CAR & TRUCK WASH JBT	2722		INTERIOR DETAILING & WASH	1,445.50
					Total :	**1,445.50**
179607	2/25/2025	104152 MODEL 1 COMMERCIAL, VEHICLES, INC.	XA128026014		GTRANS AUTO PARTS	255.96
			XA128026019		GTRANS AUTO PARTS	104.76

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179607	2/25/2025	104152 104152 MODEL 1 COMMERCIAL, VEHICLES, INC. (Continued)			**Total :**	**360.72**
179608	2/25/2025	113029 MONTEREY APARTMENTS	RA-HILLJONES 03/2025		RENTAL ASSISTANCE PROGRAM	473.75
					Total :	**473.75**
179609	2/25/2025	113029 MONTEREY APARTMENTS	RA-TEMPLE 03/2025		RENTAL ASSISTANCE PROGRAM	350.00
					Total :	**350.00**
179610	2/25/2025	113214 MOSICH, BORKA	106		ENTERTAINMENT SERVICES - CANDLE	200.00
					Total :	**200.00**
179611	2/25/2025	113605 MUTUAL LIQUID GAS & EQUIPMENT, CO., INC	63525		PW MAINT SUPPLIES	330.37
					Total :	**330.37**
179612	2/25/2025	105622 N/S CORPORATION	0126074	037-10396	GTRANS BUS WASH EQUIPMENT MAIN	674.00
					Total :	**674.00**
179613	2/25/2025	111979 NATIONAL CNG & FLEET SERVICES	4843		CNG INSPECTIONS	2,745.28
					Total :	**2,745.28**
179614	2/25/2025	112159 NEOU, ROMEO	10/23-11/11		OCTA CERTIFIED MAINTENANCE TRAI	257.28
					Total :	**257.28**
179615	2/25/2025	105140 NMK CORPORATION	COG-032		CISCO SMARTNET SERVICE	2,819.62
					Total :	**2,819.62**
179616	2/25/2025	113260 NWANDIKO, CHIDI	PERMIT #50022-1014		PERMIT DEPOSIT REFUND - 14923 S. K	7,500.00
					Total :	**7,500.00**
179617	2/25/2025	113111 OBIAMALU, REGINALD	RA-BAILEY 03/2025		RENTAL ASSISTANCE PROGRAM	495.00
					Total :	**495.00**
179618	2/25/2025	110575 OCCUPATIONAL HEALTH CENTERS, OF CALIF	85683290	023-01558	RANDOM TESTS	139.00
			85748569	023-01558	RANDOM TESTS	1,262.00
			85750428	023-01558	RANDOM TESTS	486.00
					Total :	**1,887.00**
179619	2/25/2025	115168 OFFICE DEPOT	403299534		CM OFFICE SUPPLIES	327.49

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179619	2/25/2025	115168 OFFICE DEPOT	(Continued)			
			403586420		PD PROGRAM SUPPLIES	65.25
			407063033		PD OFFICE SUPPLIES	78.93
			407063989		PD OFFICE SUPPLIES	25.57
			407390963		FINANCE OFFICE SUPPLIES	59.99
			408108085		PD OFFICE SUPPLIES	104.35
			408731838		CM OFFICE SUPPLIES	436.06
			409106010		BUS OFFICE SUPPLIES	64.17
			409390630		PD OFFICE SUPPLIES	314.39
			409391192		PD OFFICE SUPPLIES	2.92
			409396251		PD OFFICE SUPPLIES	56.30
			410061085		CD OFFICE SUPPLIES	74.11
			410116024		BUS OFFICE SUPPLIES	195.89
					Total :	**1,805.42**
179620	2/25/2025	111358 O'REILLY AUTO PARTS	116218		PW AUTO PARTS	428.14
			118336		PW AUTO TRAINING	190.00
			119029		PW AUTO PARTS	653.14
					Total :	**1,271.28**
179621	2/25/2025	115810 ORKIN PEST CONTROL	273801288		PEST CONTROL - ACCT #27336703	347.00
					Total :	**347.00**
179622	2/25/2025	103673 PACIFIC PRODUCTS & SERVICE, LLC	35325		SIGNS/SIGNAL SUPPLIES	1,104.71
					Total :	**1,104.71**
179623	2/25/2025	112845 PALICON GROUP	2023	035-01359	BACKGROUND INVESTIGATION SERVI(	170.00
			2157	035-01359	BACKGROUND INVESTIGATION SERVI(	5,000.00
			2181	035-01359	BACKGROUND INVESTIGATION SERVI(	3,935.00
			2244	035-01359	BACKGROUND INVESTIGATION SERVI(	170.00
					Total :	**9,275.00**
179624	2/25/2025	113049 PARK PLAZA PROPERTIES, LLC	RA-FINNEY 03/2025		RENTAL ASSISTANCE PROGRAM	382.75
					Total :	**382.75**
179625	2/25/2025	111698 PELLEGRINO, RAY	RA-WALKER 03/2025		RENTAL ASSISTANCE PROGRAM	475.00
					Total :	**475.00**

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179626	2/25/2025	110403 PENN RECORDS MANAGEMENT	0146509		OFFSITE STORAGE SERVICES - JANU/	65.50
					Total :	**65.50**
179627	2/25/2025	113188 PERSON REALTY INC	RA-MACK 03/2025		RENTAL ASSISTANCE PROGRAM	1,250.00
					Total :	**1,250.00**
179628	2/25/2025	116140 PETE'S ROAD SERVICE, INC.	806445		STREET SWEEPER SUPPLIES	4,988.31
					Total :	**4,988.31**
179629	2/25/2025	307101 PETTY CASH FUND	10/09/24-02/05/25		REPLENISH PETTY CASH	809.89
					Total :	**809.89**
179630	2/25/2025	106569 PICO PARTY RENTS & SELLS	300940		FIVE STAR BUS ROADEO SUPPLIES	4,314.74
					Total :	**4,314.74**
179631	2/25/2025	111883 PROJECT PARTNERS, INC.	12431	024-01112	PROJECT MANAGEMENT SERVICES	13,720.00
					Total :	**13,720.00**
179632	2/25/2025	102677 PROVIDENCE HEALTH & SERVICES	600000283 02/05/25		PRE-EMPLOYMENT PHYSICALS	120.00
					Total :	**120.00**
179633	2/25/2025	106092 PRUDENTIAL OVERALL SUPPLY	42994761	037-10365	UNIFORM & SUPPLY RENTAL	324.48
			42996579	037-10365	UNIFORM & SUPPLY RENTAL	1,217.52
			42998368	037-10365	UNIFORM & SUPPLY RENTAL	324.48
			43000156	037-10365	UNIFORM & SUPPLY RENTAL	316.78
			43001968	037-10365	UNIFORM & SUPPLY RENTAL	316.78
			43002342	034-00667	CUSTODIAL SUPPLIES	1,352.09
			43002343	024-01082	UNIFORM & SUPPLY RENTAL	163.24
				034-00667		
			43002344	034-00667	UNIFORM & SUPPLY RENTAL	30.73
			43002345	034-00667	SUPPLY RENTAL - MATS - GTRANS	50.10
			43002346	034-00667	SUPPLY RENTAL - MATS - NCC	13.65
			43002347	034-00667	SUPPLY RENTAL - MATS - CH	19.00
			43002348	034-00667	SUPPLY RENTAL - MATS - PD	91.60
			43002349	034-00667	SUPPLY RENTAL - MATS - HS	11.60
			43003780	037-10365	UNIFORM & SUPPLY RENTAL	314.05
			43004133	034-00667	CUSTODIAL SUPPLIES	1,471.84
			43004134	024-01082	UNIFORM & SUPPLY RENTAL	164.32

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179633	2/25/2025	106092 PRUDENTIAL OVERALL SUPPLY	(Continued)			
				034-00667		
			43004135	034-00667	UNIFORM & SUPPLY RENTAL	30.73
			43004136	034-00667	SUPPLY RENTAL - MATS - GTRANS	50.10
			43005958	024-01082	UNIFORM & SUPPLY RENTAL	164.32
				034-00667		
			43005959	034-00667	UNIFORM & SUPPLY RENTAL	30.73
			43005960	034-00667	SUPPLY RENTAL - MATS - GTRANS	50.10
			43005961	034-00667	SUPPLY RENTAL - MATS - NCC	13.65
			43005963	034-00667	SUPPLY RENTAL - MATS - PD	91.60
			43005964	034-00667	SUPPLY RENTAL - MATS - HS	11.60
					Total :	**6,625.09**
179634	2/25/2025	116820 PSOMAS	218030	037-09987	GTRANS DESIGN BUILD CONSTRUCTI(	419.38
					Total :	**419.38**
179635	2/25/2025	112508 PUMPMAN SOCAL	130001036		SEWER PUMP MAINTENANCE	1,740.00
					Total :	**1,740.00**
179636	2/25/2025	103907 QUINN COMPANY	WO810267635		PW SERVICE CALL	1,019.35
					Total :	**1,019.35**
179637	2/25/2025	103072 REACH	022524		EAP SERVICES/REACHLINE NEWSLET	902.00
					Total :	**902.00**
179638	2/25/2025	108886 REDMON GROUP INC.	RG2022378	037-10418	GTRANS WEBSITE SUPPORT	2,329.47
					Total :	**2,329.47**
179639	2/25/2025	118142 REFRIGERATION SUPPLIES, DISTRIBUTOR	48528975		BLDG MAINT SUPPLIES	64.94
					Total :	**64.94**
179640	2/25/2025	109668 RHEE, KATHERINE	120924		EDUCATIONAL REIMBURSEMENT	225.00
					Total :	**225.00**
179641	2/25/2025	112578 RIDECO US INC	2025-059US	037-10254	MICROTRANSIT SOFTWARE	1,803.18
					Total :	**1,803.18**
179642	2/25/2025	111985 RIGG, ALLAN	020525		MGMT ANNUAL HEALTH BENEFIT	500.00

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179642	2/25/2025	111985 111985 RIGG, ALLAN	(Continued)		**Total :**	**500.00**
179643	2/25/2025	112433 RIGHTWAY HEALTHCARE, INC	INV22040	023-01566	CARE NAVIGATION COORDINATORS	1,868.75
					Total :	**1,868.75**
179644	2/25/2025	111867 RJM DESIGN GROUP	36910	024-00795	DESIGN & ENGINEERING - AQUATIC &	3,716.50
					Total :	**3,716.50**
179645	2/25/2025	107146 ROADLINE PRODUCTS INC. U.S.A.	20992		STREET MAINT SUPPLIES	1,169.78
					Total :	**1,169.78**
179646	2/25/2025	112885 ROSE EQUIPMENT REPAIR INC.	IN32331		BUS VEHICLE MAINT SUPPLIES	365.24
					Total :	**365.24**
179647	2/25/2025	113207 RYTYCH TRUCK SPECIALTIES	2536		CLEAN TRUCK CHECK	1,050.00
					Total :	**1,050.00**
179648	2/25/2025	119126 S.B.R.P.C.A.	04575		PD AUTO PARTS	1,466.33
			04578		PD AUTO PARTS	1,466.33
					Total :	**2,932.66**
179649	2/25/2025	119022 SAFE MART OF SOUTHERN, CALIFORNIA, INC	1443		BLDG MAINT SUPPLIES	26.46
			1553		PD PROGRAM SUPPLIES	75.41
					Total :	**101.87**
179650	2/25/2025	119015 SAFETY-KLEEN CORPORATION	96282692		PW CLARIFIER CLEANING SERVICES	378.21
			96518244		PW CLARIFIER CLEANING SERVICES	3,732.47
					Total :	**4,110.68**
179651	2/25/2025	113255 SAM, CHRISTOPHER	PERMIT #50024-0068		PERMIT DEPOSIT REFUND - 2709 W. 14	5,000.00
					Total :	**5,000.00**
179652	2/25/2025	112327 SAMI'S REFEREES LLC	01/16/25-01/31/25		SPORT REFEREE SERVICES	960.00
			01/16-01/31/25		SPORT REFEREE SERVICES	240.00
					Total :	**1,200.00**
179653	2/25/2025	106044 SARDO BUS & COACH UPHOLSTERY	77337		BUS SEAT INSERTS	658.85

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179653	2/25/2025	106044 106044 SARDO BUS & COACH UPHOLSTERY (Continued)			**Total :**	**658.85**
179654	2/25/2025	105685 SCHNUR, DIANA	01/28-01/31		2025 LCW ANNUAL CONFERENCE	150.00
			11/12-11/15		CALPELRA 2024 ANNUAL TRAINING CC	150.00
					Total :	**300.00**
179655	2/25/2025	108654 SECTRAN SECURITY INC.	25020887		ARMORED TRANSPORTATION SERVICI	974.87
			25020888		ARMORED TRANSPORTATION SERVICI	291.13
					Total :	**1,266.00**
179656	2/25/2025	113163 SECURE-A-DOOR	12129		GTRANS FACILITY MAINTENANCE	230.00
					Total :	**230.00**
179657	2/25/2025	113053 SEGUNDO TERRACE LLC	RA-THOMAS 03/2025		RENTAL ASSISTANCE PROGRAM	473.75
					Total :	**473.75**
179658	2/25/2025	104451 SELECT ADVANTAGE	10349261		TRANSIT SUPERVISOR ASSESSMENT S	280.00
					Total :	**280.00**
179659	2/25/2025	106622 SESAC	10790278		MUNICIPALITY PERFORMANCE LICENS	1,982.00
					Total :	**1,982.00**
179660	2/25/2025	110731 SHAW HR CONSULTING, INC	012258		PROFESSIONAL SERVICES	302.50
					Total :	**302.50**
179661	2/25/2025	119233 SHERWIN-WILLIAMS CO.	0322-7		STREET MAINT SUPPLIES	499.62
					Total :	**499.62**
179662	2/25/2025	109918 SHIGE'S FOREIGN CAR SERVICE, INC.	8100509	035-01364	2021 FORD INTRCPTR SERVICE & REP	853.92
					Total :	**853.92**
179663	2/25/2025	113084 SL PROPERTY MANAGEMENT INC	RA-HOPE 03/2025		RENTAL ASSISTANCE PROGRAM	545.35
					Total :	**545.35**
179664	2/25/2025	119378 SMARDAN SUPPLY CO.	S4186418		GTRANS FACILITY SUPPLIES	49.53
					Total :	**49.53**
179665	2/25/2025	113243 SMITH, VANESSA	CIT #311144164		PARKING CITATION REFUND	52.00

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Voucher	Date	Vendor		Invoice	PO #	Description/Account	Amount
179665	2/25/2025	113243	113243 SMITH, VANESSA	(Continued)		**Total :**	**52.00**
179666	2/25/2025	107758	SO CAL CONSTRUCTION SERVICES	12902-CDBG1	032-00195	CDBG HOUSING REHAB PROGRAM	24,705.00
						Total :	**24,705.00**
179667	2/25/2025	119447	SOUTH BAY FORD	525123		PW AUTO PARTS	36.76
				525137		PW AUTO PARTS	85.95
				525149		PW AUTO PARTS	52.63
						Total :	**175.34**
179668	2/25/2025	112633	SOUTH BAY KUSTOMZ, LLC	13319		2016 FORD EXPLR SILVER BATTERY R	303.84
				13320		2020 FORD EXPL #P02 SERVICE & REF	2,137.03
				13321		2012 CHEVY TAHOE #K93 SERVICE & F	1,703.59
						Total :	**4,144.46**
179669	2/25/2025	619003	SOUTHERN CALIFORNIA EDISON	021225		LIGHT & POWER	151,668.88
						Total :	**151,668.88**
179670	2/25/2025	619006	SOUTHERN CALIFORNIA EDISON	90004740	024-01128	TRAFFIC SIGNAL POLE RENTAL	9,624.12
						Total :	**9,624.12**
179671	2/25/2025	103202	SOUTHERN COUNTIES LUBRICANTS, LLC	216461		BUS AUTOMOTIVE FLUIDS	1,489.26
						Total :	**1,489.26**
179672	2/25/2025	113246	SRIPONGKOSOL, THITIMA	PERMIT #50022-1016		PERMIT DEPOSIT REFUND - 17006 S. E	10,000.00
						Total :	**10,000.00**
179673	2/25/2025	119010	STAPLES ADVANTAGE	6022894566		PW OFFICE SUPPLIES	11.49
				6022894567		PW OFFICE SUPPLIES	83.82
						Total :	**95.31**
179674	2/25/2025	109877	STATEWIDE TRAFFIC SAFETY, AND SIGNS IN	40017449		SIGNS/SIGNALS SUPPLIES	2,317.13
				40017476		SIGNS/SIGNALS SUPPLIES	195.17
				40017477		SIGNS/SIGNALS SUPPLIES	608.66
				40017527		SIGNS/SIGNALS SUPPLIES	242.64
						Total :	**3,363.60**
179675	2/25/2025	108338	STEAMX, LLC	71226		PRESSURE WASHER SERVICE & REPA	1,307.30

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179675	2/25/2025	108338 108338 STEAMX, LLC	(Continued)		**Total :**	**1,307.30**
179676	2/25/2025	104106 SWARCO MCCAIN, INC.	INV0284800	024-01093	SIGNS/SIGNALS SUPPLIES	26,446.83
					Total :	**26,446.83**
179677	2/25/2025	104106 SWARCO MCCAIN, INC.	INV0284802	024-01093	SIGNS/SIGNALS SUPPLIES	20,147.14
					Total :	**20,147.14**
179678	2/25/2025	113248 SWEET LOU'S BBQ	2610	037-10431	2025 FIVE STAR ROADEO FOOD & REF	11,835.34
					Total :	**11,835.34**
179679	2/25/2025	100609 TANK SPECIALISTS OF CALIFORNIA	34502		CERTIFIED DESIGNATED OPERATOR S	198.00
					Total :	**198.00**
179680	2/25/2025	113241 TEAM FISHEL	PERMIT #17685		PERMIT DEPOSIT REFUND - VERMONT	5,000.00
					Total :	**5,000.00**
179681	2/25/2025	112703 TEAM PORTER INC.	RA-GOMEZ 03/2025		RENTAL ASSISTANCE PROGRAM	487.50
					Total :	**487.50**
179682	2/25/2025	110238 TIREHUB, LLC	47291901		TIRES - GY EAGLE ENFORCER BW 108	227.13
					Total :	**227.13**
179683	2/25/2025	111990 TOWNSEND PUBLIC AFFAIRS, INC	22910	020-00051	CONSULTING SERVICES - FEBRUARY 2	7,000.00
					Total :	**7,000.00**
179684	2/25/2025	104806 TOYOTA LIFT OF L.A.	PSI-0437698		SERVICE CALL - TOYOTA #8FGCU25 OI	225.65
					Total :	**225.65**
179685	2/25/2025	106018 TRANE U.S. INC.	314833883		BUS FACILITY SERVICE MAINTENANCE	1,120.15
			315036456		BUS FACILITY MAINT SUPPLIES	-395.51
					Total :	**724.64**
179686	2/25/2025	105959 TRANSITTALENT.COM, LLC	1642409		RECRUITMENT AD - GTRANS	405.00
					Total :	**405.00**
179687	2/25/2025	110851 TRAPEZE SOFTWARE GROUP, INC.	TSPAU240146	037-09887	GTRANS SCHEDULING & OPERATIONS	76,714.74
					Total :	**76,714.74**

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179688	2/25/2025	105556 TRIANGLE SPORTS, INC.	43171		ADULT SPORT UNIFORMS	278.68
					Total :	**278.68**
179689	2/25/2025	111481 TRIO COMMUNITY MEALS, LLC	INV2230059387	034-00659	SENIOR FEEDING PROGRAM	6,365.48
			INV2230059908	034-00659	SENIOR FEEDING PROGRAM	6,330.06
					Total :	**12,695.54**
179690	2/25/2025	100896 U.S. BANK	7552133		2020 TAXABLE POB - ADMIN FEES	2,750.00
					Total :	**2,750.00**
179691	2/25/2025	109900 U.S. BANK CORPORATE PAYMENT, SYSTEMS	CRESPO 01/22/25		CAL CARD STATEMENT 12/24-01/22/25	1,079.88
			PD TRAINING 12/23/24		CAL CARD STATEMENT 11/23-12/23/24	3,131.51
			PD TRAINING2 122324		CAL CARD STATEMENT 11/23-12/23/24	1,988.98
			PYNN 01/22/25		CAL CARD STATEMENT 12/24-01/22/25	870.56
			RIGG 01/22/25		CAL CARD STATEMENT 12/24-01/22/25	211.49
			SANTIN 01/22/25		CAL CARD STATEMENT 12/24-01/22/25	6,424.30
			SANTOS 01/22/25		CAL CARD STATEMENT 12/24-01/22/25	1,322.89
			SANTOS 09/23/24		CAL CARD STATEMENT 08/23-09/23/24	3,946.11
			SANTOS 11/22/24		CAL CARD STATEMENT 10/23-11/22/24	1,370.91
			SANTOS 12/23/24		CAL CARD STATEMENT 11/23-12/23/24	4,113.31
					Total :	**24,459.94**
179692	2/25/2025	104692 ULINE	186719804		PD PROGRAM SUPPLIES	633.39
			188490362		BUS SHOP SUPPLIES	73.08
			188553466		BUS SHOP SUPPLIES	86.31
					Total :	**792.78**
179693	2/25/2025	121275 UNDERGROUND SERVICE ALERT, OF SC	120250298		NEW TICKETS	141.35
			24-252433		STATE REGULATORY COSTS- BILLABLI	67.81
					Total :	**209.16**
179694	2/25/2025	113027 UNIFIED PROPERTY MANAGEMENT-, SATBUD	RA-ALLEN 03/2025		RENTAL ASSISTANCE PROGRAM	498.75
					Total :	**498.75**
179695	2/25/2025	107596 UNION PACIFIC RAILROAD COMPANY	90141724	024-01008	ENGINEERING SERVICES - ARTESIA BI	2,429.13
			90141728	024-01069	WESTERN AVE RR CROSSING REHAB,	529.28
					Total :	**2,958.41**

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Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179696	2/25/2025	106754 URBAN RESTORATION GROUP US, INC.	00046020		STREET MAINT SUPPLIES	1,676.78
					Total :	**1,676.78**
179697	2/25/2025	111843 VERITONE INC.	755267	035-01373	SOFTWARE FOR TRAFFIC DATA	8,700.00
					Total :	**8,700.00**
179698	2/25/2025	113252 VILLANUEVA, LOURDES M.	PERMIT #50023-1083		PERMIT DEPOSIT REFUND - 1211 W. 14	5,000.00
					Total :	**5,000.00**
179699	2/25/2025	105254 VISION TIRE	42294		PW VEHICLE TIRE SERVICES	50.00
			42351		CD VEHICLE TIRE SERVICES	25.00
					Total :	**75.00**
179700	2/25/2025	122435 VISTA PAINT CORPORATION	2024-750779-00		STREET MAINT SUPPLIES	657.34
			2025-791459-00		STREET MAINT SUPPLIES	198.45
					Total :	**855.79**
179701	2/25/2025	108353 WALTERS WHOLESALE ELECTRIC CO	C008299652		GTRANS MAINT SUPPLIES	-161.25
			S126988561		BLDG MAINT SUPPLIES	856.86
			S127209205		GTRANS MAINT SUPPLIES	229.54
			S127218526		GTRANS MAINT SUPPLIES	106.70
			S127239247		GTRANS MAINT SUPPLIES	1,187.98
					Total :	**2,219.83**
179702	2/25/2025	101903 WATER TECHNIQUES	14329		DRINKING WATER SYSTEM RENTAL	45.00
					Total :	**45.00**
179703	2/25/2025	112737 WELLS FARGO VENDOR FINANCIAL, SERVICE	5033224309	023-01557	CITYWIDE COPIER LEASE - MARCH 20	3,726.48
				023-01557		
					Total :	**3,726.48**
179704	2/25/2025	112694 WESTERN A/V	22247		COUNCIL CHAMBERS AV MAINTENANC	694.00
					Total :	**694.00**
179705	2/25/2025	119387 WEX BANK	102748571		FUEL PURCHASES	70.02
					Total :	**70.02**
179706	2/25/2025	108957 WONG, GLENN	RA-SAWA 03/2025		RENTAL ASSISTANCE PROGRAM	367.00

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount
179706	2/25/2025	108957 108957 WONG, GLENN	(Continued)		**Total :**	**367.00**
179707	2/25/2025	112816 XIMENEZ, ANTHONY	020725		REIMBURSEMENT - BOLT RIBBON CUT	176.40
					Total :	**176.40**
179708	2/25/2025	125001 YAMADA COMPANY, INC.	84798		PARK MAINT SUPPLIES	61.21
			84802		PARK MAINT SUPPLIES	96.25
					Total :	**157.46**
245	**Vouchers for bank code :**	usb			**Bank total :**	**1,936,751.92**
245	**Vouchers in this report**				**Total vouchers :**	**1,936,751.92**

Bank code : usb

Voucher	Date	Vendor	Invoice	PO #	Description/Account	Amount

CLAIMS VOUCHER APPROVAL

I hereby certify that the demands or claims covered by the checks listed on pages 1 to 26 inclusive of the check register are accurate and funds are available for payment thereof.

By: _____

Director of Administrative Services

This is to certify that the claims or demands covered by checks listed on pages 1 to 26 inclusive of the check register have been audited by the City Council of the City of Gardena and that all of the said checks are approved for payment except check numbers:

_____

_____ 02/25/2025
Mayor Date

_____ _____
Councilmember Date

_____ _____
Councilmember Date

Acknowledged:

_____ _____
Councilmember Date

_____ _____
Councilmember Date

CITY OF GARDENA

INVESTMENT REPORT

January 2025

Prepared by Danny Rodriguez, Revenue and Purchasing Manager
Reviewed by Ray Beeman, Director of Administrative Services

CHANDLER ASSET MANAGEMENT

MONTHLY ACCOUNT STATEMENT

City of Gardena Cons | Account #10647 | As of January 31, 2025

CHANDLER ASSET MANAGEMENT | chandlerasset.com

Chandler Team:

For questions about your account, please call (800) 317-4747,
or contact clientservice@chandlerasset.com

Custodian:

Information contained herein is confidential. We urge you to compare this statement to the one you receive from your qualified custodian. Please see Important Disclosures at the end of the statement.

PORTFOLIO SUMMARY

City of Gardena Cons | Account #10647 | As of January 31, 2025

Portfolio Characteristics

Average Modified Duration	0.59
Average Coupon	4.19%
Average Purchase YTM	4.34%
Average Market YTM	4.46%
Average Quality*	AAA
Average Final Maturity	0.69
Average Life	0.61

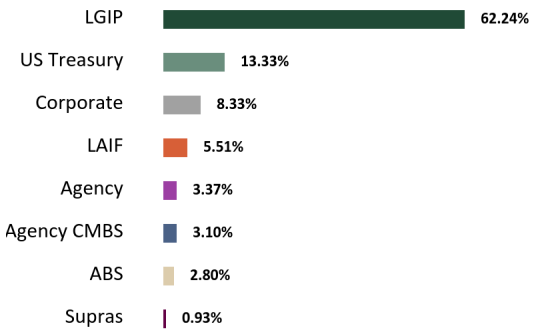
Account Summary

	End Values as of 12/31/2024	End Values as of 01/31/2025
Market Value	83,091,500.34	103,446,327.30
Accrued Interest	231,480.33	233,757.37
Total Market Value	**83,322,980.67**	**103,680,084.67**
Income Earned	381,944.06	351,896.10
Cont/WD	(13,500,247.82)	19,994,681.12
Par	77,203,158.26	97,492,504.65
Book Value	83,441,152.90	103,743,495.55
Cost Value	83,318,434.85	103,628,687.93

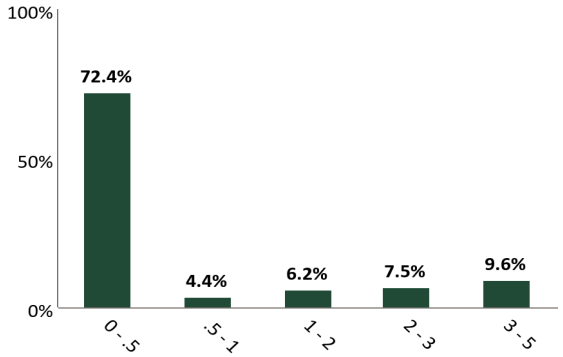
Top Issuers

California Asset Mgmt Program	55.45%
Government of The United States	13.33%
CalTrust	6.79%
LAIF	5.51%
FHLMC	3.10%
Farm Credit System	1.79%
Federal Home Loan Banks	1.26%
International Bank for Recon and Dev	0.93%

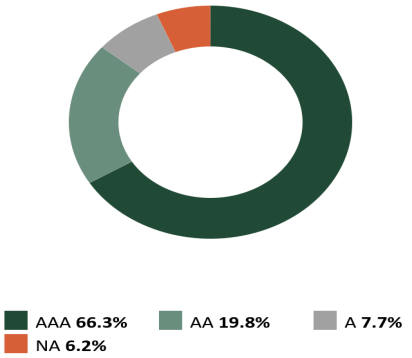
Sector Allocation



Maturity Distribution



Credit Quality (S&P)



*The credit quality is a weighted average calculation of the highest of S&P, Moody's and Fitch

RECONCILIATION SUMMARY

City of Gardena Cons | Account #10647 | As of January 31, 2025

Maturities / Calls

Month to Date	**(1,500,000.00)**
Fiscal Year to Date	**(1,500,000.00)**

Principal Paydowns

Month to Date	**(109,375.81)**
Fiscal Year to Date	**(109,375.81)**

Purchases

Month to Date	**22,814,647.63**
Fiscal Year to Date	**22,814,647.63**

Sales

Month to Date	**(871,307.23)**
Fiscal Year to Date	**(871,307.23)**

Interest Received

Month to Date	**345,557.51**
Fiscal Year to Date	**345,557.51**

Purchased / Sold Interest

Month to Date	**(6,274.04)**
Fiscal Year to Date	**(6,274.04)**

Accrual Activity Summary

	Month to Date	Fiscal Year to Date (01/01/2025)
Beginning Book Value	83,441,152.90	83,441,152.90
Maturities/Calls	(1,500,000.00)	(1,500,000.00)
Principal Paydowns	(109,375.81)	(109,375.81)
Purchases	22,814,647.63	22,814,647.63
Sales	(871,307.23)	(871,307.23)
Change in Cash, Payables, Receivables	(41,957.53)	(41,957.53)
Amortization/Accretion	10,335.59	10,335.59
Realized Gain (Loss)	(0.00)	(0.00)
Ending Book Value	103,743,495.55	103,743,495.55

Fair Market Activity Summary

	Month to Date	Fiscal Year to Date (01/01/2025)
Beginning Market Value	83,091,500.34	83,091,500.34
Maturities/Calls	(1,500,000.00)	(1,500,000.00)
Principal Paydowns	(109,375.81)	(109,375.81)
Purchases	22,814,647.63	22,814,647.63
Sales	(871,307.23)	(871,307.23)
Change in Cash, Payables, Receivables	(41,957.53)	(41,957.53)
Amortization/Accretion	10,335.59	10,335.59
Change in Net Unrealized Gain (Loss)	52,484.31	52,484.31
Realized Gain (Loss)	(0.00)	(0.00)
Ending Market Value	103,446,327.30	103,446,327.30

Cusip	Security Description	Par Value/ Units	Purchase Date Purchase Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody's/ S&P/ Fitch	Maturity Duration
ABS									
05593AAC3	BMWLT 2023-1 A3 5.16 11/25/2025	5,428.52	02/07/2023 5.43%	5,428.39 5,428.48	100.04 4.68%	5,430.80 4.67	0.01% 2.31	AAA/AAA NA	0.82 0.08
43815GAC3	HAROT 2021-4 A3 0.88 01/21/2026	10,262.58	11/16/2021 0.89%	10,260.42 10,262.14	99.37 4.91%	10,197.88 2.51	0.01% (64.26)	AAA/NA AAA	0.97 0.16
47789QAC4	JDOT 2021-B A3 0.52 03/16/2026	6,607.56	07/13/2021 0.52%	6,606.97 6,607.48	99.66 3.58%	6,585.25 1.53	0.01% (22.23)	AAA/NA AAA	1.12 0.11
89238JAC9	TAOT 2021-D A3 0.71 04/15/2026	8,491.94	11/09/2021 0.95%	8,491.76 8,491.91	99.42 5.04%	8,442.57 2.68	0.01% (49.35)	NA/AAA AAA	1.20 0.13
43815BAC4	HAROT 2022-1 A3 1.88 05/15/2026	44,539.92	02/15/2022 1.89%	44,533.22 44,538.08	99.26 4.76%	44,208.69 37.22	0.04% (329.39)	AAA/AAA NA	1.28 0.26
43815PAC3	HAROT 2022-2 A3 3.73 07/20/2026	48,478.81	08/15/2022 3.87%	48,475.92 48,477.91	99.66 4.68%	48,313.53 65.30	0.05% (164.38)	NA/AAA AAA	1.47 0.37
05602RAD3	BMWOT 2022-A A3 3.21 08/25/2026	84,862.30	01/05/2023 4.81%	82,637.98 83,922.90	99.60 4.64%	84,522.81 45.40	0.08% 599.92	AAA/AAA NA	1.56 0.28
89238FAD5	TAOT 2022-B A3 2.93 09/15/2026	41,293.53	04/07/2022 3.09%	41,292.56 41,293.27	99.45 4.65%	41,067.32 53.77	0.04% (225.96)	AAA/AAA NA	1.62 0.32
47787JAC2	JDOT 2022 A3 0.36 09/15/2026	33,204.09	03/10/2022 2.34%	33,196.74 33,201.65	99.24 4.28%	32,952.45 34.24	0.03% (249.20)	AAA/NA AAA	1.62 0.39
379929AD4	GMALT 2023-3 A3 5.38 11/20/2026	75,000.00	08/08/2023 5.38%	74,991.01 74,995.05	100.43 4.61%	75,319.64 123.29	0.07% 324.60	NA/AAA AAA	1.80 0.51
47800AAC4	JDOT 2022-B A3 3.74 02/16/2027	75,694.48	07/12/2022 3.77%	75,687.25 75,691.81	99.55 4.53%	75,356.16 125.82	0.07% (335.65)	AAA/NA AAA	2.04 0.58
448979AD6	HART 2023-A A3 4.58 04/15/2027	134,307.21	04/04/2023 5.14%	134,294.10 134,300.02	100.01 4.61%	134,316.36 273.39	0.13% 16.34	NA/AAA AAA	2.20 0.54
36265WAD5	GMCAR 2022-3 A3 3.64 04/16/2027	48,349.15	07/06/2022 3.93%	48,348.82 48,349.02	99.63 4.61%	48,168.55 73.33	0.05% (180.47)	AAA/NA AAA	2.21 0.40
43815JAC7	HAROT 2023-1 A3 5.04 04/21/2027	61,611.84	02/16/2023 5.09%	61,600.39 61,605.76	100.32 4.55%	61,808.53 86.26	0.06% 202.77	AAA/NA AAA	2.22 0.58
02582JJT8	AMXCA 2022-2 A 3.39 05/17/2027	185,000.00	05/17/2022 3.42%	184,959.08 184,994.59	99.67 4.60%	184,395.49 278.73	0.18% (599.09)	NA/AAA AAA	0.28 0.28
47800BAC2	JDOT 2022-C A3 5.09 06/15/2027	157,450.93	10/12/2022 3.29%	157,438.71 157,445.34	100.30 4.72%	157,924.29 356.19	0.15% 478.95	AAA/NA AAA	2.37 0.71
58770AAC7	MBART 2023-1 A3 4.51 11/15/2027	79,316.68	01/18/2023 4.56%	79,307.16 79,311.32	99.98 4.59%	79,299.86 158.99	0.08% (11.45)	NA/AAA AAA	2.79 0.60

Cusip	Security Description	Par Value/ Units	Purchase Date Purchase Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody's/ S&P/ Fitch	Maturity Duration
58769GAD5	MBALT 2024-B A3 4.23 02/15/2028	130,000.00	09/17/2024 4.24%	129,978.12 129,980.40	99.61 4.52%	129,493.86 244.40	0.13% (486.54)	NA/AAA AAA	3.04 1.54
362583AD8	GMCAR 2023-2 A3 4.47 02/16/2028	115,000.00	04/04/2023 4.51%	114,996.84 114,998.02	99.97 4.55%	114,970.69 214.19	0.11% (27.33)	AAA/AAA NA	3.04 0.69
02582JJZ4	AMXCA 2023-1 A 4.87 05/15/2026	125,000.00	06/07/2023 4.87%	124,988.91 124,993.71	100.52 4.49%	125,649.36 270.56	0.12% 655.65	NA/AAA AAA	1.28 1.22
47787CAC7	JDOT 2023-C A3 5.48 05/15/2028	310,000.00	09/12/2023 5.40%	309,978.70 309,984.98	101.08 4.77%	313,351.41 755.02	0.30% 3,366.43	AAA/NA AAA	3.29 1.39
161571HT4	CHAIT 2023-1 A 5.16 09/15/2028	340,000.00	09/07/2023 5.17%	339,905.75 339,931.80	101.09 4.50%	343,691.45 779.73	0.33% 3,759.65	NA/AAA AAA	3.62 1.52
02582JKD1	AMXCA 2023-3 A 5.23 09/15/2028	340,000.00	09/12/2023 5.29%	339,984.80 339,988.98	101.26 4.46%	344,268.19 790.31	0.33% 4,279.21	NA/AAA AAA	3.62 1.52
44934QAD3	HART 2024-B A3 4.84 03/15/2029	90,000.00	07/16/2024 4.90%	89,986.42 89,987.96	100.59 4.59%	90,529.44 193.60	0.09% 541.48	NA/AAA AAA	4.12 1.97
448976AD2	HART 2024-C A3 4.41 05/15/2029	140,000.00	10/08/2024 4.46%	139,989.75 139,990.41	99.74 4.58%	139,632.92 274.40	0.13% (357.49)	NA/AAA AAA	4.28 2.10
89239TAD4	TAOT 2024-D A3 4.4 06/15/2029	105,000.00	10/10/2024 4.44%	104,994.14 104,994.51	99.70 4.60%	104,690.08 205.33	0.10% (304.43)	AAA/AAA NA	4.37 1.80
38014AAD3	GMCAR 2024-4 A3 4.4 08/16/2029	95,000.00	10/08/2024 4.32%	94,981.70 94,982.82	99.74 4.58%	94,748.73 174.17	0.09% (234.09)	AAA/AAA NA	4.54 1.87
Total ABS		**2,889,899.53**	**4.57%**	**2,887,335.61 2,888,750.32**	**100.33 4.58%**	**2,899,336.32 5,625.02**	**2.80% 10,586.00**		**2.82 1.12**
AGENCY									
3133ENPG9	FEDERAL FARM CREDIT BANKS FUNDING CORP 1.75 02/14/2025	415,000.00	02/10/2022 1.84%	413,891.95 414,986.85	99.92 4.28%	414,674.86 3,368.99	0.40% (311.98)	AAA/AA AA	0.04 0.03
3135G06G3	FEDERAL NATIONAL MORTGAGE ASSOCIATION 0.5 11/07/2025	350,000.00	11/18/2020 0.52%	349,639.50 349,944.56	97.21 4.26%	340,243.43 408.33	0.33% (9,701.12)	AAA/AA AA	0.77 0.74
3130B3A29	FEDERAL HOME LOAN BANKS 4.0 10/09/2026	600,000.00	10/21/2024 4.00%	599,994.00 599,994.85	99.81 4.11%	598,882.24 7,333.33	0.58% (1,112.62)	AAA/AA AA	1.69 1.59
3133ERFJ5	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.5 05/20/2027	330,000.00	05/23/2024 4.79%	327,333.60 327,951.93	100.63 4.21%	332,063.27 2,928.75	0.32% 4,111.34	AAA/AA AA	2.30 2.14
3130ATS57	FEDERAL HOME LOAN BANKS 4.5 03/10/2028	700,000.00	03/21/2023 3.99%	715,799.00 709,862.41	100.60 4.29%	704,213.41 12,337.50	0.68% (5,648.99)	AAA/AA AA	3.11 2.82
3133ERGL9	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.5 06/07/2028	450,000.00	06/25/2024 4.44%	450,984.50 450,834.30	100.60 4.31%	452,682.72 3,037.50	0.44% 1,848.42	AAA/AA AA	3.35 3.06

HOLDINGS REPORT

City of Gardena Cons | Account #10647 | As of January 31, 2025

Cusip	Security Description	Par Value/ Units	Purchase Date Purchase Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody's/ S&P/ Fitch	Maturity Duration
3133EPN50	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.25 12/15/2028	650,000.00	12/28/2023 3.89%	660,575.50 658,242.24	99.73 4.32%	648,265.96 3,529.86	0.63% (9,976.28)	AAA/AA AA	3.87 3.51
Total Agency		**3,495,000.00**	**3.51%**	**3,518,218.05** **3,511,817.13**	**99.90** **4.26%**	**3,491,025.88** **32,944.27**	**3.37%** **(20,791.25)**		**2.37** **2.17**
AGENCY CMBS									
3137BNGT5	FHMS K-054 A2 2.745 01/25/2026	472,678.25	02/15/2023 4.65%	448,841.24 465,059.53	98.36 4.45%	464,913.23 1,081.25	0.45% (146.30)	AAA/AA AAA	0.98 0.87
3137BVZ82	FHMS K-063 A2 3.43 01/25/2027	320,000.00	02/06/2024 4.48%	310,725.00 313,866.39	98.02 4.47%	313,660.93 914.67	0.30% (205.46)	AAA/AA AAA	1.98 1.74
3137FEBQ2	FHMS K-072 A2 3.444 12/25/2027	500,000.00	08/22/2023 4.98%	470,429.69 480,406.59	97.04 4.52%	485,180.65 1,435.00	0.47% 4,774.06	AAA/AA AAA	2.90 2.63
3137FETN0	FHMS K-073 A2 3.35 01/25/2028	465,000.00	05/24/2023 4.27%	446,908.59 453,521.61	96.80 4.50%	450,104.66 1,298.13	0.44% (3,416.95)	AAA/AA AAA	2.98 2.68
3137FHPJ6	FHMS K-080 A2 3.926 07/25/2028	325,000.00	01/23/2024 4.45%	317,814.45 319,466.50	97.89 4.55%	318,149.07 1,063.29	0.31% (1,317.44)	AAA/AA AA	3.48 3.17
3137FJEH8	FHMS K-081 A2 3.9 08/25/2028	155,000.00	09/15/2023 4.86%	148,436.72 150,283.45	97.73 4.56%	151,488.66 503.75	0.15% 1,205.21	AAA/AA AAA	3.57 3.23
3137H4BY5	FHMS K-746 A2 2.031 09/25/2028	315,000.00	10/03/2023 5.30%	270,973.83 282,864.83	91.49 4.61%	288,188.78 533.14	0.28% 5,323.95	AAA/AA AAA	3.65 3.39
3137FJXV6	FHMS K-083 A2 4.05 09/25/2028	297,000.00	12/07/2023 4.60%	289,783.83 291,528.26	98.13 4.57%	291,440.72 1,002.38	0.28% (87.54)	AAA/AA AAA	3.65 3.30
3137FJKE8	FHMS K-082 A2 3.92 09/25/2028	220,000.00	09/20/2024 3.81%	220,575.78 220,524.09	97.77 4.56%	215,097.52 718.67	0.21% (5,426.57)	AAA/AA AAA	3.65 3.26
3137FJZ93	FHMS K-084 A2 3.78 10/25/2028	240,000.00	10/20/2023 5.34%	223,818.75 227,991.95	97.15 4.60%	233,151.79 756.00	0.23% 5,159.84	AAA/AA AA	3.73 3.35
Total Agency CMBS		**3,309,678.25**	**4.67%**	**3,148,307.88** **3,205,513.20**	**97.07** **4.53%**	**3,211,376.00** **9,306.26**	**3.10%** **5,862.80**		**2.88** **2.60**
CASH									
CCYUSD	Receivable	1,096.85	-- 0.00%	1,096.85 1,096.85	1.00 0.00%	1,096.85 0.00	0.00% 0.00	AAA/AAA AAA	0.00 0.00
CCYUSD	Receivable	21,440.99	-- 0.00%	21,440.99 21,440.99	1.00 0.00%	21,440.99 0.00	0.02% 0.00	AAA/AAA AAA	0.00 0.00
Total Cash		**22,537.84**	**0.00%**	**22,537.84** **22,537.84**	**1.00** **0.00%**	**22,537.84** **0.00**	**0.02%** **0.00**		**0.00** **0.00**

HOLDINGS REPORT

CHANDLER ASSET MANAGEMENT

City of Gardena Cons | Account #10647 | As of January 31, 2025

Cusip	Security Description	Par Value/ Units	Purchase Date Purchase Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody's/ S&P/ Fitch	Maturity Duration
CORPORATE									
24422EWB1	JOHN DEERE CAPITAL CORP 2.125 03/07/2025	130,000.00	03/02/2022 2.14%	129,944.10 129,998.27	99.79 4.30%	129,728.98 1,105.00	0.13% (269.29)	A/A A	0.10 0.09
63743HFE7	NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP 3.45 06/15/2025	95,000.00	04/27/2022 3.46%	94,974.35 94,996.98	99.56 4.64%	94,585.75 418.79	0.09% (411.23)	A/A A	0.37 0.36
46625HMN7	JPMORGAN CHASE & CO 3.9 07/15/2025	400,000.00	05/29/2024 5.58%	392,748.00 397,106.26	99.76 4.44%	399,035.47 693.33	0.39% 1,929.21	A/A AA	0.45 0.44
6174468C6	MORGAN STANLEY 4.0 07/23/2025	394,000.00	04/10/2024 5.56%	386,478.56 391,229.79	99.79 4.45%	393,172.77 350.22	0.38% 1,942.98	A/A A	0.47 0.46
931142EW9	WALMART INC 3.9 09/09/2025	80,000.00	09/06/2022 3.92%	79,944.00 79,988.76	99.72 4.37%	79,775.30 1,230.67	0.08% (213.46)	AA/AA AA	0.61 0.58
437076CR1	HOME DEPOT INC 4.0 09/15/2025	110,000.00	09/12/2022 4.01%	109,960.40 109,991.80	99.80 4.33%	109,774.58 1,662.22	0.11% (217.22)	A/A A	0.62 0.59
20030NCS8	COMCAST CORP 3.95 10/15/2025	400,000.00	03/11/2024 4.95%	393,932.00 397,326.32	99.61 4.51%	398,454.63 4,652.22	0.39% 1,128.31	A/A A	0.70 0.68
857477BR3	STATE STREET CORP 1.746 02/06/2026	90,000.00	02/02/2022 1.75%	90,000.00 90,000.00	99.97 4.93%	89,975.82 763.88	0.09% (24.18)	AA/A AA	1.02 0.01
037833BY5	APPLE INC 3.25 02/23/2026	400,000.00	05/09/2023 4.05%	391,672.00 396,837.16	98.93 4.30%	395,722.92 5,705.56	0.38% (1,114.24)	AAA/AA NA	1.06 1.01
61747YET8	MORGAN STANLEY 4.679 07/17/2026	175,000.00	07/18/2022 4.68%	175,000.00 175,000.00	99.95 5.65%	174,920.29 318.43	0.17% (79.71)	A/A A	1.46 0.45
06428CAA2	BANK OF AMERICA NA 5.526 08/18/2026	300,000.00	09/19/2023 5.61%	299,277.00 299,616.71	101.47 4.53%	304,400.61 7,506.15	0.29% 4,783.90	AA/A AA	1.54 1.35
931142ER0	WALMART INC 1.05 09/17/2026	40,000.00	09/08/2021 1.09%	39,924.40 39,975.45	95.03 4.25%	38,013.83 156.33	0.04% (1,961.61)	AA/AA AA	1.63 1.57
63743HFK3	NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP 5.6 11/13/2026	390,000.00	11/14/2023 5.25%	393,666.00 392,136.77	101.71 4.58%	396,667.42 4,732.00	0.38% 4,530.64	A/A A	1.78 1.59
89115A2V3	TORONTO-DOMINION BANK 5.264 12/11/2026	160,000.00	12/04/2023 5.26%	160,000.00 160,000.00	101.10 4.64%	161,754.68 1,169.78	0.16% 1,754.68	A/A AA	1.86 1.74
78016HZT0	ROYAL BANK OF CANADA 4.875 01/19/2027	150,000.00	01/10/2024 4.88%	149,962.50 149,975.47	100.60 4.55%	150,894.45 243.75	0.15% 918.98	A/A AA	1.97 1.85
17275RBQ4	CISCO SYSTEMS INC 4.8 02/26/2027	170,000.00	02/21/2024 4.85%	169,779.00 169,847.76	100.76 4.41%	171,298.78 3,513.33	0.17% 1,451.02	A/AA NA	2.07 1.83

HOLDINGS REPORT

City of Gardena Cons | Account #10647 | As of January 31, 2025

Cusip	Security Description	Par Value/ Units	Purchase Date Purchase Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody's/ S&P/ Fitch	Maturity Duration
857477CL5	STATE STREET CORP 4.993 03/18/2027	365,000.00	03/13/2024 4.99%	365,000.00 365,000.00	100.90 4.54%	368,294.69 6,732.92	0.36% 3,294.69	AA/A AA	2.13 1.89
89115A2W1	TORONTO-DOMINION BANK 4.98 04/05/2027	400,000.00	04/08/2024 5.21%	397,448.00 398,143.36	100.51 4.72%	402,057.97 6,418.67	0.39% 3,914.61	A/A AA	2.18 2.01
665859AW4	NORTHERN TRUST CORP 4.0 05/10/2027	450,000.00	10/05/2022 4.70%	436,909.50 443,532.85	98.85 4.54%	444,837.29 4,050.00	0.43% 1,304.43	A/A A	2.27 2.12
14913UAL4	CATERPILLAR FINANCIAL SERVICES CORP 5.0 05/14/2027	405,000.00	05/21/2024 4.93%	405,743.58 405,569.67	101.15 4.46%	409,649.66 4,331.25	0.40% 4,079.99	A/A A	2.28 2.12
24422EXZ7	JOHN DEERE CAPITAL CORP 4.65 01/07/2028	280,000.00	01/06/2025 4.66%	279,916.00 279,917.77	100.50 4.47%	281,398.74 795.67	0.27% 1,480.98	A/A A	2.93 2.70
438516CJ3	HONEYWELL INTERNATIONAL INC 4.95 02/15/2028	400,000.00	02/13/2023 4.44%	408,972.00 405,388.20	101.34 4.47%	405,342.26 9,130.00	0.39% (45.94)	A/A A	3.04 2.66
57636QAW4	MASTERCARD INC 4.875 03/09/2028	290,000.00	04/19/2023 4.17%	298,833.40 295,551.70	101.05 4.51%	293,055.41 5,576.46	0.28% (2,496.30)	AA/A NA	3.10 2.73
74456QBU9	PUBLIC SERVICE ELECTRIC AND GAS CO 3.7 05/01/2028	300,000.00	09/06/2023 5.10%	282,801.00 287,990.09	97.03 4.70%	291,088.66 2,775.00	0.28% 3,098.57	A/A NA	3.25 2.99
58933YBH7	MERCK & CO INC 4.05 05/17/2028	90,000.00	05/08/2023 4.07%	89,927.10 89,952.08	98.93 4.40%	89,039.08 749.25	0.09% (913.00)	A/A NA	3.29 3.02
69371RS80	PACCAR FINANCIAL CORP 4.6 01/31/2029	410,000.00	01/24/2024 4.64%	409,331.70 409,465.95	99.83 4.65%	409,285.94 52.39	0.40% (180.01)	A/A NA	4.00 3.61
89236TMF9	TOYOTA MOTOR CREDIT CORP 5.05 05/16/2029	400,000.00	06/25/2024 4.88%	402,872.00 402,518.03	100.98 4.79%	403,913.26 4,208.33	0.39% 1,395.23	A/A A	4.29 3.78
341081GT8	FLORIDA POWER & LIGHT CO 5.15 06/15/2029	330,000.00	09/19/2024 4.03%	345,331.80 344,100.11	101.44 4.78%	334,747.81 2,171.58	0.32% (9,352.30)	AA/A AA	4.37 3.72
437076DC3	HOME DEPOT INC 4.75 06/25/2029	295,000.00	-- 4.74%	295,110.25 295,107.15	100.29 4.67%	295,866.96 1,401.25	0.29% 759.81	A/A A	4.40 3.84
713448FX1	PEPSICO INC 4.5 07/17/2029	295,000.00	07/15/2024 4.53%	294,542.75 294,592.58	99.75 4.56%	294,274.11 516.25	0.28% (318.47)	A/A NA	4.46 3.99
26444HAH4	DUKE ENERGY FLORIDA LLC 2.5 12/01/2029	450,000.00	12/16/2024 4.72%	406,363.50 407,472.49	90.25 4.79%	406,119.11 1,875.00	0.39% (1,353.38)	A/A NA	4.83 4.43
Total Corporate		**8,644,000.00**	**4.72%**	**8,576,364.89** **8,598,329.52**	**99.75** **4.58%**	**8,617,147.23** **85,005.68**	**8.33%** **18,817.71**		**2.44** **2.17**
LAIF									
90LAIF$00	Local Agency Investment Fund State Pool	5,700,588.90	-- 4.35%	5,700,588.90 5,700,588.90	1.00 4.35%	5,700,588.90 0.00	5.51% 0.00	NA/NA NA	0.00 0.00

Cusip	Security Description	Par Value/ Units	Purchase Date Purchase Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody's/ S&P/ Fitch	Maturity Duration
				5,700,588.90	**1.00**	**5,700,588.90**	**5.51%**		**0.00**
Total LAIF		**5,700,588.90**	**4.35%**	**5,700,588.90**	**4.35%**	**0.00**	**0.00**		**0.00**
LOCAL GOV INVESTMENT POOL									
09CATR$05	CalTrust MTF	716,721.58	--	7,191,499.71	9.80	7,023,871.52	6.79%	NA/AAA	0.00
			4.18%	7,191,499.71	4.18%	0.00	(167,628.19)	NA	0.00
90CAMP$06	CAMP	1,250,000.00	12/31/2023	1,250,000.00	1.00	1,250,000.00	1.21%	NA/AAA	0.00
			4.54%	1,250,000.00	4.54%	0.00	0.00	NA	0.00
90CAMP$00	CAMP	56,115,807.50	--	56,115,807.50	1.00	56,115,807.50	54.25%	NA/AAA	0.00
			4.54%	56,115,807.50	4.54%	0.00	0.00	AAA	0.00
Total Local Gov Investment Pool		**58,082,529.08**	**4.50%**	**64,557,307.21**	**1.96**	**64,389,679.02**	**62.24%**		**0.00**
				64,557,307.21	**4.50%**	**0.00**	**(167,628.19)**		**0.00**
MONEY MARKET FUND									
31846V203	FIRST AMER:GVT OBLG Y	368,271.04	--	368,271.04	1.00	368,271.04	0.36%	AAA/AAA	0.00
			4.02%	368,271.04	4.02%	0.00	0.00	AAA	0.00
Total Money Market Fund		**368,271.04**	**4.02%**	**368,271.04**	**1.00**	**368,271.04**	**0.36%**		**0.00**
				368,271.04	**4.02%**	**0.00**	**0.00**		**0.00**
SUPRANATIONAL									
459058LK7	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 4.0 08/27/2026	170,000.00	08/20/2024	169,802.80	99.59	169,309.99	0.16%	AAA/AAA	1.57
			4.06%	169,845.48	4.27%	2,908.89	(535.49)	NA	1.48
459058KT9	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 3.5 07/12/2028	250,000.00	11/28/2023	239,372.50	97.30	243,254.29	0.24%	AAA/AAA	3.45
			4.53%	242,076.65	4.35%	461.81	1,177.64	NA	3.19
459058KW2	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 4.625 08/01/2028	250,000.00	--	246,407.00	100.89	252,225.21	0.24%	AAA/AAA	3.50
			4.97%	247,376.27	4.35%	5,781.25	4,848.94	NA	3.20
459058LN1	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 3.875 10/16/2029	300,000.00	10/08/2024	299,217.00	97.75	293,252.03	0.28%	AAA/AAA	4.71
			4.47%	299,263.31	4.41%	3,390.63	(6,011.28)	NA	4.20

Cusip	Security Description	Par Value/ Units	Purchase Date Purchase Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody's/ S&P/ Fitch	Maturity Duration
Total				**954,799.30**	**98.79**	**958,041.52**	**0.93%**		**3.51**
Supranational		**970,000.00**	**4.54%**	**958,561.71**	**4.35%**	**12,542.57**	**(520.19)**		**3.20**
US TREASURY									
912797NS2	UNITED STATES TREASURY 03/25/2025	325,000.00	01/30/2025 4.31%	322,978.45 323,016.59	99.41 4.31%	323,093.02 0.00	0.31% 76.43	A/AAA AAA	0.15 0.14
912828ZF0	UNITED STATES TREASURY 0.5 03/31/2025	350,000.00	03/25/2021 0.58%	348,906.26 349,956.64	99.43 4.24%	347,994.79 596.15	0.34% (1,961.85)	AAA/AA AA	0.16 0.15
912797MV6	UNITED STATES TREASURY 04/03/2025	325,000.00	01/30/2025 4.30%	322,643.57 322,681.58	99.31 4.32%	322,748.71 0.00	0.31% 67.14	A/AAA AAA	0.17 0.16
91282CEH0	UNITED STATES TREASURY 2.625 04/15/2025	450,000.00	04/18/2024 5.18%	439,031.25 447,781.94	99.67 4.31%	448,502.34 3,537.26	0.43% 720.40	AAA/AA AA	0.20 0.19
912828ZT0	UNITED STATES TREASURY 0.25 05/31/2025	365,000.00	02/25/2021 0.60%	359,653.32 364,590.83	98.69 4.38%	360,215.08 157.93	0.35% (4,375.76)	AAA/AA AA	0.33 0.32
91282CEU1	UNITED STATES TREASURY 2.875 06/15/2025	500,000.00	07/30/2024 4.90%	491,425.78 496,398.29	99.47 4.35%	497,339.85 1,895.60	0.48% 941.56	AAA/AA AA	0.37 0.36
91282CEY3	UNITED STATES TREASURY 3.0 07/15/2025	475,000.00	03/15/2024 4.94%	463,273.44 471,026.54	99.42 4.31%	472,263.18 669.20	0.46% 1,236.65	AAA/AA AA	0.45 0.44
9128284Z0	UNITED STATES TREASURY 2.75 08/31/2025	750,000.00	-- 0.99%	800,092.78 757,500.05	99.12 4.34%	743,367.19 8,774.17	0.72% (14,132.86)	AAA/AA AA	0.58 0.55
91282CFK2	UNITED STATES TREASURY 3.5 09/15/2025	475,000.00	03/15/2024 4.90%	465,537.11 471,083.13	99.51 4.32%	472,669.53 6,383.63	0.46% 1,586.41	AAA/AA AA	0.62 0.59
91282CFP1	UNITED STATES TREASURY 4.25 10/15/2025	550,000.00	06/23/2023 4.59%	545,982.42 548,778.50	99.98 4.28%	549,875.39 6,999.66	0.53% 1,096.89	AAA/AA AA	0.70 0.67
91282CAZ4	UNITED STATES TREASURY 0.375 11/30/2025	750,000.00	-- 0.88%	734,730.47 746,936.39	96.87 4.29%	726,521.48 486.78	0.70% (20,414.91)	AAA/AA AA	0.83 0.80
91282CGA3	UNITED STATES TREASURY 4.0 12/15/2025	600,000.00	11/18/2024 4.38%	597,632.81 598,080.82	99.80 4.24%	598,790.62 3,164.84	0.58% 709.80	AAA/AA AA	0.87 0.84
9128286L9	UNITED STATES TREASURY 2.25 03/31/2026	750,000.00	02/25/2022 1.91%	760,078.13 752,857.27	97.79 4.23%	733,388.67 5,748.63	0.71% (19,468.60)	AAA/AA AA	1.16 1.11
912828R36	UNITED STATES TREASURY 1.625 05/15/2026	250,000.00	10/14/2021 0.99%	257,148.44 251,999.68	96.78 4.24%	241,943.36 875.35	0.23% (10,056.32)	AAA/AA AA	1.28 1.24
91282CHH7	UNITED STATES TREASURY 4.125 06/15/2026	475,000.00	08/26/2024 3.94%	476,502.93 476,141.49	99.88 4.21%	474,424.80 2,583.79	0.46% (1,716.69)	AAA/AA AA	1.37 1.31
912828YG9	UNITED STATES TREASURY 1.625 09/30/2026	300,000.00	12/28/2021 1.24%	305,296.88 301,849.03	95.91 4.21%	287,742.19 1,660.71	0.28% (14,106.84)	AAA/AA AA	1.66 1.60

HOLDINGS REPORT

City of Gardena Cons | Account #10647 | As of January 31, 2025

Cusip	Security Description	Par Value/ Units	Purchase Date Purchase Yield	Cost Value Book Value	Mkt Price Mkt YTM	Market Value Accrued Int.	% of Port. Gain/Loss	Moody's/ S&P/ Fitch	Maturity Duration
91282CJC6	UNITED STATES TREASURY 4.625 10/15/2026	475,000.00	08/26/2024 3.84%	482,514.65 480,990.50	100.65 4.22%	478,080.08 6,578.55	0.46% (2,910.42)	AAA/AA AA	1.70 1.59
912828U24	UNITED STATES TREASURY 2.0 11/15/2026	625,000.00	03/29/2022 2.55%	609,912.11 619,182.55	96.23 4.22%	601,440.43 2,693.37	0.58% (17,742.12)	AAA/AA AA	1.79 1.71
91282CJP7	UNITED STATES TREASURY 4.375 12/15/2026	300,000.00	12/27/2023 4.02%	302,906.25 301,830.16	100.28 4.21%	300,843.90 1,730.77	0.29% (986.26)	AAA/AA AA	1.87 1.76
91282CEF4	UNITED STATES TREASURY 2.5 03/31/2027	750,000.00	-- 4.27%	736,449.21 743,929.70	96.53 4.20%	723,955.08 6,387.36	0.70% (19,974.62)	AAA/AA AA	2.16 2.05
912828X88	UNITED STATES TREASURY 2.375 05/15/2027	350,000.00	06/09/2022 3.08%	338,666.02 344,754.89	96.02 4.23%	336,054.69 1,791.09	0.32% (8,700.20)	AAA/AA AA	2.28 2.17
91282CKZ3	UNITED STATES TREASURY 4.375 07/15/2027	1,000,000.00	11/18/2024 4.29%	1,002,070.31 1,001,912.04	100.36 4.22%	1,003,554.69 2,054.56	0.97% 1,642.65	AAA/AA AA	2.45 2.29
91282CFM8	UNITED STATES TREASURY 4.125 09/30/2027	570,000.00	10/26/2022 4.19%	568,419.14 569,146.74	99.77 4.22%	568,686.33 8,009.75	0.55% (460.41)	AAA/AA AA	2.66 2.45
9128283F5	UNITED STATES TREASURY 2.25 11/15/2027	800,000.00	12/20/2022 3.84%	743,625.00 767,970.18	94.84 4.24%	758,687.50 3,878.45	0.73% (9,282.68)	AAA/AA AA	2.79 2.64
91282CGC9	UNITED STATES TREASURY 3.875 12/31/2027	500,000.00	05/25/2023 3.98%	497,890.63 498,665.32	99.04 4.23%	495,195.31 1,712.71	0.48% (3,470.01)	AAA/AA AA	2.91 2.71
91282CGT2	UNITED STATES TREASURY 3.625 03/31/2028	600,000.00	01/10/2025 4.46%	585,117.19 585,358.26	98.16 4.25%	588,984.37 7,409.34	0.57% 3,626.11	AAA/AA AA	3.16 2.91
912828YB0	UNITED STATES TREASURY 1.625 08/15/2029	150,000.00	09/24/2024 3.49%	137,542.97 138,443.23	89.14 4.29%	133,710.94 1,126.02	0.13% (4,732.29)	AAA/AA AA	4.54 4.25
91282CMA6	UNITED STATES TREASURY 4.125 11/30/2029	200,000.00	12/17/2024 4.25%	198,929.69 198,956.33	99.13 4.33%	198,250.00 1,427.88	0.19% (706.33)	AAA/AA AA	4.83 4.30
Total US Treasury		**14,010,000.00**	**3.42%**	**13,894,957.21** **13,931,818.68**	**98.45** **4.26%**	**13,788,323.53** **88,333.56**	**13.33%** **(143,495.15)**		**1.53** **1.43**
Total Portfolio		**97,492,504.65**	**4.34%**	**103,628,687.93** **103,743,495.55**	**32.82** **4.46%**	**103,446,327.30** **233,757.37**	**100.00%** **(297,168.26)**		**0.69** **0.59**
Total Market Value + Accrued						**103,680,084.67**			

TRANSACTION LEDGER

City of Gardena Cons | Account #10647 | As of January 31, 2025

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/ Sold	Total Amount	Gain/Loss
ACQUISITIONS										
Purchase	01/03/2025	31846V203	801.21	FIRST AMER:GVT OBLG Y	1.000	4.09%	(801.21)	0.00	(801.21)	0.00
Purchase	01/06/2025	31846V203	754,218.75	FIRST AMER:GVT OBLG Y	1.000	4.09%	(754,218.75)	0.00	(754,218.75)	0.00
Purchase	01/09/2025	24422EXZ7	280,000.00	JOHN DEERE CAPITAL CORP 4.65 01/07/2028	99.970	4.66%	(279,916.00)	0.00	(279,916.00)	0.00
Purchase	01/13/2025	31846V203	4,375.00	FIRST AMER:GVT OBLG Y	1.000	4.09%	(4,375.00)	0.00	(4,375.00)	0.00
Purchase	01/13/2025	91282CGT2	600,000.00	UNITED STATES TREASURY 3.625 03/31/2028	97.520	4.46%	(585,117.19)	(6,274.04)	(591,391.23)	0.00
Purchase	01/15/2025	31846V203	102,736.03	FIRST AMER:GVT OBLG Y	1.000	4.09%	(102,736.03)	0.00	(102,736.03)	0.00
Purchase	01/15/2025	90LAIF$00	65,537.19	Local Agency Investment Fund State Pool	1.000	4.36%	(65,537.19)	0.00	(65,537.19)	0.00
Purchase	01/16/2025	31846V203	776.71	FIRST AMER:GVT OBLG Y	1.000	4.09%	(776.71)	0.00	(776.71)	0.00
Purchase	01/16/2025	31846V203	5,411.91	FIRST AMER:GVT OBLG Y	1.000	4.09%	(5,411.91)	0.00	(5,411.91)	0.00
Purchase	01/17/2025	31846V203	10,731.63	FIRST AMER:GVT OBLG Y	1.000	4.09%	(10,731.63)	0.00	(10,731.63)	0.00
Purchase	01/21/2025	31846V203	14,807.67	FIRST AMER:GVT OBLG Y	1.000	4.09%	(14,807.67)	0.00	(14,807.67)	0.00
Purchase	01/21/2025	31846V203	3,656.25	FIRST AMER:GVT OBLG Y	1.000	4.09%	(3,656.25)	0.00	(3,656.25)	0.00
Purchase	01/23/2025	31846V203	7,880.00	FIRST AMER:GVT OBLG Y	1.000	4.09%	(7,880.00)	0.00	(7,880.00)	0.00
Purchase	01/27/2025	31846V203	21,709.18	FIRST AMER:GVT OBLG Y	1.000	4.09%	(21,709.18)	0.00	(21,709.18)	0.00
Purchase	01/27/2025	31846V203	21,350.66	FIRST AMER:GVT OBLG Y	1.000	4.09%	(21,350.66)	0.00	(21,350.66)	0.00
Purchase	01/29/2025	90CAMP$00	20,000,000.00	CAMP	1.000	0.00%	(20,000,000.00)	0.00	(20,000,000.00)	0.00
Purchase	01/31/2025	90CAMP$00	146,529.92	CAMP	1.000	0.00%	(146,529.92)	0.00	(146,529.92)	0.00
Purchase	01/31/2025	09CATR$05	2,500.62	CalTrust MTF	9.800	0.00%	(24,506.08)	0.00	(24,506.08)	0.00
Purchase	01/31/2025	31846V203	118,964.23	FIRST AMER:GVT OBLG Y	1.000	4.02%	(118,964.23)	0.00	(118,964.23)	0.00
Purchase	01/31/2025	912797MV6	325,000.00	UNITED STATES TREASURY 04/03/2025	99.275	4.30%	(322,643.57)	0.00	(322,643.57)	0.00
Purchase	01/31/2025	912797NS2	325,000.00	UNITED STATES TREASURY 03/25/2025	99.378	4.31%	(322,978.45)	0.00	(322,978.45)	0.00
Total Purchase			**22,811,986.96**				**(22,814,647.63)**	**(6,274.04)**	**(22,820,921.67)**	**0.00**
TOTAL ACQUISITIONS			**22,811,986.96**				**(22,814,647.63)**	**(6,274.04)**	**(22,820,921.67)**	**0.00**
OTHER TRANSACTIONS										

TRANSACTION LEDGER

City of Gardena Cons | Account #10647 | As of January 31, 2025

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/ Sold	Total Amount	Gain/Loss
Maturity	01/06/2025	3133ENKS8	(750,000.00)	FEDERAL FARM CREDIT BANKS FUNDING CORP 1.125 01/06/2025	100.000	1.13%	750,000.00	0.00	750,000.00	0.00
Maturity	01/31/2025	912828Z52	(750,000.00)	UNITED STATES TREASURY 1.375 01/31/2025	100.000	1.38%	750,000.00	0.00	750,000.00	0.00
Total Maturity			**(1,500,000.00)**				**1,500,000.00**	**0.00**	**1,500,000.00**	**0.00**
Sale	01/09/2025	31846V203	(279,916.00)	FIRST AMER:GVT OBLG Y	1.000	4.09%	279,916.00	0.00	279,916.00	0.00
Sale	01/13/2025	31846V203	(591,391.23)	FIRST AMER:GVT OBLG Y	1.000	4.09%	591,391.23	0.00	591,391.23	0.00
Total Sale			**(871,307.23)**				**871,307.23**	**0.00**	**871,307.23**	**0.00**
TOTAL OTHER TRANSACTIONS			**(2,371,307.23)**				**2,371,307.23**	**0.00**	**2,371,307.23**	**0.00**
OTHER TRANSACTIONS										
Cash Transfer	01/29/2025	CCYUSD	20,000,000.00	Cash		0.00%	20,000,000.00	0.00	20,000,000.00	0.00
Cash Transfer	01/31/2025	CCYUSD	(5,318.88)	Cash		0.00%	(5,318.88)	0.00	(5,318.88)	0.00
Total Cash Transfer			**19,994,681.12**				**19,994,681.12**	**0.00**	**19,994,681.12**	**0.00**
Coupon	01/01/2025	3137FJKE8	0.00	FHMS K-082 A2 3.92 09/25/2028		3.80%	718.67	0.00	718.67	0.00
Coupon	01/01/2025	3137FETN0	0.00	FHMS K-073 A2 3.35 01/25/2028		4.22%	1,298.12	0.00	1,298.12	0.00
Coupon	01/01/2025	3137BNGT5	0.00	FHMS K-054 A2 2.745 01/25/2026		4.42%	1,115.80	0.00	1,115.80	0.00
Coupon	01/01/2025	3137FHPJ6	0.00	FHMS K-080 A2 3.926 07/25/2028		4.42%	1,063.29	0.00	1,063.29	0.00
Coupon	01/01/2025	3137BVZ82	0.00	FHMS K-063 A2 3.43 01/25/2027		4.43%	914.67	0.00	914.67	0.00
Coupon	01/01/2025	3137FJXV6	0.00	FHMS K-083 A2 4.05 09/25/2028		4.57%	1,002.38	0.00	1,002.38	0.00
Coupon	01/01/2025	3137FJEH8	0.00	FHMS K-081 A2 3.9 08/25/2028		4.81%	503.75	0.00	503.75	0.00
Coupon	01/01/2025	3137FEBQ2	0.00	FHMS K-072 A2 3.444 12/25/2027		4.90%	1,435.00	0.00	1,435.00	0.00

TRANSACTION LEDGER

City of Gardena Cons | Account #10647 | As of January 31, 2025

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/ Sold	Total Amount	Gain/Loss
Coupon	01/01/2025	3137H4BY5	0.00	FHMS K-746 A2 2.031 09/25/2028		5.17%	533.14	0.00	533.14	0.00
Coupon	01/01/2025	3137FJZ93	0.00	FHMS K-084 A2 3.78 10/25/2028		5.27%	756.00	0.00	756.00	0.00
Coupon	01/06/2025	3133ENKS8	0.00	FEDERAL FARM CREDIT BANKS FUNDING CORP 1.125 01/06/2025		1.13%	4,218.75	0.00	4,218.75	0.00
Coupon	01/12/2025	459058KT9	0.00	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 3.5 07/12/2028		4.53%	4,375.00	0.00	4,375.00	0.00
Coupon	01/15/2025	47789QAC4	0.00	JDOT 2021-B A3 0.52 03/16/2026		0.53%	3.84	0.00	3.84	0.00
Coupon	01/15/2025	89238JAC9	0.00	TAOT 2021-D A3 0.71 04/15/2026		0.71%	6.49	0.00	6.49	0.00
Coupon	01/15/2025	43815BAC4	0.00	HAROT 2022-1 A3 1.88 05/15/2026		1.90%	81.54	0.00	81.54	0.00
Coupon	01/15/2025	47787JAC2	0.00	JDOT 2022 A3 0.36 09/15/2026		2.35%	73.58	0.00	73.58	0.00
Coupon	01/15/2025	89238FAD5	0.00	TAOT 2022-B A3 2.93 09/15/2026		2.95%	113.57	0.00	113.57	0.00
Coupon	01/15/2025	02582JJT8	0.00	AMXCA 2022-2 A 3.39 05/17/2027		3.42%	522.63	0.00	522.63	0.00
Coupon	01/15/2025	47800AAC4	0.00	JDOT 2022-B A3 3.74 02/16/2027		3.78%	256.85	0.00	256.85	0.00
Coupon	01/15/2025	58769GAD5	0.00	MBALT 2024-B A3 4.23 02/15/2028		4.28%	458.25	0.00	458.25	0.00
Coupon	01/15/2025	91282CKZ3	0.00	UNITED STATES TREASURY 4.375 07/15/2027		4.29%	21,875.00	0.00	21,875.00	0.00
Coupon	01/15/2025	89239TAD4	0.00	TAOT 2024-D A3 4.4 06/15/2029		4.44%	385.00	0.00	385.00	0.00
Coupon	01/15/2025	448976AD2	0.00	HART 2024-C A3 4.41 05/15/2029		4.45%	514.50	0.00	514.50	0.00
Coupon	01/15/2025	58770AAC7	0.00	MBART 2023-1 A3 4.51 11/15/2027		4.56%	321.58	0.00	321.58	0.00

TRANSACTION LEDGER

City of Gardena Cons | Account #10647 | As of January 31, 2025

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/ Sold	Total Amount	Gain/Loss
Coupon	01/15/2025	448979AD6	0.00	HART 2023-A A3 4.58 04/15/2027		4.63%	555.29	0.00	555.29	0.00
Coupon	01/15/2025	44934QAD3	0.00	HART 2024-B A3 4.84 03/15/2029		4.90%	363.00	0.00	363.00	0.00
Coupon	01/15/2025	02582JJZ4	0.00	AMXCA 2023-1 A 4.87 05/15/2026		4.92%	507.29	0.00	507.29	0.00
Coupon	01/15/2025	91282CEY3	0.00	UNITED STATES TREASURY 3.0 07/15/2025		4.94%	7,125.00	0.00	7,125.00	0.00
Coupon	01/15/2025	47800BAC2	0.00	JDOT 2022-C A3 5.09 06/15/2027		5.15%	711.27	0.00	711.27	0.00
Coupon	01/15/2025	161571HT4	0.00	CHAIT 2023-1 A 5.16 09/15/2028		5.23%	1,462.00	0.00	1,462.00	0.00
Coupon	01/15/2025	02582JKD1	0.00	AMXCA 2023-3 A 5.23 09/15/2028		5.29%	1,481.83	0.00	1,481.83	0.00
Coupon	01/15/2025	47787CAC7	0.00	JDOT 2023-C A3 5.48 05/15/2028		5.55%	1,415.67	0.00	1,415.67	0.00
Coupon	01/15/2025	46625HMN7	0.00	JPMORGAN CHASE & CO 3.9 07/15/2025		5.58%	7,800.00	0.00	7,800.00	0.00
Coupon	01/16/2025	36265WAD5	0.00	GMCAR 2022-3 A3 3.64 04/16/2027		3.67%	162.58	0.00	162.58	0.00
Coupon	01/16/2025	38014AAD3	0.00	GMCAR 2024-4 A3 4.4 08/16/2029		4.45%	348.33	0.00	348.33	0.00
Coupon	01/16/2025	362583AD8	0.00	GMCAR 2023-2 A3 4.47 02/16/2028		4.51%	428.38	0.00	428.38	0.00
Coupon	01/17/2025	713448FX1	0.00	PEPSICO INC 4.5 07/17/2029		4.53%	6,637.50	0.00	6,637.50	0.00
Coupon	01/17/2025	61747YET8	0.00	MORGAN STANLEY 4.679 07/17/2026		4.68%	4,094.13	0.00	4,094.13	0.00
Coupon	01/18/2025	43815PAC3	0.00	HAROT 2022-2 A3 3.73 07/20/2026		3.76%	169.43	0.00	169.43	0.00
Coupon	01/19/2025	78016HZT0	0.00	ROYAL BANK OF CANADA 4.875 01/19/2027		4.88%	3,656.25	0.00	3,656.25	0.00
Coupon	01/20/2025	379929AD4	0.00	GMALT 2023-3 A3 5.38 11/20/2026		5.45%	336.25	0.00	336.25	0.00

TRANSACTION LEDGER

City of Gardena Cons | Account #10647 | As of January 31, 2025

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/ Sold	Total Amount	Gain/Loss
Coupon	01/21/2025	43815GAC3	0.00	HAROT 2021-4 A3 0.88 01/21/2026		0.90%	9.78	0.00	9.78	0.00
Coupon	01/21/2025	43815JAC7	0.00	HAROT 2023-1 A3 5.04 04/21/2027		5.11%	279.40	0.00	279.40	0.00
Coupon	01/23/2025	6174468C6	0.00	MORGAN STANLEY 4.0 07/23/2025		5.56%	7,880.00	0.00	7,880.00	0.00
Coupon	01/25/2025	05593AAC3	0.00	BMWLT 2023-1 A3 5.16 11/25/2025		5.22%	44.18	0.00	44.18	0.00
Coupon	01/25/2025	05602RAD3	0.00	BMWOT 2022-A A3 3.21 08/25/2026		6.38%	263.02	0.00	263.02	0.00
Coupon	01/31/2025	912828Z52	0.00	UNITED STATES TREASURY 1.375 01/31/2025		1.38%	5,156.25	0.00	5,156.25	0.00
Coupon	01/31/2025	69371RS80	0.00	PACCAR FINANCIAL CORP 4.6 01/31/2029		4.64%	9,430.00	0.00	9,430.00	0.00
Total Coupon			**0.00**				**102,864.23**	**0.00**	**102,864.23**	**0.00**
Dividend	01/15/2025	90LAIF$00	0.00	Local Agency Investment Fund State Pool		4.38%	1,843.03	0.00	1,843.03	0.00
Dividend	01/31/2025	90CAMP$00	0.00	CAMP		0.00%	146,529.92	0.00	146,529.92	0.00
Dividend	01/31/2025	09CATR$05	0.00	CalTrust MTF		0.00%	24,506.12	0.00	24,506.12	0.00
Dividend	01/31/2025	90CAMP$06	0.00	CAMP		0.00%	5,318.84	0.00	5,318.84	0.00
Dividend	01/31/2025	31846V203	0.00	FIRST AMER:GVT OBLG Y		4.03%	1,096.85	0.00	1,096.85	0.00
Total Dividend			**0.00**				**179,294.76**	**0.00**	**179,294.76**	**0.00**
Principal Paydown	01/01/2025	3137BNGT5	15,101.48	FHMS K-054 A2 2.745 01/25/2026		4.42%	15,101.48	--	15,101.48	0.00
Principal Paydown	01/15/2025	47789QAC4	2,263.67	JDOT 2021-B A3 0.52 03/16/2026		0.53%	2,263.67	--	2,263.67	(0.00)
Principal Paydown	01/15/2025	89238JAC9	2,475.48	TAOT 2021-D A3 0.71 04/15/2026		0.71%	2,475.48	--	2,475.48	(0.00)
Principal Paydown	01/15/2025	43815BAC4	7,503.73	HAROT 2022-1 A3 1.88 05/15/2026		1.90%	7,503.73	--	7,503.73	(0.00)
Principal Paydown	01/15/2025	47787JAC2	4,855.00	JDOT 2022 A3 0.36 09/15/2026		2.35%	4,855.00	--	4,855.00	(0.00)
Principal Paydown	01/15/2025	89238FAD5	5,219.99	TAOT 2022-B A3 2.93 09/15/2026		2.95%	5,219.99	--	5,219.99	0.00

TRANSACTION LEDGER

City of Gardena Cons | Account #10647 | As of January 31, 2025

Transaction Type	Settlement Date	CUSIP	Quantity	Security Description	Price	Acq/Disp Yield	Amount	Interest Pur/ Sold	Total Amount	Gain/Loss
Principal Paydown	01/15/2025	47800AAC4	6,717.12	JDOT 2022-B A3 3.74 02/16/2027		3.78%	6,717.12	--	6,717.12	(0.01)
Principal Paydown	01/15/2025	58770AAC7	6,247.95	MBART 2023-1 A3 4.51 11/15/2027		4.56%	6,247.95	--	6,247.95	0.00
Principal Paydown	01/15/2025	448979AD6	11,182.68	HART 2023-A A3 4.58 04/15/2027		4.63%	11,182.68	--	11,182.68	(0.00)
Principal Paydown	01/15/2025	47800BAC2	10,236.23	JDOT 2022-C A3 5.09 06/15/2027		5.15%	10,236.23	--	10,236.23	0.00
Principal Paydown	01/16/2025	36265WAD5	5,249.33	GMCAR 2022-3 A3 3.64 04/16/2027		3.67%	5,249.33	--	5,249.33	0.00
Principal Paydown	01/18/2025	43815PAC3	6,028.70	HAROT 2022-2 A3 3.73 07/20/2026		3.76%	6,028.70	--	6,028.70	(0.00)
Principal Paydown	01/21/2025	43815GAC3	3,071.59	HAROT 2021-4 A3 0.88 01/21/2026		0.90%	3,071.59	--	3,071.59	0.00
Principal Paydown	01/21/2025	43815JAC7	4,912.52	HAROT 2023-1 A3 5.04 04/21/2027		5.11%	4,912.52	--	4,912.52	0.00
Principal Paydown	01/25/2025	05593AAC3	4,846.50	BMWLT 2023-1 A3 5.16 11/25/2025		5.22%	4,846.50	--	4,846.50	0.00
Principal Paydown	01/25/2025	05602RAD3	13,463.84	BMWOT 2022-A A3 3.21 08/25/2026		6.41%	13,463.84	--	13,463.84	(0.00)
Total Principal Paydown			**109,375.81**				**109,375.81**	**--**	**109,375.81**	**(0.00)**
TOTAL OTHER TRANSACTIONS			**20,104,056.93**				**20,386,215.92**	**0.00**	**20,386,215.92**	**(0.00)**

INCOME EARNED

City of Gardena Cons | Account #10647 | As of January 31, 2025

Cusip	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
CASH & EQUIVALENTS						
31846V203	FIRST AMER:GVT OBLG Y	368,271.04	172,159.04 1,067,419.23 (871,307.23) 368,271.04	0.00 801.21 0.00 801.21	0.00 0.00 0.00 801.21	801.21
912797MV6	UNITED STATES TREASURY 04/03/2025	01/30/2025 01/31/2025 325,000.00	0.00 322,643.57 0.00 322,681.58	0.00 0.00 0.00 0.00	38.01 0.00 38.01 38.01	38.01
912797NS2	UNITED STATES TREASURY 03/25/2025	01/30/2025 01/31/2025 325,000.00	0.00 322,978.45 0.00 323,016.59	0.00 0.00 0.00 0.00	38.14 0.00 38.14 38.14	38.14
CCYUSD	Receivable	22,537.84	64,495.37 0.00 0.00 22,537.84	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00
Total Cash & Equivalents		**1,040,808.88**	**236,654.41** **1,713,041.25** **(871,307.23)** **1,036,507.05**	**0.00** **801.21** **0.00** **801.21**	**76.15** **0.00** **76.15** **877.36**	**877.36**
FIXED INCOME						
02582JJT8	AMXCA 2022-2 A 3.39 05/17/2027	05/17/2022 05/24/2022 185,000.00	184,992.96 0.00 0.00 184,994.59	278.73 522.63 278.73 522.63	1.63 0.00 1.63 524.26	524.26
02582JJZ4	AMXCA 2023-1 A 4.87 05/15/2026	06/07/2023 06/14/2023 125,000.00	124,993.29 0.00 0.00 124,993.71	270.56 507.29 270.56 507.29	0.42 0.00 0.42 507.71	507.71
02582JKD1	AMXCA 2023-3 A 5.23 09/15/2028	09/12/2023 09/19/2023 340,000.00	339,988.72 0.00 0.00 339,988.98	790.31 1,481.83 790.31 1,481.83	0.26 0.00 0.26 1,482.09	1,482.09

INCOME EARNED

City of Gardena Cons | Account #10647 | As of January 31, 2025

Cusip	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
037833BY5	APPLE INC 3.25 02/23/2026	05/09/2023 05/11/2023 400,000.00	396,583.80 0.00 0.00 396,837.16	4,622.22 0.00 5,705.56 1,083.33	253.35 0.00 253.35 1,336.69	1,336.69
05593AAC3	BMWLT 2023-1 A3 5.16 11/25/2025	02/07/2023 02/15/2023 5,428.52	10,274.94 0.00 (4,846.50) 5,428.48	8.84 44.18 4.67 40.01	0.04 0.00 0.04 40.05	40.05
05602RAD3	BMWOT 2022-A A3 3.21 08/25/2026	01/05/2023 01/09/2023 84,862.30	97,178.50 0.00 (13,463.84) 83,922.90	52.60 263.02 45.40 255.82	208.24 0.00 208.24 464.05	464.05
06428CAA2	BANK OF AMERICA NA 5.526 08/18/2026	09/19/2023 09/21/2023 300,000.00	299,595.61 0.00 0.00 299,616.71	6,124.65 0.00 7,506.15 1,381.50	21.10 0.00 21.10 1,402.60	1,402.60
14913UAL4	CATERPILLAR FINANCIAL SERVICES CORP 5.0 05/14/2027	05/21/2024 05/23/2024 405,000.00	405,590.89 0.00 0.00 405,569.67	2,643.75 0.00 4,331.25 1,687.50	0.00 (21.23) (21.23) 1,666.27	1,666.27
161571HT4	CHAIT 2023-1 A 5.16 09/15/2028	09/07/2023 09/15/2023 340,000.00	339,930.20 0.00 0.00 339,931.80	779.73 1,462.00 779.73 1,462.00	1.60 0.00 1.60 1,463.60	1,463.60
17275RBQ4	CISCO SYSTEMS INC 4.8 02/26/2027	02/21/2024 02/26/2024 170,000.00	169,841.51 0.00 0.00 169,847.76	2,833.33 0.00 3,513.33 680.00	6.25 0.00 6.25 686.25	686.25
20030NCS8	COMCAST CORP 3.95 10/15/2025	03/11/2024 03/13/2024 400,000.00	397,002.55 0.00 0.00 397,326.32	3,335.56 0.00 4,652.22 1,316.67	323.77 0.00 323.77 1,640.43	1,640.43
24422EWB1	JOHN DEERE CAPITAL CORP 2.125 03/07/2025	03/02/2022 03/07/2022 130,000.00	129,996.68 0.00 0.00 129,998.27	874.79 0.00 1,105.00 230.21	1.58 0.00 1.58 231.79	231.79

INCOME EARNED

City of Gardena Cons | Account #10647 | As of January 31, 2025

Cusip	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
24422EXZ7	JOHN DEERE CAPITAL CORP 4.65 01/07/2028	01/06/2025 01/09/2025 280,000.00	0.00 279,916.00 0.00 279,917.77	0.00 0.00 795.67 795.67	1.77 0.00 1.77 797.43	797.43
26444HAH4	DUKE ENERGY FLORIDA LLC 2.5 12/01/2029	12/16/2024 12/17/2024 450,000.00	406,725.13 0.00 0.00 407,472.49	937.50 0.00 1,875.00 937.50	747.37 0.00 747.37 1,684.87	1,684.87
3130ATS57	FEDERAL HOME LOAN BANKS 4.5 03/10/2028	03/21/2023 03/22/2023 700,000.00	710,132.25 0.00 0.00 709,862.41	9,712.50 0.00 12,337.50 2,625.00	0.00 (269.85) (269.85) 2,355.15	2,355.15
3130B3A29	FEDERAL HOME LOAN BANKS 4.0 10/09/2026	10/21/2024 10/22/2024 600,000.00	599,994.59 0.00 0.00 599,994.85	5,333.33 0.00 7,333.33 2,000.00	0.26 0.00 0.26 2,000.26	2,000.26
3133ENKS8	FEDERAL FARM CREDIT BANKS FUNDING CORP 1.125 01/06/2025	0.00	749,952.85 0.00 (750,000.00) 0.00	4,101.56 4,218.75 0.00 117.19	47.15 0.00 47.15 164.34	164.34
3133ENPG9	FEDERAL FARM CREDIT BANKS FUNDING CORP 1.75 02/14/2025	02/10/2022 02/15/2022 415,000.00	414,955.48 0.00 0.00 414,986.85	2,763.78 0.00 3,368.99 605.21	31.37 0.00 31.37 636.58	636.58
3133EPN50	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.25 12/15/2028	12/28/2023 12/29/2023 650,000.00	658,423.07 0.00 0.00 658,242.24	1,227.78 0.00 3,529.86 2,302.08	0.00 (180.83) (180.83) 2,121.26	2,121.26
3133ERFJ5	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.5 05/20/2027	05/23/2024 05/24/2024 330,000.00	327,876.17 0.00 0.00 327,951.93	1,691.25 0.00 2,928.75 1,237.50	75.76 0.00 75.76 1,313.26	1,313.26
3133ERGL9	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.5 06/07/2028	06/25/2024 06/26/2024 450,000.00	450,855.46 0.00 0.00 450,834.30	1,350.00 0.00 3,037.50 1,687.50	0.00 (21.16) (21.16) 1,666.34	1,666.34

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3135G06G3	FEDERAL NATIONAL MORTGAGE ASSOCIATION 0.5 11/07/2025	11/18/2020 11/19/2020 350,000.00	349,938.39 0.00 0.00 349,944.56	262.50 0.00 408.33 145.83	6.16 0.00 6.16 151.99	151.99
3137BNGT5	FHMS K-054 A2 2.745 01/25/2026	02/15/2023 02/21/2023 472,678.25	479,187.88 0.00 (15,101.48) 465,059.53	1,115.80 1,115.80 1,081.25 1,081.26	973.13 0.00 973.13 2,054.38	2,054.38
3137BVZ82	FHMS K-063 A2 3.43 01/25/2027	02/06/2024 02/09/2024 320,000.00	313,594.37 0.00 0.00 313,866.39	914.67 914.67 914.67 914.67	272.02 0.00 272.02 1,186.69	1,186.69
3137FEBQ2	FHMS K-072 A2 3.444 12/25/2027	08/22/2023 08/25/2023 500,000.00	479,818.60 0.00 0.00 480,406.59	1,435.00 1,435.00 1,435.00 1,435.00	587.99 0.00 587.99 2,022.99	2,022.99
3137FETN0	FHMS K-073 A2 3.35 01/25/2028	05/24/2023 05/30/2023 465,000.00	453,187.18 0.00 0.00 453,521.61	1,298.13 1,298.12 1,298.13 1,298.12	334.43 0.00 334.43 1,632.55	1,632.55
3137FHPJ6	FHMS K-080 A2 3.926 07/25/2028	01/23/2024 01/26/2024 325,000.00	319,328.83 0.00 0.00 319,466.50	1,063.29 1,063.29 1,063.29 1,063.29	137.67 0.00 137.67 1,200.96	1,200.96
3137FJEH8	FHMS K-081 A2 3.9 08/25/2028	09/15/2023 09/20/2023 155,000.00	150,168.95 0.00 0.00 150,283.45	503.75 503.75 503.75 503.75	114.50 0.00 114.50 618.25	618.25
3137FJKE8	FHMS K-082 A2 3.92 09/25/2028	09/20/2024 09/25/2024 220,000.00	220,536.51 0.00 0.00 220,524.09	718.67 718.67 718.67 718.67	0.00 (12.42) (12.42) 706.25	706.25
3137FJXV6	FHMS K-083 A2 4.05 09/25/2028	12/07/2023 12/12/2023 297,000.00	291,398.58 0.00 0.00 291,528.26	1,002.38 1,002.38 1,002.38 1,002.38	129.68 0.00 129.68 1,132.06	1,132.06

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3137FJZ93	FHMS K-084 A2 3.78 10/25/2028	10/20/2023 10/25/2023 240,000.00	227,713.74 0.00 0.00 227,991.95	756.00 756.00 756.00 756.00	278.21 0.00 278.21 1,034.21	1,034.21
3137H4BY5	FHMS K-746 A2 2.031 09/25/2028	10/03/2023 10/06/2023 315,000.00	282,103.21 0.00 0.00 282,864.83	533.14 533.14 533.14 533.14	761.61 0.00 761.61 1,294.75	1,294.75
341081GT8	FLORIDA POWER & LIGHT CO 5.15 06/15/2029	09/19/2024 09/20/2024 330,000.00	344,385.05 0.00 0.00 344,100.11	755.33 0.00 2,171.58 1,416.25	0.00 (284.94) (284.94) 1,131.31	1,131.31
362583AD8	GMCAR 2023-2 A3 4.47 02/16/2028	04/04/2023 04/12/2023 115,000.00	114,997.97 0.00 0.00 114,998.02	214.19 428.38 214.19 428.38	0.06 0.00 0.06 428.44	428.44
36265WAD5	GMCAR 2022-3 A3 3.64 04/16/2027	07/06/2022 07/13/2022 48,349.15	53,598.33 0.00 (5,249.33) 48,349.02	81.29 162.58 73.33 154.62	0.02 0.00 0.02 154.64	154.64
379929AD4	GMALT 2023-3 A3 5.38 11/20/2026	08/08/2023 08/16/2023 75,000.00	74,994.81 0.00 0.00 74,995.05	123.29 336.25 123.29 336.25	0.23 0.00 0.23 336.48	336.48
38014AAD3	GMCAR 2024-4 A3 4.4 08/16/2029	10/08/2024 10/16/2024 95,000.00	94,982.50 0.00 0.00 94,982.82	174.17 348.33 174.17 348.33	0.32 0.00 0.32 348.65	348.65
437076CR1	HOME DEPOT INC 4.0 09/15/2025	09/12/2022 09/19/2022 110,000.00	109,990.68 0.00 0.00 109,991.80	1,295.56 0.00 1,662.22 366.67	1.12 0.00 1.12 367.79	367.79
437076DC3	HOME DEPOT INC 4.75 06/25/2029	295,000.00	295,109.57 0.00 0.00 295,107.15	233.54 0.00 1,401.25 1,167.71	15.88 (18.30) (2.42) 1,165.29	1,165.29

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43815BAC4	HAROT 2022-1 A3 1.88 05/15/2026	02/15/2022 02/23/2022 44,539.92	52,041.37 0.00 (7,503.73) 44,538.08	43.49 81.54 37.22 75.27	0.45 0.00 0.45 75.72	75.72
43815GAC3	HAROT 2021-4 A3 0.88 01/21/2026	11/16/2021 11/24/2021 10,262.58	13,333.54 0.00 (3,071.59) 10,262.14	3.26 9.78 2.51 9.03	0.18 0.00 0.18 9.21	9.21
43815JAC7	HAROT 2023-1 A3 5.04 04/21/2027	02/16/2023 02/24/2023 61,611.84	66,517.54 0.00 (4,912.52) 61,605.76	93.13 279.40 86.26 272.52	0.74 0.00 0.74 273.26	273.26
43815PAC3	HAROT 2022-2 A3 3.73 07/20/2026	08/15/2022 08/24/2022 48,478.81	54,506.44 0.00 (6,028.70) 48,477.91	73.42 169.43 65.30 161.31	0.17 0.00 0.17 161.48	161.48
438516CJ3	HONEYWELL INTERNATIONAL INC 4.95 02/15/2028	02/13/2023 02/15/2023 400,000.00	405,543.14 0.00 0.00 405,388.20	7,480.00 0.00 9,130.00 1,650.00	0.00 (154.95) (154.95) 1,495.05	1,495.05
448976AD2	HART 2024-C A3 4.41 05/15/2029	10/08/2024 10/16/2024 140,000.00	139,990.22 0.00 0.00 139,990.41	274.40 514.50 274.40 514.50	0.19 0.00 0.19 514.69	514.69
448979AD6	HART 2023-A A3 4.58 04/15/2027	04/04/2023 04/12/2023 134,307.21	145,481.81 0.00 (11,182.68) 134,300.02	296.15 555.29 273.39 532.53	0.90 0.00 0.90 533.43	533.43
44934QAD3	HART 2024-B A3 4.84 03/15/2029	07/16/2024 07/24/2024 90,000.00	89,987.71 0.00 0.00 89,987.96	193.60 363.00 193.60 363.00	0.25 0.00 0.25 363.25	363.25
459058KT9	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 3.5 07/12/2028	11/28/2023 11/30/2023 250,000.00	241,881.25 0.00 0.00 242,076.65	4,107.64 4,375.00 461.81 729.17	195.40 0.00 195.40 924.57	924.57

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459058KW2	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 4.625 08/01/2028	250,000.00	247,312.58 0.00 0.00 247,376.27	4,817.71 0.00 5,781.25 963.54	63.69 0.00 63.69 1,027.23	1,027.23
459058LK7	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 4.0 08/27/2026	08/20/2024 08/27/2024 170,000.00	169,837.11 0.00 0.00 169,845.48	2,342.22 0.00 2,908.89 566.67	8.37 0.00 8.37 575.04	575.04
459058LN1	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 3.875 10/16/2029	10/08/2024 10/16/2024 300,000.00	299,250.02 0.00 0.00 299,263.31	2,421.88 0.00 3,390.63 968.75	13.29 0.00 13.29 982.04	982.04
46625HMN7	JPMORGAN CHASE & CO 3.9 07/15/2025	05/29/2024 05/30/2024 400,000.00	396,559.27 0.00 0.00 397,106.26	7,193.33 7,800.00 693.33 1,300.00	546.99 0.00 546.99 1,846.99	1,846.99
47787CAC7	JDOT 2023-C A3 5.48 05/15/2028	09/12/2023 09/19/2023 310,000.00	309,984.59 0.00 0.00 309,984.98	755.02 1,415.67 755.02 1,415.67	0.39 0.00 0.39 1,416.06	1,416.06
47787JAC2	JDOT 2022 A3 0.36 09/15/2026	03/10/2022 03/16/2022 33,204.09	38,056.15 0.00 (4,855.00) 33,201.65	39.24 73.58 34.24 68.57	0.50 0.00 0.50 69.08	69.08
47789QAC4	JDOT 2021-B A3 0.52 03/16/2026	07/13/2021 07/21/2021 6,607.56	8,871.11 0.00 (2,263.67) 6,607.48	2.05 3.84 1.53 3.32	0.04 0.00 0.04 3.35	3.35
47800AAC4	JDOT 2022-B A3 3.74 02/16/2027	07/12/2022 07/20/2022 75,694.48	82,408.58 0.00 (6,717.13) 75,691.81	136.99 256.85 125.82 245.68	0.36 0.00 0.36 246.04	246.04
47800BAC2	JDOT 2022-C A3 5.09 06/15/2027	10/12/2022 10/19/2022 157,450.93	167,680.99 0.00 (10,236.23) 157,445.34	379.35 711.27 356.19 688.11	0.58 0.00 0.58 688.69	688.69

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57636QAW4	MASTERCARD INC 4.875 03/09/2028	04/19/2023 04/21/2023 290,000.00	295,707.74 0.00 0.00 295,551.70	4,398.33 0.00 5,576.46 1,178.13	0.00 (156.03) (156.03) 1,022.09	1,022.09
58769GAD5	MBALT 2024-B A3 4.23 02/15/2028	09/17/2024 09/25/2024 130,000.00	129,979.85 0.00 0.00 129,980.40	244.40 458.25 244.40 458.25	0.55 0.00 0.55 458.80	458.80
58770AAC7	MBART 2023-1 A3 4.51 11/15/2027	01/18/2023 01/25/2023 79,316.68	85,558.66 0.00 (6,247.95) 79,311.32	171.51 321.58 158.99 309.06	0.60 0.00 0.60 309.66	309.66
58933YBH7	MERCK & CO INC 4.05 05/17/2028	05/08/2023 05/17/2023 90,000.00	89,950.84 0.00 0.00 89,952.08	445.50 0.00 749.25 303.75	1.24 0.00 1.24 304.99	304.99
6174468C6	MORGAN STANLEY 4.0 07/23/2025	04/10/2024 04/12/2024 394,000.00	390,730.51 0.00 0.00 391,229.79	6,916.89 7,880.00 350.22 1,313.33	499.28 0.00 499.28 1,812.62	1,812.62
61747YET8	MORGAN STANLEY 4.679 07/17/2026	07/18/2022 07/20/2022 175,000.00	175,000.00 0.00 0.00 175,000.00	3,730.20 4,094.13 318.43 682.36	0.00 0.00 0.00 682.36	682.36
63743HFE7	NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP 3.45 06/15/2025	04/27/2022 05/04/2022 95,000.00	94,996.28 0.00 0.00 94,996.98	145.67 0.00 418.79 273.13	0.70 0.00 0.70 273.82	273.82
63743HFK3	NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP 5.6 11/13/2026	11/14/2023 11/16/2023 390,000.00	392,243.79 0.00 0.00 392,136.77	2,912.00 0.00 4,732.00 1,820.00	0.00 (107.01) (107.01) 1,712.99	1,712.99
665859AW4	NORTHERN TRUST CORP 4.0 05/10/2027	10/05/2022 10/07/2022 450,000.00	443,290.73 0.00 0.00 443,532.85	2,550.00 0.00 4,050.00 1,500.00	242.13 0.00 242.13 1,742.13	1,742.13

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69371RS80	PACCAR FINANCIAL CORP 4.6 01/31/2029	01/24/2024 01/31/2024 410,000.00	409,454.61 0.00 0.00 409,465.95	7,910.72 9,430.00 52.39 1,571.67	11.34 0.00 11.34 1,583.01	1,583.01
713448FX1	PEPSICO INC 4.5 07/17/2029	07/15/2024 07/17/2024 295,000.00	294,584.82 0.00 0.00 294,592.58	6,047.50 6,637.50 516.25 1,106.25	7.76 0.00 7.76 1,114.01	1,114.01
74456QBU9	PUBLIC SERVICE ELECTRIC AND GAS CO 3.7 05/01/2028	09/06/2023 09/08/2023 300,000.00	287,675.91 0.00 0.00 287,990.09	1,850.00 0.00 2,775.00 925.00	314.18 0.00 314.18 1,239.18	1,239.18
78016HZT0	ROYAL BANK OF CANADA 4.875 01/19/2027	01/10/2024 01/19/2024 150,000.00	149,974.41 0.00 0.00 149,975.47	3,290.63 3,656.25 243.75 609.38	1.06 0.00 1.06 610.44	610.44
857477BR3	STATE STREET CORP 1.746 02/06/2026	02/02/2022 02/07/2022 90,000.00	90,000.00 0.00 0.00 90,000.00	632.93 0.00 763.88 130.95	0.00 0.00 0.00 130.95	130.95
857477CL5	STATE STREET CORP 4.993 03/18/2027	03/13/2024 03/18/2024 365,000.00	365,000.00 0.00 0.00 365,000.00	5,214.22 0.00 6,732.92 1,518.70	0.00 0.00 0.00 1,518.70	1,518.70
89115A2V3	TORONTO-DOMINION BANK 5.264 12/11/2026	12/04/2023 12/11/2023 160,000.00	160,000.00 0.00 0.00 160,000.00	467.91 0.00 1,169.78 701.87	0.00 0.00 0.00 701.87	701.87
89115A2W1	TORONTO-DOMINION BANK 4.98 04/05/2027	04/08/2024 04/10/2024 400,000.00	398,070.78 0.00 0.00 398,143.36	4,758.67 0.00 6,418.67 1,660.00	72.58 0.00 72.58 1,732.58	1,732.58
89236TMF9	TOYOTA MOTOR CREDIT CORP 5.05 05/16/2029	06/25/2024 06/26/2024 400,000.00	402,567.91 0.00 0.00 402,518.03	2,525.00 0.00 4,208.33 1,683.33	0.00 (49.88) (49.88) 1,633.46	1,633.46

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89238FAD5	TAOT 2022-B A3 2.93 09/15/2026	04/07/2022 04/13/2022 41,293.53	46,513.21 0.00 (5,219.99) 41,293.27	60.57 113.57 53.77 106.77	0.05 0.00 0.05 106.82	106.82
89238JAC9	TAOT 2021-D A3 0.71 04/15/2026	11/09/2021 11/15/2021 8,491.94	10,967.39 0.00 (2,475.48) 8,491.91	3.46 6.49 2.68 5.71	0.01 0.00 0.01 5.72	5.72
89239TAD4	TAOT 2024-D A3 4.4 06/15/2029	10/10/2024 10/17/2024 105,000.00	104,994.40 0.00 0.00 104,994.51	205.33 385.00 205.33 385.00	0.11 0.00 0.11 385.11	385.11
9128283F5	UNITED STATES TREASURY 2.25 11/15/2027	12/20/2022 12/21/2022 800,000.00	766,993.86 0.00 0.00 767,970.18	2,337.02 0.00 3,878.45 1,541.44	976.33 0.00 976.33 2,517.76	2,517.76
9128284Z0	UNITED STATES TREASURY 2.75 08/31/2025	750,000.00	758,601.95 0.00 0.00 757,500.05	7,007.94 0.00 8,774.17 1,766.23	0.00 (1,101.90) (1,101.90) 664.33	664.33
9128286L9	UNITED STATES TREASURY 2.25 03/31/2026	02/25/2022 02/28/2022 750,000.00	753,066.67 0.00 0.00 752,857.27	4,311.47 0.00 5,748.63 1,437.16	0.00 (209.40) (209.40) 1,227.76	1,227.76
912828R36	UNITED STATES TREASURY 1.625 05/15/2026	10/14/2021 10/15/2021 250,000.00	252,132.14 0.00 0.00 251,999.68	527.45 0.00 875.35 347.89	0.00 (132.46) (132.46) 215.44	215.44
912828U24	UNITED STATES TREASURY 2.0 11/15/2026	03/29/2022 03/30/2022 625,000.00	618,905.96 0.00 0.00 619,182.55	1,622.93 0.00 2,693.37 1,070.44	276.60 0.00 276.60 1,347.04	1,347.04
912828X88	UNITED STATES TREASURY 2.375 05/15/2027	06/09/2022 06/10/2022 350,000.00	344,559.69 0.00 0.00 344,754.89	1,079.25 0.00 1,791.09 711.84	195.20 0.00 195.20 907.04	907.04

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912828YB0	UNITED STATES TREASURY 1.625 08/15/2029	09/24/2024 09/25/2024 150,000.00	138,226.89 0.00 0.00 138,443.23	920.69 0.00 1,126.02 205.33	216.34 0.00 216.34 421.67	421.67
912828YG9	UNITED STATES TREASURY 1.625 09/30/2026	12/28/2021 12/29/2021 300,000.00	301,943.61 0.00 0.00 301,849.03	1,245.54 0.00 1,660.71 415.18	0.00 (94.59) (94.59) 320.59	320.59
912828Z52	UNITED STATES TREASURY 1.375 01/31/2025	02/17/2022 02/18/2022 0.00	749,800.25 0.00 (750,000.00) 0.00	4,315.56 5,156.25 0.00 840.69	199.75 0.00 199.75 1,040.44	1,040.44
912828ZF0	UNITED STATES TREASURY 0.5 03/31/2025	03/25/2021 03/29/2021 350,000.00	349,933.46 0.00 0.00 349,956.64	447.12 0.00 596.15 149.04	23.18 0.00 23.18 172.21	172.21
912828ZT0	UNITED STATES TREASURY 0.25 05/31/2025	02/25/2021 02/26/2021 365,000.00	364,484.24 0.00 0.00 364,590.83	80.22 0.00 157.93 77.71	106.59 0.00 106.59 184.30	184.30
91282CAZ4	UNITED STATES TREASURY 0.375 11/30/2025	750,000.00	746,621.92 0.00 0.00 746,936.39	247.25 0.00 486.78 239.53	314.48 0.00 314.48 554.00	554.00
91282CEF4	UNITED STATES TREASURY 2.5 03/31/2027	750,000.00	743,690.90 0.00 0.00 743,929.70	4,790.52 0.00 6,387.36 1,596.84	238.81 0.00 238.81 1,835.65	1,835.65
91282CEH0	UNITED STATES TREASURY 2.625 04/15/2025	04/18/2024 04/19/2024 450,000.00	446,840.03 0.00 0.00 447,781.94	2,531.25 0.00 3,537.26 1,006.01	941.91 0.00 941.91 1,947.92	1,947.92
91282CEU1	UNITED STATES TREASURY 2.875 06/15/2025	07/30/2024 07/31/2024 500,000.00	495,565.06 0.00 0.00 496,398.29	671.36 0.00 1,895.60 1,224.24	833.23 0.00 833.23 2,057.48	2,057.48

INCOME EARNED

City of Gardena Cons | Account #10647 | As of January 31, 2025

Cusip	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
91282CEY3	UNITED STATES TREASURY 3.0 07/15/2025	03/15/2024 03/18/2024 475,000.00	470,275.46 0.00 0.00 471,026.54	6,582.88 7,125.00 669.20 1,211.32	751.08 0.00 751.08 1,962.40	1,962.40
91282CFK2	UNITED STATES TREASURY 3.5 09/15/2025	03/15/2024 03/18/2024 475,000.00	470,545.86 0.00 0.00 471,083.13	4,959.94 0.00 6,383.63 1,423.69	537.27 0.00 537.27 1,960.96	1,960.96
91282CFM8	UNITED STATES TREASURY 4.125 09/30/2027	10/26/2022 10/27/2022 570,000.00	569,119.50 0.00 0.00 569,146.74	6,007.31 0.00 8,009.75 2,002.44	27.24 0.00 27.24 2,029.68	2,029.68
91282CFP1	UNITED STATES TREASURY 4.25 10/15/2025	06/23/2023 06/26/2023 550,000.00	548,630.59 0.00 0.00 548,778.50	5,008.93 0.00 6,999.66 1,990.73	147.92 0.00 147.92 2,138.64	2,138.64
91282CGA3	UNITED STATES TREASURY 4.0 12/15/2025	11/18/2024 11/19/2024 600,000.00	597,893.14 0.00 0.00 598,080.82	1,120.88 0.00 3,164.84 2,043.96	187.68 0.00 187.68 2,231.64	2,231.64
91282CGC9	UNITED STATES TREASURY 3.875 12/31/2027	05/25/2023 05/26/2023 500,000.00	498,626.40 0.00 0.00 498,665.32	53.52 0.00 1,712.71 1,659.19	38.92 0.00 38.92 1,698.11	1,698.11
91282CGT2	UNITED STATES TREASURY 3.625 03/31/2028	01/10/2025 01/13/2025 600,000.00	0.00 585,117.19 0.00 585,358.26	0.00 (6,274.04) 7,409.34 1,135.30	241.07 0.00 241.07 1,376.37	1,376.37
91282CHH7	UNITED STATES TREASURY 4.125 06/15/2026	08/26/2024 08/27/2024 475,000.00	476,212.41 0.00 0.00 476,141.49	915.09 0.00 2,583.79 1,668.70	0.00 (70.91) (70.91) 1,597.78	1,597.78
91282CJC6	UNITED STATES TREASURY 4.625 10/15/2026	08/26/2024 08/27/2024 475,000.00	481,289.54 0.00 0.00 480,990.50	4,707.59 0.00 6,578.55 1,870.97	0.00 (299.04) (299.04) 1,571.92	1,571.92

INCOME EARNED

City of Gardena Cons | Account #10647 | As of January 31, 2025

Cusip	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
91282CJP7	UNITED STATES TREASURY 4.375 12/15/2026	12/27/2023 12/28/2023 300,000.00	301,913.35 0.00 0.00 301,830.16	612.98 0.00 1,730.77 1,117.79	0.00 (83.19) (83.19) 1,034.60	1,034.60
91282CKZ3	UNITED STATES TREASURY 4.375 07/15/2027	11/18/2024 11/19/2024 1,000,000.00	1,001,978.34 0.00 0.00 1,001,912.04	20,210.60 21,875.00 2,054.56 3,718.96	0.00 (66.30) (66.30) 3,652.66	3,652.66
91282CMA6	UNITED STATES TREASURY 4.125 11/30/2029	12/17/2024 12/18/2024 200,000.00	198,937.98 0.00 0.00 198,956.33	725.27 0.00 1,427.88 702.61	18.35 0.00 18.35 720.96	720.96
931142ER0	WALMART INC 1.05 09/17/2026	09/08/2021 09/17/2021 40,000.00	39,974.16 0.00 0.00 39,975.45	121.33 0.00 156.33 35.00	1.28 0.00 1.28 36.28	36.28
931142EW9	WALMART INC 3.9 09/09/2025	09/06/2022 09/09/2022 80,000.00	79,987.18 0.00 0.00 79,988.76	970.67 0.00 1,230.67 260.00	1.58 0.00 1.58 261.58	261.58
Total Fixed Income		**32,668,577.78**	**33,183,175.57** **865,033.19** **(1,609,375.81)** **32,449,092.39**	**231,480.33** **96,590.19** **233,757.37** **98,867.23**	**13,593.83** **(3,334.39)** **10,259.44** **109,126.67**	**109,126.67**
LAIF						
90LAIF$00	Local Agency Investment Fund State Pool	5,700,588.90	5,635,051.71 65,537.19 0.00 5,700,588.90	0.00 65,537.19 0.00 65,537.19	0.00 0.00 0.00 65,537.19	65,537.19
Total LAIF		**5,700,588.90**	**5,635,051.71** **65,537.19** **0.00** **5,700,588.90**	**0.00** **65,537.19** **0.00** **65,537.19**	**0.00** **0.00** **0.00** **65,537.19**	**65,537.19**
LOCAL GOV INVESTMENT POOL						

INCOME EARNED

City of Gardena Cons | Account #10647 | As of January 31, 2025

Cusip	Security Description	Trade Date Settle Date Units	Book Value: Begin Book Value: Acq Book Value: Disp Book Value: End	Prior Accrued Inc. Received Ending Accrued Total Interest	Accr. Of Discount Amort. Of Premium Net Accret/Amort Income Earned	Total Income
09CATR$05	CalTrust MTF	716,721.58	7,166,993.63 24,506.08 0.00 7,191,499.71	0.00 24,506.12 0.00 24,506.12	0.00 0.00 0.00 24,506.12	24,506.12
90CAMP$00	CAMP	56,115,807.50	35,969,277.58 20,146,529.92 0.00 56,115,807.50	0.00 146,529.92 0.00 146,529.92	0.00 0.00 0.00 146,529.92	146,529.92
90CAMP$06	CAMP	12/31/2023 12/31/2023 1,250,000.00	1,250,000.00 0.00 0.00 1,250,000.00	0.00 5,318.84 0.00 5,318.84	0.00 0.00 0.00 5,318.84	5,318.84
Total Local Gov Investment Pool		**58,082,529.08**	**44,386,271.21** **20,171,036.00** **0.00** **64,557,307.21**	**0.00** **176,354.88** **0.00** **176,354.88**	**0.00** **0.00** **0.00** **176,354.88**	**176,354.88**
TOTAL PORTFOLIO		**97,492,504.65**	**83,441,152.90** **22,814,647.63** **(2,480,683.04)** **103,743,495.55**	**231,480.33** **339,283.47** **233,757.37** **341,560.51**	**13,669.98** **(3,334.39)** **10,335.59** **351,896.10**	**351,896.10**

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
FEBRUARY 2025							
02/03/2025	Dividend	31846V203	0.00	FIRST AMER:GVT OBLG Y	1,096.85		1,096.85
02/03/2025	Coupon	459058KW2	0.00	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 4.625 08/01/2028		5,782.50	5,782.50
02/06/2025	Coupon	857477BR3	0.00	STATE STREET CORP 1.746 02/06/2026		785.70	785.70
02/06/2025	Call Redemption	857477BR3	(90,000.00)	STATE STREET CORP 1.746 02/06/2026	90,000.00		90,000.00
02/14/2025	Coupon	3133ENPG9	415,000.00	FEDERAL FARM CREDIT BANKS FUNDING CORP 1.75 02/14/2025		3,631.25	3,631.25
02/14/2025	Final Maturity	3133ENPG9	415,000.00	FEDERAL FARM CREDIT BANKS FUNDING CORP 1.75 02/14/2025	415,000.00		415,000.00
02/17/2025	Coupon	161571HT4	340,000.00	CHAIT 2023-1 A 5.16 09/15/2028		1,462.00	1,462.00
02/17/2025	Coupon	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028		428.38	428.38
02/17/2025	Principal Paydown	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028	5,489.96		5,489.96
02/17/2025	Coupon	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027		147.99	147.99
02/17/2025	Principal Paydown	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027	4,743.33		4,743.33
02/17/2025	Coupon	38014AAD3	95,000.00	GMCAR 2024-4 A3 4.4 08/16/2029		348.33	348.33
02/17/2025	Coupon	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026		69.78	69.78
02/17/2025	Principal Paydown	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026	6,765.31		6,765.31
02/17/2025	Coupon	448976AD2	140,000.00	HART 2024-C A3 4.41 05/15/2029		514.50	514.50
02/17/2025	Coupon	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027		512.61	512.61
02/17/2025	Principal Paydown	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027	10,128.98		10,128.98
02/17/2025	Coupon	44934QAD3	90,000.00	HART 2024-B A3 4.84 03/15/2029		363.00	363.00
02/17/2025	Coupon	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028		1,415.67	1,415.67
02/17/2025	Coupon	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026		64.19	64.19
02/17/2025	Principal Paydown	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026	4,220.18		4,220.18
02/17/2025	Coupon	47789QAC4	6,607.56	JDOT 2021-B A3 0.52 03/16/2026		2.86	2.86
02/17/2025	Principal Paydown	47789QAC4	6,607.56	JDOT 2021-B A3 0.52 03/16/2026	2,586.30		2,586.30
02/17/2025	Coupon	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027		235.91	235.91
02/17/2025	Principal Paydown	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027	7,009.80		7,009.80
02/17/2025	Coupon	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027		667.85	667.85
02/17/2025	Principal Paydown	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027	11,280.18		11,280.18
02/17/2025	Coupon	58769GAD5	130,000.00	MBALT 2024-B A3 4.23 02/15/2028		458.25	458.25

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
02/17/2025	Coupon	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027		298.10	298.10
02/17/2025	Principal Paydown	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027	4,879.69		4,879.69
02/17/2025	Coupon	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026		100.83	100.83
02/17/2025	Principal Paydown	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026	4,888.04		4,888.04
02/17/2025	Coupon	89238JAC9	8,491.94	TAOT 2021-D A3 0.71 04/15/2026		5.02	5.02
02/17/2025	Principal Paydown	89238JAC9	8,491.94	TAOT 2021-D A3 0.71 04/15/2026	2,381.97		2,381.97
02/17/2025	Coupon	89239TAD4	105,000.00	TAOT 2024-D A3 4.4 06/15/2029		385.00	385.00
02/18/2025	Coupon	02582JJT8	185,000.00	AMXCA 2022-2 A 3.39 05/17/2027		522.63	522.63
02/18/2025	Coupon	02582JJZ4	125,000.00	AMXCA 2023-1 A 4.87 05/15/2026		507.29	507.29
02/18/2025	Coupon	02582JKD1	340,000.00	AMXCA 2023-3 A 5.23 09/15/2028		1,481.83	1,481.83
02/18/2025	Coupon	06428CAA2	300,000.00	BANK OF AMERICA NA 5.526 08/18/2026		8,289.00	8,289.00
02/18/2025	Coupon	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026		152.15	152.15
02/18/2025	Principal Paydown	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026	5,601.58		5,601.58
02/18/2025	Coupon	438516CJ3	400,000.00	HONEYWELL INTERNATIONAL INC 4.95 02/15/2028		9,900.00	9,900.00
02/18/2025	Coupon	912828YB0	150,000.00	UNITED STATES TREASURY 1.625 08/15/2029		1,218.75	1,218.75
02/20/2025	Coupon	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026		336.25	336.25
02/21/2025	Coupon	43815GAC3	10,262.58	HAROT 2021-4 A3 0.88 01/21/2026		7.53	7.53
02/21/2025	Principal Paydown	43815GAC3	10,262.58	HAROT 2021-4 A3 0.88 01/21/2026	2,735.46		2,735.46
02/21/2025	Coupon	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027		261.96	261.96
02/21/2025	Principal Paydown	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027	4,519.92		4,519.92
02/24/2025	Coupon	037833BY5	400,000.00	APPLE INC 3.25 02/23/2026		6,500.00	6,500.00
02/25/2025	Coupon	05593AAC3	5,428.52	BMWLT 2023-1 A3 5.16 11/25/2025		15.39	15.39
02/25/2025	Effective Maturity	05593AAC3	5,428.52	BMWLT 2023-1 A3 5.16 11/25/2025	3,578.72		3,578.72
02/25/2025	Coupon	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026		232.22	232.22
02/25/2025	Principal Paydown	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026	11,597.45		11,597.45
02/25/2025	Coupon	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026		1,081.25	1,081.25
02/25/2025	Principal Paydown	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026	880.61		880.61
02/25/2025	Coupon	3137BVZ82	320,000.00	FHMS K-063 A2 3.43 01/25/2027		914.67	914.67
02/25/2025	Coupon	3137FEBQ2	500,000.00	FHMS K-072 A2 3.444 12/25/2027		1,435.00	1,435.00
02/25/2025	Coupon	3137FETN0	465,000.00	FHMS K-073 A2 3.35 01/25/2028		1,298.13	1,298.13
02/25/2025	Coupon	3137FHPJ6	325,000.00	FHMS K-080 A2 3.926 07/25/2028		1,063.29	1,063.29

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
02/25/2025	Coupon	3137FJEH8	155,000.00	FHMS K-081 A2 3.9 08/25/2028		503.75	503.75
02/25/2025	Coupon	3137FJKE8	220,000.00	FHMS K-082 A2 3.92 09/25/2028		718.67	718.67
02/25/2025	Coupon	3137FJXV6	297,000.00	FHMS K-083 A2 4.05 09/25/2028		1,002.38	1,002.38
02/25/2025	Coupon	3137FJZ93	240,000.00	FHMS K-084 A2 3.78 10/25/2028		756.00	756.00
02/25/2025	Coupon	3137H4BY5	315,000.00	FHMS K-746 A2 2.031 09/25/2028		533.14	533.14
02/26/2025	Coupon	17275RBQ4	170,000.00	CISCO SYSTEMS INC 4.8 02/26/2027		4,080.00	4,080.00
02/27/2025	Coupon	459058LK7	170,000.00	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 4.0 08/27/2026		3,400.00	3,400.00
02/28/2025	Coupon	9128284Z0	750,000.00	UNITED STATES TREASURY 2.75 08/31/2025		10,312.50	10,312.50
February 2025 Total					**599,384.32**	**74,203.49**	**673,587.82**
MARCH 2025							
03/07/2025	Coupon	24422EWB1	130,000.00	JOHN DEERE CAPITAL CORP 2.125 03/07/2025		1,381.25	1,381.25
03/07/2025	Final Maturity	24422EWB1	130,000.00	JOHN DEERE CAPITAL CORP 2.125 03/07/2025	130,000.00		130,000.00
03/10/2025	Coupon	3130ATS57	700,000.00	FEDERAL HOME LOAN BANKS 4.5 03/10/2028		15,750.00	15,750.00
03/10/2025	Coupon	57636QAW4	290,000.00	MASTERCARD INC 4.875 03/09/2028		7,068.75	7,068.75
03/10/2025	Coupon	931142EW9	80,000.00	WALMART INC 3.9 09/09/2025		1,560.00	1,560.00
03/17/2025	Coupon	02582JJT8	185,000.00	AMXCA 2022-2 A 3.39 05/17/2027		522.63	522.63
03/17/2025	Coupon	02582JJZ4	125,000.00	AMXCA 2023-1 A 4.87 05/15/2026		507.29	507.29
03/17/2025	Coupon	02582JKD1	340,000.00	AMXCA 2023-3 A 5.23 09/15/2028		1,481.83	1,481.83
03/17/2025	Coupon	161571HT4	340,000.00	CHAIT 2023-1 A 5.16 09/15/2028		1,462.00	1,462.00
03/17/2025	Coupon	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028		407.92	407.92
03/17/2025	Principal Paydown	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028	6,687.89		6,687.89
03/17/2025	Coupon	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027		133.60	133.60
03/17/2025	Principal Paydown	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027	4,408.76		4,408.76
03/17/2025	Coupon	38014AAD3	95,000.00	GMCAR 2024-4 A3 4.4 08/16/2029		348.33	348.33
03/17/2025	Coupon	437076CR1	110,000.00	HOME DEPOT INC 4.0 09/15/2025		2,200.00	2,200.00
03/17/2025	Coupon	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026		59.18	59.18
03/17/2025	Principal Paydown	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026	6,571.73		6,571.73
03/17/2025	Coupon	448976AD2	140,000.00	HART 2024-C A3 4.41 05/15/2029		514.50	514.50
03/17/2025	Coupon	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027		473.95	473.95
03/17/2025	Principal Paydown	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027	9,812.26		9,812.26

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
03/17/2025	Coupon	44934QAD3	90,000.00	HART 2024-B A3 4.84 03/15/2029		363.00	363.00
03/17/2025	Coupon	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028		1,415.67	1,415.67
03/17/2025	Coupon	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026		56.04	56.04
03/17/2025	Principal Paydown	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026	3,486.93		3,486.93
03/17/2025	Coupon	47789QAC4	6,607.56	JDOT 2021-B A3 0.52 03/16/2026		1.74	1.74
03/17/2025	Principal Paydown	47789QAC4	6,607.56	JDOT 2021-B A3 0.52 03/16/2026	2,226.44		2,226.44
03/17/2025	Coupon	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027		214.07	214.07
03/17/2025	Principal Paydown	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027	6,189.99		6,189.99
03/17/2025	Coupon	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027		620.01	620.01
03/17/2025	Principal Paydown	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027	10,495.81		10,495.81
03/17/2025	Coupon	58769GAD5	130,000.00	MBALT 2024-B A3 4.23 02/15/2028		458.25	458.25
03/17/2025	Coupon	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027		279.76	279.76
03/17/2025	Principal Paydown	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027	4,705.60		4,705.60
03/17/2025	Coupon	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026		88.89	88.89
03/17/2025	Principal Paydown	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026	4,758.31		4,758.31
03/17/2025	Coupon	89238JAC9	8,491.94	TAOT 2021-D A3 0.71 04/15/2026		3.62	3.62
03/17/2025	Principal Paydown	89238JAC9	8,491.94	TAOT 2021-D A3 0.71 04/15/2026	2,312.82		2,312.82
03/17/2025	Coupon	89239TAD4	105,000.00	TAOT 2024-D A3 4.4 06/15/2029		385.00	385.00
03/17/2025	Coupon	91282CFK2	475,000.00	UNITED STATES TREASURY 3.5 09/15/2025		8,312.50	8,312.50
03/17/2025	Coupon	931142ER0	40,000.00	WALMART INC 1.05 09/17/2026		210.00	210.00
03/18/2025	Coupon	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026		134.74	134.74
03/18/2025	Principal Paydown	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026	5,431.47		5,431.47
03/18/2025	Coupon	857477CL5	365,000.00	STATE STREET CORP 4.993 03/18/2027		9,112.23	9,112.23
03/20/2025	Coupon	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026		336.25	336.25
03/20/2025	Principal Paydown	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026	6,535.94		6,535.94
03/21/2025	Coupon	43815GAC3	10,262.58	HAROT 2021-4 A3 0.88 01/21/2026		5.52	5.52
03/21/2025	Principal Paydown	43815GAC3	10,262.58	HAROT 2021-4 A3 0.88 01/21/2026	2,659.53		2,659.53
03/21/2025	Coupon	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027		242.98	242.98
03/21/2025	Principal Paydown	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027	4,368.94		4,368.94
03/25/2025	Coupon	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026		201.20	201.20
03/25/2025	Principal Paydown	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026	11,227.90		11,227.90
03/25/2025	Coupon	096924AD7	220,000.00	BMWOT 2025-A A3 4.56 09/25/2029		1,198.27	1,198.27

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
03/25/2025	Coupon	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026		1,079.24	1,079.24
03/25/2025	Principal Paydown	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026	1,057.97		1,057.97
03/25/2025	Coupon	3137BVZ82	320,000.00	FHMS K-063 A2 3.43 01/25/2027		914.67	914.67
03/25/2025	Coupon	3137FEBQ2	500,000.00	FHMS K-072 A2 3.444 12/25/2027		1,435.00	1,435.00
03/25/2025	Coupon	3137FETN0	465,000.00	FHMS K-073 A2 3.35 01/25/2028		1,298.13	1,298.13
03/25/2025	Coupon	3137FHPJ6	325,000.00	FHMS K-080 A2 3.926 07/25/2028		1,063.29	1,063.29
03/25/2025	Coupon	3137FJEH8	155,000.00	FHMS K-081 A2 3.9 08/25/2028		503.75	503.75
03/25/2025	Coupon	3137FJKE8	220,000.00	FHMS K-082 A2 3.92 09/25/2028		718.67	718.67
03/25/2025	Coupon	3137FJXV6	297,000.00	FHMS K-083 A2 4.05 09/25/2028		1,002.38	1,002.38
03/25/2025	Coupon	3137FJZ93	240,000.00	FHMS K-084 A2 3.78 10/25/2028		756.00	756.00
03/25/2025	Coupon	3137H4BY5	315,000.00	FHMS K-746 A2 2.031 09/25/2028		533.14	533.14
03/25/2025	Final Maturity	912797NS2	325,000.00	UNITED STATES TREASURY 03/25/2025	325,000.00		325,000.00
03/31/2025	Coupon	9128286L9	750,000.00	UNITED STATES TREASURY 2.25 03/31/2026		8,437.50	8,437.50
03/31/2025	Coupon	912828YG9	300,000.00	UNITED STATES TREASURY 1.625 09/30/2026		2,437.50	2,437.50
03/31/2025	Coupon	912828ZF0	350,000.00	UNITED STATES TREASURY 0.5 03/31/2025		875.00	875.00
03/31/2025	Final Maturity	912828ZF0	350,000.00	UNITED STATES TREASURY 0.5 03/31/2025	350,000.00		350,000.00
03/31/2025	Coupon	91282CEF4	750,000.00	UNITED STATES TREASURY 2.5 03/31/2027		9,375.00	9,375.00
03/31/2025	Coupon	91282CFM8	570,000.00	UNITED STATES TREASURY 4.125 09/30/2027		11,756.25	11,756.25
03/31/2025	Coupon	91282CGT2	600,000.00	UNITED STATES TREASURY 3.625 03/31/2028		10,875.00	10,875.00
March 2025 Total					**897,938.29**	**110,571.45**	**1,008,509.74**
APRIL 2025							
04/03/2025	Final Maturity	912797MV6	325,000.00	UNITED STATES TREASURY 04/03/2025	325,000.00		325,000.00
04/07/2025	Coupon	89115A2W1	400,000.00	TORONTO-DOMINION BANK 4.98 04/05/2027		9,960.00	9,960.00
04/09/2025	Coupon	3130B3A29	600,000.00	FEDERAL HOME LOAN BANKS 4.0 10/09/2026		11,866.67	11,866.67
04/15/2025	Coupon	02582JJT8	185,000.00	AMXCA 2022-2 A 3.39 05/17/2027		522.63	522.63
04/15/2025	Coupon	02582JJZ4	125,000.00	AMXCA 2023-1 A 4.87 05/15/2026		507.29	507.29
04/15/2025	Coupon	02582JKD1	340,000.00	AMXCA 2023-3 A 5.23 09/15/2028		1,481.83	1,481.83
04/15/2025	Coupon	161571HT4	340,000.00	CHAIT 2023-1 A 5.16 09/15/2028		1,462.00	1,462.00
04/15/2025	Coupon	20030NCS8	400,000.00	COMCAST CORP 3.95 10/15/2025		7,900.00	7,900.00
04/15/2025	Coupon	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026		48.88	48.88
04/15/2025	Principal Paydown	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026	6,652.23		6,652.23
04/15/2025	Coupon	448976AD2	140,000.00	HART 2024-C A3 4.41 05/15/2029		514.50	514.50

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
04/15/2025	Coupon	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027		436.50	436.50
04/15/2025	Principal Paydown	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027	10,203.60		10,203.60
04/15/2025	Coupon	44934QAD3	90,000.00	HART 2024-B A3 4.84 03/15/2029		363.00	363.00
04/15/2025	Coupon	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028		1,415.67	1,415.67
04/15/2025	Coupon	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026		49.29	49.29
04/15/2025	Principal Paydown	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026	4,462.10		4,462.10
04/15/2025	Coupon	47789QAC4	6,607.56	JDOT 2021-B A3 0.52 03/16/2026		0.78	0.78
04/15/2025	Effective Maturity	47789QAC4	6,607.56	JDOT 2021-B A3 0.52 03/16/2026	1,794.82		1,794.82
04/15/2025	Coupon	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027		194.78	194.78
04/15/2025	Principal Paydown	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027	8,348.25		8,348.25
04/15/2025	Coupon	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027		575.49	575.49
04/15/2025	Principal Paydown	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027	12,488.51		12,488.51
04/15/2025	Coupon	58769GAD5	130,000.00	MBALT 2024-B A3 4.23 02/15/2028		458.25	458.25
04/15/2025	Coupon	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027		262.07	262.07
04/15/2025	Principal Paydown	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027	4,911.50		4,911.50
04/15/2025	Coupon	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026		77.27	77.27
04/15/2025	Principal Paydown	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026	4,871.89		4,871.89
04/15/2025	Coupon	89238JAC9	8,491.94	TAOT 2021-D A3 0.71 04/15/2026		2.25	2.25
04/15/2025	Principal Paydown	89238JAC9	8,491.94	TAOT 2021-D A3 0.71 04/15/2026	2,326.63		2,326.63
04/15/2025	Coupon	89239TAD4	105,000.00	TAOT 2024-D A3 4.4 06/15/2029		385.00	385.00
04/15/2025	Dividend	90LAIF$00	5,700,588.90	Local Agency Investment Fund State Pool	21,440.99		21,440.99
04/15/2025	Coupon	91282CEH0	450,000.00	UNITED STATES TREASURY 2.625 04/15/2025		5,906.25	5,906.25
04/15/2025	Final Maturity	91282CEH0	450,000.00	UNITED STATES TREASURY 2.625 04/15/2025	450,000.00		450,000.00
04/15/2025	Coupon	91282CFP1	550,000.00	UNITED STATES TREASURY 4.25 10/15/2025		11,687.50	11,687.50
04/15/2025	Coupon	91282CJC6	475,000.00	UNITED STATES TREASURY 4.625 10/15/2026		10,984.38	10,984.38
04/16/2025	Coupon	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028		383.01	383.01
04/16/2025	Principal Paydown	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028	7,041.27		7,041.27
04/16/2025	Coupon	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027		120.23	120.23
04/16/2025	Principal Paydown	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027	4,570.82		4,570.82
04/16/2025	Coupon	38014AAD3	95,000.00	GMCAR 2024-4 A3 4.4 08/16/2029		348.33	348.33
04/16/2025	Coupon	459058LN1	300,000.00	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 3.875 10/16/2029		5,812.50	5,812.50

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
04/18/2025	Coupon	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026		117.85	117.85
04/18/2025	Principal Paydown	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026	5,524.41		5,524.41
04/21/2025	Coupon	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026		306.95	306.95
04/21/2025	Principal Paydown	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026	7,888.75		7,888.75
04/21/2025	Coupon	43815GAC3	10,262.58	HAROT 2021-4 A3 0.88 01/21/2026		3.57	3.57
04/21/2025	Principal Paydown	43815GAC3	10,262.58	HAROT 2021-4 A3 0.88 01/21/2026	2,673.88		2,673.88
04/21/2025	Coupon	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027		224.63	224.63
04/21/2025	Principal Paydown	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027	4,494.14		4,494.14
04/25/2025	Coupon	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026		171.16	171.16
04/25/2025	Principal Paydown	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026	11,470.95		11,470.95
04/25/2025	Coupon	096924AD7	220,000.00	BMWOT 2025-A A3 4.56 09/25/2029		836.00	836.00
04/25/2025	Coupon	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026		1,076.82	1,076.82
04/25/2025	Principal Paydown	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026	884.10		884.10
04/25/2025	Coupon	3137BVZ82	320,000.00	FHMS K-063 A2 3.43 01/25/2027		914.67	914.67
04/25/2025	Coupon	3137FEBQ2	500,000.00	FHMS K-072 A2 3.444 12/25/2027		1,435.00	1,435.00
04/25/2025	Coupon	3137FETN0	465,000.00	FHMS K-073 A2 3.35 01/25/2028		1,298.13	1,298.13
04/25/2025	Coupon	3137FHPJ6	325,000.00	FHMS K-080 A2 3.926 07/25/2028		1,063.29	1,063.29
04/25/2025	Coupon	3137FJEH8	155,000.00	FHMS K-081 A2 3.9 08/25/2028		503.75	503.75
04/25/2025	Coupon	3137FJKE8	220,000.00	FHMS K-082 A2 3.92 09/25/2028		718.67	718.67
04/25/2025	Coupon	3137FJXV6	297,000.00	FHMS K-083 A2 4.05 09/25/2028		1,002.38	1,002.38
04/25/2025	Coupon	3137FJZ93	240,000.00	FHMS K-084 A2 3.78 10/25/2028		756.00	756.00
04/25/2025	Coupon	3137H4BY5	315,000.00	FHMS K-746 A2 2.031 09/25/2028		533.14	533.14
April 2025 Total					**897,048.81**	**84,688.33**	**981,737.15**
MAY 2025							
05/01/2025	Coupon	74456QBU9	300,000.00	PUBLIC SERVICE ELECTRIC AND GAS CO 3.7 05/01/2028		5,550.00	5,550.00
05/07/2025	Coupon	3135G06G3	350,000.00	FEDERAL NATIONAL MORTGAGE ASSOCIATION 0.5 11/07/2025		875.00	875.00
05/12/2025	Coupon	665859AW4	450,000.00	NORTHERN TRUST CORP 4.0 05/10/2027		9,000.00	9,000.00
05/13/2025	Coupon	63743HFK3	390,000.00	NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP 5.6 11/13/2026		10,920.00	10,920.00

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
05/14/2025	Coupon	14913UAL4	405,000.00	CATERPILLAR FINANCIAL SERVICES CORP 5.0 05/14/2027		10,125.00	10,125.00
05/15/2025	Coupon	02582JJT8	185,000.00	AMXCA 2022-2 A 3.39 05/17/2027		522.63	522.63
05/15/2025	Final Maturity	02582JJT8	185,000.00	AMXCA 2022-2 A 3.39 05/17/2027	185,000.00		185,000.00
05/15/2025	Coupon	02582JJZ4	125,000.00	AMXCA 2023-1 A 4.87 05/15/2026		507.29	507.29
05/15/2025	Coupon	02582JKD1	340,000.00	AMXCA 2023-3 A 5.23 09/15/2028		1,481.83	1,481.83
05/15/2025	Coupon	161571HT4	340,000.00	CHAIT 2023-1 A 5.16 09/15/2028		1,462.00	1,462.00
05/15/2025	Coupon	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026		38.46	38.46
05/15/2025	Principal Paydown	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026	6,409.60		6,409.60
05/15/2025	Coupon	448976AD2	140,000.00	HART 2024-C A3 4.41 05/15/2029		514.50	514.50
05/15/2025	Coupon	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027		397.55	397.55
05/15/2025	Principal Paydown	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027	9,777.90		9,777.90
05/15/2025	Coupon	44934QAD3	90,000.00	HART 2024-B A3 4.84 03/15/2029		363.00	363.00
05/15/2025	Coupon	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028		1,415.67	1,415.67
05/15/2025	Coupon	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026		40.67	40.67
05/15/2025	Principal Paydown	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026	4,118.41		4,118.41
05/15/2025	Coupon	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027		168.76	168.76
05/15/2025	Principal Paydown	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027	7,324.25		7,324.25
05/15/2025	Coupon	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027		522.52	522.52
05/15/2025	Principal Paydown	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027	10,889.25		10,889.25
05/15/2025	Coupon	58769GAD5	130,000.00	MBALT 2024-B A3 4.23 02/15/2028		458.25	458.25
05/15/2025	Coupon	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027		243.61	243.61
05/15/2025	Principal Paydown	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027	4,706.55		4,706.55
05/15/2025	Coupon	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026		65.38	65.38
05/15/2025	Principal Paydown	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026	4,707.73		4,707.73
05/15/2025	Coupon	89238JAC9	8,491.94	TAOT 2021-D A3 0.71 04/15/2026		0.87	0.87
05/15/2025	Effective Maturity	89238JAC9	8,491.94	TAOT 2021-D A3 0.71 04/15/2026	1,470.52		1,470.52
05/15/2025	Coupon	89239TAD4	105,000.00	TAOT 2024-D A3 4.4 06/15/2029		385.00	385.00
05/15/2025	Coupon	9128283F5	800,000.00	UNITED STATES TREASURY 2.25 11/15/2027		9,000.00	9,000.00
05/15/2025	Coupon	912828R36	250,000.00	UNITED STATES TREASURY 1.625 05/15/2026		2,031.25	2,031.25
05/15/2025	Coupon	912828U24	625,000.00	UNITED STATES TREASURY 2.0 11/15/2026		6,250.00	6,250.00
05/15/2025	Coupon	912828X88	350,000.00	UNITED STATES TREASURY 2.375 05/15/2027		4,156.25	4,156.25

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
05/16/2025	Coupon	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028		356.78	356.78
05/16/2025	Principal Paydown	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028	6,644.19		6,644.19
05/16/2025	Coupon	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027		106.36	106.36
05/16/2025	Principal Paydown	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027	4,383.21		4,383.21
05/16/2025	Coupon	38014AAD3	95,000.00	GMCAR 2024-4 A3 4.4 08/16/2029		348.33	348.33
05/16/2025	Coupon	89236TMF9	400,000.00	TOYOTA MOTOR CREDIT CORP 5.05 05/16/2029		10,100.00	10,100.00
05/19/2025	Coupon	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026		100.68	100.68
05/19/2025	Principal Paydown	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026	5,309.15		5,309.15
05/19/2025	Coupon	58933YBH7	90,000.00	MERCK & CO INC 4.05 05/17/2028		1,822.50	1,822.50
05/20/2025	Coupon	3133ERFJ5	330,000.00	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.5 05/20/2027		7,425.00	7,425.00
05/20/2025	Coupon	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026		271.58	271.58
05/20/2025	Principal Paydown	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026	9,886.05		9,886.05
05/21/2025	Coupon	43815GAC3	10,262.58	HAROT 2021-4 A3 0.88 01/21/2026		1.61	1.61
05/21/2025	Effective Maturity	43815GAC3	10,262.58	HAROT 2021-4 A3 0.88 01/21/2026	2,193.71		2,193.71
05/21/2025	Coupon	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027		205.75	205.75
05/21/2025	Principal Paydown	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027	4,308.38		4,308.38
05/26/2025	Coupon	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026		140.48	140.48
05/26/2025	Principal Paydown	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026	11,015.37		11,015.37
05/26/2025	Coupon	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026		1,074.79	1,074.79
05/26/2025	Principal Paydown	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026	943.67		943.67
05/26/2025	Coupon	3137BVZ82	320,000.00	FHMS K-063 A2 3.43 01/25/2027		914.67	914.67
05/26/2025	Coupon	3137FEBQ2	500,000.00	FHMS K-072 A2 3.444 12/25/2027		1,435.00	1,435.00
05/26/2025	Coupon	3137FETN0	465,000.00	FHMS K-073 A2 3.35 01/25/2028		1,298.13	1,298.13
05/26/2025	Coupon	3137FHPJ6	325,000.00	FHMS K-080 A2 3.926 07/25/2028		1,063.29	1,063.29
05/26/2025	Coupon	3137FJEH8	155,000.00	FHMS K-081 A2 3.9 08/25/2028		503.75	503.75
05/26/2025	Coupon	3137FJKE8	220,000.00	FHMS K-082 A2 3.92 09/25/2028		718.67	718.67
05/26/2025	Coupon	3137FJXV6	297,000.00	FHMS K-083 A2 4.05 09/25/2028		1,002.38	1,002.38
05/26/2025	Coupon	3137FJZ93	240,000.00	FHMS K-084 A2 3.78 10/25/2028		756.00	756.00
05/26/2025	Coupon	3137H4BY5	315,000.00	FHMS K-746 A2 2.031 09/25/2028		533.14	533.14
05/27/2025	Coupon	096924AD7	220,000.00	BMWOT 2025-A A3 4.56 09/25/2029		836.00	836.00
May 2025 Total					**279,087.94**	**97,510.37**	**376,598.32**

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
JUNE 2025							
06/02/2025	Coupon	26444HAH4	450,000.00	DUKE ENERGY FLORIDA LLC 2.5 12/01/2029		5,625.00	5,625.00
06/02/2025	Coupon	912828ZT0	365,000.00	UNITED STATES TREASURY 0.25 05/31/2025		456.25	456.25
06/02/2025	Final Maturity	912828ZT0	365,000.00	UNITED STATES TREASURY 0.25 05/31/2025	365,000.00		365,000.00
06/02/2025	Coupon	91282CAZ4	750,000.00	UNITED STATES TREASURY 0.375 11/30/2025		1,406.25	1,406.25
06/02/2025	Coupon	91282CMA6	200,000.00	UNITED STATES TREASURY 4.125 11/30/2029		4,125.00	4,125.00
06/09/2025	Coupon	3133ERGL9	450,000.00	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.5 06/07/2028		10,125.00	10,125.00
06/11/2025	Coupon	89115A2V3	160,000.00	TORONTO-DOMINION BANK 5.264 12/11/2026		4,211.20	4,211.20
06/16/2025	Coupon	02582JJZ4	125,000.00	AMXCA 2023-1 A 4.87 05/15/2026		507.29	507.29
06/16/2025	Coupon	02582JKD1	340,000.00	AMXCA 2023-3 A 5.23 09/15/2028		1,481.83	1,481.83
06/16/2025	Coupon	161571HT4	340,000.00	CHAIT 2023-1 A 5.16 09/15/2028		1,462.00	1,462.00
06/16/2025	Coupon	3133EPN50	650,000.00	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.25 12/15/2028		13,812.50	13,812.50
06/16/2025	Coupon	341081GT8	330,000.00	FLORIDA POWER & LIGHT CO 5.15 06/15/2029		8,497.50	8,497.50
06/16/2025	Coupon	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028		332.03	332.03
06/16/2025	Principal Paydown	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028	6,200.31		6,200.31
06/16/2025	Coupon	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027		93.07	93.07
06/16/2025	Principal Paydown	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027	4,301.43		4,301.43
06/16/2025	Coupon	38014AAD3	95,000.00	GMCAR 2024-4 A3 4.4 08/16/2029		348.33	348.33
06/16/2025	Coupon	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026		28.42	28.42
06/16/2025	Principal Paydown	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026	6,252.49		6,252.49
06/16/2025	Coupon	448976AD2	140,000.00	HART 2024-C A3 4.41 05/15/2029		514.50	514.50
06/16/2025	Coupon	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027		360.23	360.23
06/16/2025	Principal Paydown	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027	9,596.35		9,596.35
06/16/2025	Coupon	44934QAD3	90,000.00	HART 2024-B A3 4.84 03/15/2029		363.00	363.00
06/16/2025	Coupon	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028		1,415.67	1,415.67
06/16/2025	Principal Paydown	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028	13,495.79		13,495.79
06/16/2025	Coupon	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026		32.71	32.71
06/16/2025	Principal Paydown	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026	3,332.64		3,332.64
06/16/2025	Coupon	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027		145.93	145.93
06/16/2025	Principal Paydown	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027	4,637.81		4,637.81

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
06/16/2025	Coupon	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027		476.33	476.33
06/16/2025	Principal Paydown	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027	9,408.62		9,408.62
06/16/2025	Coupon	58769GAD5	130,000.00	MBALT 2024-B A3 4.23 02/15/2028		458.25	458.25
06/16/2025	Coupon	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027		225.93	225.93
06/16/2025	Principal Paydown	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027	4,622.78		4,622.78
06/16/2025	Coupon	63743HFE7	95,000.00	NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP 3.45 06/15/2025		1,638.75	1,638.75
06/16/2025	Final Maturity	63743HFE7	95,000.00	NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP 3.45 06/15/2025	95,000.00		95,000.00
06/16/2025	Coupon	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026		53.88	53.88
06/16/2025	Principal Paydown	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026	4,618.08		4,618.08
06/16/2025	Coupon	89239TAD4	105,000.00	TAOT 2024-D A3 4.4 06/15/2029		385.00	385.00
06/16/2025	Coupon	91282CEU1	500,000.00	UNITED STATES TREASURY 2.875 06/15/2025		7,187.50	7,187.50
06/16/2025	Final Maturity	91282CEU1	500,000.00	UNITED STATES TREASURY 2.875 06/15/2025	500,000.00		500,000.00
06/16/2025	Coupon	91282CGA3	600,000.00	UNITED STATES TREASURY 4.0 12/15/2025		12,000.00	12,000.00
06/16/2025	Coupon	91282CHH7	475,000.00	UNITED STATES TREASURY 4.125 06/15/2026		9,796.88	9,796.88
06/16/2025	Coupon	91282CJP7	300,000.00	UNITED STATES TREASURY 4.375 12/15/2026		6,562.50	6,562.50
06/18/2025	Coupon	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026		84.18	84.18
06/18/2025	Principal Paydown	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026	4,774.98		4,774.98
06/20/2025	Coupon	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026		227.26	227.26
06/20/2025	Principal Paydown	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026	8,974.68		8,974.68
06/23/2025	Coupon	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027		187.66	187.66
06/23/2025	Principal Paydown	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027	4,213.50		4,213.50
06/25/2025	Coupon	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026		111.01	111.01
06/25/2025	Principal Paydown	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026	10,373.42		10,373.42
06/25/2025	Coupon	096924AD7	220,000.00	BMWOT 2025-A A3 4.56 09/25/2029		836.00	836.00
06/25/2025	Coupon	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026		1,072.64	1,072.64
06/25/2025	Principal Paydown	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026	18,734.79		18,734.79
06/25/2025	Coupon	3137BVZ82	320,000.00	FHMS K-063 A2 3.43 01/25/2027		914.67	914.67
06/25/2025	Coupon	3137FEBQ2	500,000.00	FHMS K-072 A2 3.444 12/25/2027		1,435.00	1,435.00
06/25/2025	Coupon	3137FETN0	465,000.00	FHMS K-073 A2 3.35 01/25/2028		1,298.13	1,298.13
06/25/2025	Coupon	3137FHPJ6	325,000.00	FHMS K-080 A2 3.926 07/25/2028		1,063.29	1,063.29

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
06/25/2025	Coupon	3137FJEH8	155,000.00	FHMS K-081 A2 3.9 08/25/2028		503.75	503.75
06/25/2025	Coupon	3137FJKE8	220,000.00	FHMS K-082 A2 3.92 09/25/2028		718.67	718.67
06/25/2025	Coupon	3137FJXV6	297,000.00	FHMS K-083 A2 4.05 09/25/2028		1,002.38	1,002.38
06/25/2025	Coupon	3137FJZ93	240,000.00	FHMS K-084 A2 3.78 10/25/2028		756.00	756.00
06/25/2025	Coupon	3137H4BY5	315,000.00	FHMS K-746 A2 2.031 09/25/2028		533.14	533.14
06/25/2025	Coupon	437076DC3	295,000.00	HOME DEPOT INC 4.75 06/25/2029		7,006.25	7,006.25
06/30/2025	Coupon	91282CGC9	500,000.00	UNITED STATES TREASURY 3.875 12/31/2027		9,687.50	9,687.50
June 2025 Total					**1,073,537.69**	**121,566.23**	**1,195,103.92**
JULY 2025							
07/07/2025	Coupon	24422EXZ7	280,000.00	JOHN DEERE CAPITAL CORP 4.65 01/07/2028		6,437.67	6,437.67
07/14/2025	Coupon	459058KT9	250,000.00	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 3.5 07/12/2028		4,375.00	4,375.00
07/15/2025	Coupon	02582JJZ4	125,000.00	AMXCA 2023-1 A 4.87 05/15/2026		507.29	507.29
07/15/2025	Coupon	02582JKD1	340,000.00	AMXCA 2023-3 A 5.23 09/15/2028		1,481.83	1,481.83
07/15/2025	Coupon	161571HT4	340,000.00	CHAIT 2023-1 A 5.16 09/15/2028		1,462.00	1,462.00
07/15/2025	Coupon	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026		18.63	18.63
07/15/2025	Principal Paydown	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026	6,089.64		6,089.64
07/15/2025	Coupon	448976AD2	140,000.00	HART 2024-C A3 4.41 05/15/2029		514.50	514.50
07/15/2025	Coupon	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027		323.61	323.61
07/15/2025	Principal Paydown	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027	9,398.96		9,398.96
07/15/2025	Coupon	44934QAD3	90,000.00	HART 2024-B A3 4.84 03/15/2029		363.00	363.00
07/15/2025	Coupon	46625HMN7	400,000.00	JPMORGAN CHASE & CO 3.9 07/15/2025		7,800.00	7,800.00
07/15/2025	Final Maturity	46625HMN7	400,000.00	JPMORGAN CHASE & CO 3.9 07/15/2025	400,000.00		400,000.00
07/15/2025	Coupon	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028		1,354.04	1,354.04
07/15/2025	Principal Paydown	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028	21,507.24		21,507.24
07/15/2025	Coupon	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026		26.26	26.26
07/15/2025	Principal Paydown	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026	3,946.54		3,946.54
07/15/2025	Coupon	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027		131.47	131.47
07/15/2025	Principal Paydown	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027	3,928.20		3,928.20
07/15/2025	Coupon	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027		436.42	436.42
07/15/2025	Principal Paydown	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027	10,270.46		10,270.46
07/15/2025	Coupon	58769GAD5	130,000.00	MBALT 2024-B A3 4.23 02/15/2028		458.25	458.25

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
07/15/2025	Coupon	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027		208.55	208.55
07/15/2025	Principal Paydown	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027	4,530.66		4,530.66
07/15/2025	Coupon	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026		42.61	42.61
07/15/2025	Principal Paydown	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026	4,287.71		4,287.71
07/15/2025	Coupon	89239TAD4	105,000.00	TAOT 2024-D A3 4.4 06/15/2029		385.00	385.00
07/15/2025	Coupon	91282CEY3	475,000.00	UNITED STATES TREASURY 3.0 07/15/2025		7,125.00	7,125.00
07/15/2025	Final Maturity	91282CEY3	475,000.00	UNITED STATES TREASURY 3.0 07/15/2025	475,000.00		475,000.00
07/15/2025	Coupon	91282CKZ3	1,000,000.00	UNITED STATES TREASURY 4.375 07/15/2027		21,875.00	21,875.00
07/16/2025	Coupon	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028		308.94	308.94
07/16/2025	Principal Paydown	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028	6,080.35		6,080.35
07/16/2025	Coupon	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027		80.02	80.02
07/16/2025	Principal Paydown	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027	4,207.35		4,207.35
07/16/2025	Coupon	38014AAD3	95,000.00	GMCAR 2024-4 A3 4.4 08/16/2029		348.33	348.33
07/17/2025	Coupon	61747YET8	175,000.00	MORGAN STANLEY 4.679 07/17/2026		4,094.13	4,094.13
07/17/2025	Effective Maturity	61747YET8	175,000.00	MORGAN STANLEY 4.679 07/17/2026	175,000.00		175,000.00
07/17/2025	Coupon	713448FX1	295,000.00	PEPSICO INC 4.5 07/17/2029		6,637.50	6,637.50
07/18/2025	Coupon	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026		69.34	69.34
07/18/2025	Principal Paydown	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026	4,656.33		4,656.33
07/21/2025	Coupon	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026		187.02	187.02
07/21/2025	Principal Paydown	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026	8,583.30		8,583.30
07/21/2025	Coupon	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027		169.96	169.96
07/21/2025	Principal Paydown	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027	4,113.65		4,113.65
07/21/2025	Coupon	78016HZT0	150,000.00	ROYAL BANK OF CANADA 4.875 01/19/2027		3,656.25	3,656.25
07/23/2025	Coupon	6174468C6	394,000.00	MORGAN STANLEY 4.0 07/23/2025		7,880.00	7,880.00
07/23/2025	Final Maturity	6174468C6	394,000.00	MORGAN STANLEY 4.0 07/23/2025	394,000.00		394,000.00
07/25/2025	Coupon	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026		83.26	83.26
07/25/2025	Principal Paydown	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026	9,921.30		9,921.30
07/25/2025	Coupon	096924AD7	220,000.00	BMWOT 2025-A A3 4.56 09/25/2029		836.00	836.00
07/25/2025	Coupon	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026		1,029.78	1,029.78
07/25/2025	Principal Paydown	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026	10,068.45		10,068.45
07/25/2025	Coupon	3137BVZ82	320,000.00	FHMS K-063 A2 3.43 01/25/2027		914.67	914.67
07/25/2025	Coupon	3137FEBQ2	500,000.00	FHMS K-072 A2 3.444 12/25/2027		1,435.00	1,435.00

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
07/25/2025	Coupon	3137FETN0	465,000.00	FHMS K-073 A2 3.35 01/25/2028		1,298.13	1,298.13
07/25/2025	Coupon	3137FHPJ6	325,000.00	FHMS K-080 A2 3.926 07/25/2028		1,063.29	1,063.29
07/25/2025	Coupon	3137FJEH8	155,000.00	FHMS K-081 A2 3.9 08/25/2028		503.75	503.75
07/25/2025	Coupon	3137FJKE8	220,000.00	FHMS K-082 A2 3.92 09/25/2028		718.67	718.67
07/25/2025	Coupon	3137FJXV6	297,000.00	FHMS K-083 A2 4.05 09/25/2028		1,002.38	1,002.38
07/25/2025	Coupon	3137FJZ93	240,000.00	FHMS K-084 A2 3.78 10/25/2028		756.00	756.00
07/25/2025	Coupon	3137H4BY5	315,000.00	FHMS K-746 A2 2.031 09/25/2028		533.14	533.14
07/31/2025	Coupon	69371RS80	410,000.00	PACCAR FINANCIAL CORP 4.6 01/31/2029		9,430.00	9,430.00
July 2025 Total					**1,555,590.15**	**98,361.67**	**1,653,951.81**
AUGUST 2025							
08/01/2025	Coupon	459058KW2	250,000.00	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 4.625 08/01/2028		5,781.25	5,781.25
08/15/2025	Coupon	02582JJZ4	125,000.00	AMXCA 2023-1 A 4.87 05/15/2026		507.29	507.29
08/15/2025	Coupon	02582JKD1	340,000.00	AMXCA 2023-3 A 5.23 09/15/2028		1,481.83	1,481.83
08/15/2025	Coupon	161571HT4	340,000.00	CHAIT 2023-1 A 5.16 09/15/2028		1,462.00	1,462.00
08/15/2025	Coupon	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026		9.09	9.09
08/15/2025	Effective Maturity	43815BAC4	44,539.92	HAROT 2022-1 A3 1.88 05/15/2026	5,798.93		5,798.93
08/15/2025	Coupon	438516CJ3	400,000.00	HONEYWELL INTERNATIONAL INC 4.95 02/15/2028		9,900.00	9,900.00
08/15/2025	Coupon	448976AD2	140,000.00	HART 2024-C A3 4.41 05/15/2029		514.50	514.50
08/15/2025	Coupon	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027		287.74	287.74
08/15/2025	Principal Paydown	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027	9,130.75		9,130.75
08/15/2025	Coupon	44934QAD3	90,000.00	HART 2024-B A3 4.84 03/15/2029		363.00	363.00
08/15/2025	Coupon	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028		1,255.82	1,255.82
08/15/2025	Principal Paydown	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028	16,444.98		16,444.98
08/15/2025	Coupon	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026		18.63	18.63
08/15/2025	Principal Paydown	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026	3,575.76		3,575.76
08/15/2025	Coupon	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027		119.23	119.23
08/15/2025	Principal Paydown	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027	3,686.18		3,686.18
08/15/2025	Coupon	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027		392.86	392.86
08/15/2025	Principal Paydown	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027	9,918.10		9,918.10
08/15/2025	Coupon	58769GAD5	130,000.00	MBALT 2024-B A3 4.23 02/15/2028		458.25	458.25

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
08/15/2025	Coupon	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027		191.52	191.52
08/15/2025	Principal Paydown	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027	4,024.97		4,024.97
08/15/2025	Coupon	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026		32.14	32.14
08/15/2025	Principal Paydown	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026	4,142.72		4,142.72
08/15/2025	Coupon	89239TAD4	105,000.00	TAOT 2024-D A3 4.4 06/15/2029		385.00	385.00
08/15/2025	Coupon	912828YB0	150,000.00	UNITED STATES TREASURY 1.625 08/15/2029		1,218.75	1,218.75
08/18/2025	Coupon	06428CAA2	300,000.00	BANK OF AMERICA NA 5.526 08/18/2026		8,289.00	8,289.00
08/18/2025	Coupon	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028		286.29	286.29
08/18/2025	Principal Paydown	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028	5,901.84		5,901.84
08/18/2025	Coupon	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027		67.26	67.26
08/18/2025	Principal Paydown	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027	4,079.10		4,079.10
08/18/2025	Coupon	38014AAD3	95,000.00	GMCAR 2024-4 A3 4.4 08/16/2029		348.33	348.33
08/18/2025	Coupon	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026		54.86	54.86
08/18/2025	Principal Paydown	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026	4,514.00		4,514.00
08/20/2025	Coupon	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026		148.54	148.54
08/20/2025	Principal Paydown	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026	8,199.48		8,199.48
08/21/2025	Coupon	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027		152.69	152.69
08/21/2025	Principal Paydown	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027	3,988.08		3,988.08
08/25/2025	Coupon	037833BY5	400,000.00	APPLE INC 3.25 02/23/2026		6,500.00	6,500.00
08/25/2025	Coupon	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026		56.72	56.72
08/25/2025	Principal Paydown	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026	9,607.65		9,607.65
08/25/2025	Coupon	096924AD7	220,000.00	BMWOT 2025-A A3 4.56 09/25/2029		836.00	836.00
08/25/2025	Coupon	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026		1,006.75	1,006.75
08/25/2025	Principal Paydown	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026	854.25		854.25
08/25/2025	Coupon	3137BVZ82	320,000.00	FHMS K-063 A2 3.43 01/25/2027		914.67	914.67
08/25/2025	Coupon	3137FEBQ2	500,000.00	FHMS K-072 A2 3.444 12/25/2027		1,435.00	1,435.00
08/25/2025	Coupon	3137FETN0	465,000.00	FHMS K-073 A2 3.35 01/25/2028		1,298.13	1,298.13
08/25/2025	Coupon	3137FHPJ6	325,000.00	FHMS K-080 A2 3.926 07/25/2028		1,063.29	1,063.29
08/25/2025	Coupon	3137FJEH8	155,000.00	FHMS K-081 A2 3.9 08/25/2028		503.75	503.75
08/25/2025	Coupon	3137FJKE8	220,000.00	FHMS K-082 A2 3.92 09/25/2028		718.67	718.67
08/25/2025	Coupon	3137FJXV6	297,000.00	FHMS K-083 A2 4.05 09/25/2028		1,002.38	1,002.38
08/25/2025	Coupon	3137FJZ93	240,000.00	FHMS K-084 A2 3.78 10/25/2028		756.00	756.00

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
08/25/2025	Coupon	3137H4BY5	315,000.00	FHMS K-746 A2 2.031 09/25/2028		533.14	533.14
08/26/2025	Coupon	17275RBQ4	170,000.00	CISCO SYSTEMS INC 4.8 02/26/2027		4,080.00	4,080.00
08/27/2025	Coupon	459058LK7	170,000.00	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 4.0 08/27/2026		3,400.00	3,400.00
August 2025 Total					**93,866.79**	**57,830.35**	**151,697.13**
SEPTEMBER 2025							
09/02/2025	Coupon	9128284Z0	750,000.00	UNITED STATES TREASURY 2.75 08/31/2025		10,312.50	10,312.50
09/02/2025	Final Maturity	9128284Z0	750,000.00	UNITED STATES TREASURY 2.75 08/31/2025	750,000.00		750,000.00
09/09/2025	Coupon	57636QAW4	290,000.00	MASTERCARD INC 4.875 03/09/2028		7,068.75	7,068.75
09/09/2025	Coupon	931142EW9	80,000.00	WALMART INC 3.9 09/09/2025		1,560.00	1,560.00
09/09/2025	Final Maturity	931142EW9	80,000.00	WALMART INC 3.9 09/09/2025	80,000.00		80,000.00
09/10/2025	Coupon	3130ATS57	700,000.00	FEDERAL HOME LOAN BANKS 4.5 03/10/2028		15,750.00	15,750.00
09/15/2025	Coupon	02582JJZ4	125,000.00	AMXCA 2023-1 A 4.87 05/15/2026		507.29	507.29
09/15/2025	Coupon	02582JKD1	340,000.00	AMXCA 2023-3 A 5.23 09/15/2028		1,481.83	1,481.83
09/15/2025	Coupon	161571HT4	340,000.00	CHAIT 2023-1 A 5.16 09/15/2028		1,462.00	1,462.00
09/15/2025	Coupon	437076CR1	110,000.00	HOME DEPOT INC 4.0 09/15/2025		2,200.00	2,200.00
09/15/2025	Final Maturity	437076CR1	110,000.00	HOME DEPOT INC 4.0 09/15/2025	110,000.00		110,000.00
09/15/2025	Coupon	448976AD2	140,000.00	HART 2024-C A3 4.41 05/15/2029		514.50	514.50
09/15/2025	Coupon	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027		252.89	252.89
09/15/2025	Principal Paydown	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027	8,943.54		8,943.54
09/15/2025	Coupon	44934QAD3	90,000.00	HART 2024-B A3 4.84 03/15/2029		363.00	363.00
09/15/2025	Coupon	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028		1,180.72	1,180.72
09/15/2025	Principal Paydown	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028	13,059.33		13,059.33
09/15/2025	Coupon	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026		11.72	11.72
09/15/2025	Principal Paydown	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026	3,482.73		3,482.73
09/15/2025	Coupon	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027		107.74	107.74
09/15/2025	Principal Paydown	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027	3,839.59		3,839.59
09/15/2025	Coupon	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027		350.79	350.79
09/15/2025	Principal Paydown	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027	8,529.81		8,529.81
09/15/2025	Coupon	58769GAD5	130,000.00	MBALT 2024-B A3 4.23 02/15/2028		458.25	458.25
09/15/2025	Coupon	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027		176.40	176.40
09/15/2025	Principal Paydown	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027	3,906.86		3,906.86

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
09/15/2025	Coupon	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026		22.02	22.02
09/15/2025	Principal Paydown	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026	4,061.71		4,061.71
09/15/2025	Coupon	89239TAD4	105,000.00	TAOT 2024-D A3 4.4 06/15/2029		385.00	385.00
09/15/2025	Coupon	91282CFK2	475,000.00	UNITED STATES TREASURY 3.5 09/15/2025		8,312.50	8,312.50
09/15/2025	Final Maturity	91282CFK2	475,000.00	UNITED STATES TREASURY 3.5 09/15/2025	475,000.00		475,000.00
09/16/2025	Coupon	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028		264.30	264.30
09/16/2025	Principal Paydown	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028	5,786.79		5,786.79
09/16/2025	Coupon	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027		54.89	54.89
09/16/2025	Principal Paydown	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027	3,881.68		3,881.68
09/16/2025	Coupon	38014AAD3	95,000.00	GMCAR 2024-4 A3 4.4 08/16/2029		348.33	348.33
09/17/2025	Coupon	931142ER0	40,000.00	WALMART INC 1.05 09/17/2026		210.00	210.00
09/18/2025	Coupon	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026		40.83	40.83
09/18/2025	Principal Paydown	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026	4,400.31		4,400.31
09/18/2025	Coupon	857477CL5	365,000.00	STATE STREET CORP 4.993 03/18/2027		9,112.23	9,112.23
09/22/2025	Coupon	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026		111.78	111.78
09/22/2025	Principal Paydown	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026	9,439.95		9,439.95
09/22/2025	Coupon	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027		135.94	135.94
09/22/2025	Principal Paydown	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027	3,892.62		3,892.62
09/25/2025	Coupon	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026		31.02	31.02
09/25/2025	Principal Paydown	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026	8,079.00		8,079.00
09/25/2025	Coupon	096924AD7	220,000.00	BMWOT 2025-A A3 4.56 09/25/2029		836.00	836.00
09/25/2025	Coupon	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026		1,004.79	1,004.79
09/25/2025	Principal Paydown	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026	855.62		855.62
09/25/2025	Coupon	3137BVZ82	320,000.00	FHMS K-063 A2 3.43 01/25/2027		914.67	914.67
09/25/2025	Coupon	3137FEBQ2	500,000.00	FHMS K-072 A2 3.444 12/25/2027		1,435.00	1,435.00
09/25/2025	Coupon	3137FETN0	465,000.00	FHMS K-073 A2 3.35 01/25/2028		1,298.13	1,298.13
09/25/2025	Coupon	3137FHPJ6	325,000.00	FHMS K-080 A2 3.926 07/25/2028		1,063.29	1,063.29
09/25/2025	Coupon	3137FJEH8	155,000.00	FHMS K-081 A2 3.9 08/25/2028		503.75	503.75
09/25/2025	Coupon	3137FJKE8	220,000.00	FHMS K-082 A2 3.92 09/25/2028		718.67	718.67
09/25/2025	Coupon	3137FJXV6	297,000.00	FHMS K-083 A2 4.05 09/25/2028		1,002.38	1,002.38
09/25/2025	Coupon	3137FJZ93	240,000.00	FHMS K-084 A2 3.78 10/25/2028		756.00	756.00
09/25/2025	Coupon	3137H4BY5	315,000.00	FHMS K-746 A2 2.031 09/25/2028		533.14	533.14

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
09/30/2025	Coupon	9128286L9	750,000.00	UNITED STATES TREASURY 2.25 03/31/2026		8,437.50	8,437.50
09/30/2025	Coupon	912828YG9	300,000.00	UNITED STATES TREASURY 1.625 09/30/2026		2,437.50	2,437.50
09/30/2025	Coupon	91282CEF4	750,000.00	UNITED STATES TREASURY 2.5 03/31/2027		9,375.00	9,375.00
09/30/2025	Coupon	91282CFM8	570,000.00	UNITED STATES TREASURY 4.125 09/30/2027		11,756.25	11,756.25
09/30/2025	Coupon	91282CGT2	600,000.00	UNITED STATES TREASURY 3.625 03/31/2028		10,875.00	10,875.00
September 2025 Total					**1,497,159.54**	**115,734.27**	**1,612,893.81**
OCTOBER 2025							
10/06/2025	Coupon	89115A2W1	400,000.00	TORONTO-DOMINION BANK 4.98 04/05/2027		9,960.00	9,960.00
10/09/2025	Coupon	3130B3A29	600,000.00	FEDERAL HOME LOAN BANKS 4.0 10/09/2026		12,000.00	12,000.00
10/15/2025	Coupon	02582JJZ4	125,000.00	AMXCA 2023-1 A 4.87 05/15/2026		507.29	507.29
10/15/2025	Coupon	02582JKD1	340,000.00	AMXCA 2023-3 A 5.23 09/15/2028		1,481.83	1,481.83
10/15/2025	Coupon	161571HT4	340,000.00	CHAIT 2023-1 A 5.16 09/15/2028		1,462.00	1,462.00
10/15/2025	Coupon	20030NCS8	400,000.00	COMCAST CORP 3.95 10/15/2025		7,900.00	7,900.00
10/15/2025	Final Maturity	20030NCS8	400,000.00	COMCAST CORP 3.95 10/15/2025	400,000.00		400,000.00
10/15/2025	Coupon	448976AD2	140,000.00	HART 2024-C A3 4.41 05/15/2029		514.50	514.50
10/15/2025	Coupon	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027		218.75	218.75
10/15/2025	Principal Paydown	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027	8,615.81		8,615.81
10/15/2025	Coupon	44934QAD3	90,000.00	HART 2024-B A3 4.84 03/15/2029		363.00	363.00
10/15/2025	Coupon	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028		1,121.08	1,121.08
10/15/2025	Principal Paydown	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028	15,261.21		15,261.21
10/15/2025	Coupon	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026		4.99	4.99
10/15/2025	Effective Maturity	47787JAC2	33,204.09	JDOT 2022 A3 0.36 09/15/2026	2,578.79		2,578.79
10/15/2025	Coupon	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027		95.78	95.78
10/15/2025	Principal Paydown	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027	4,494.30		4,494.30
10/15/2025	Coupon	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027		314.61	314.61
10/15/2025	Principal Paydown	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027	6,368.74		6,368.74
10/15/2025	Coupon	58769GAD5	130,000.00	MBALT 2024-B A3 4.23 02/15/2028		458.25	458.25
10/15/2025	Coupon	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027		161.71	161.71
10/15/2025	Principal Paydown	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027	3,757.64		3,757.64
10/15/2025	Coupon	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026		12.10	12.10
10/15/2025	Principal Paydown	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026	3,939.30		3,939.30

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
10/15/2025	Coupon	89239TAD4	105,000.00	TAOT 2024-D A3 4.4 06/15/2029		385.00	385.00
10/15/2025	Coupon	91282CFP1	550,000.00	UNITED STATES TREASURY 4.25 10/15/2025		11,687.50	11,687.50
10/15/2025	Final Maturity	91282CFP1	550,000.00	UNITED STATES TREASURY 4.25 10/15/2025	550,000.00		550,000.00
10/15/2025	Coupon	91282CJC6	475,000.00	UNITED STATES TREASURY 4.625 10/15/2026		10,984.38	10,984.38
10/16/2025	Coupon	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028		242.75	242.75
10/16/2025	Principal Paydown	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028	5,552.72		5,552.72
10/16/2025	Coupon	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027		43.11	43.11
10/16/2025	Principal Paydown	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027	3,618.75		3,618.75
10/16/2025	Coupon	38014AAD3	95,000.00	GMCAR 2024-4 A3 4.4 08/16/2029		348.33	348.33
10/16/2025	Coupon	459058LN1	300,000.00	INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPM 3.875 10/16/2029		5,812.50	5,812.50
10/20/2025	Coupon	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026		69.46	69.46
10/20/2025	Principal Paydown	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026	8,833.42		8,833.42
10/20/2025	Coupon	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026		27.15	27.15
10/20/2025	Principal Paydown	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026	4,241.79		4,241.79
10/21/2025	Coupon	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027		119.59	119.59
10/21/2025	Principal Paydown	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027	3,748.22		3,748.22
10/27/2025	Coupon	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026		9.41	9.41
10/27/2025	Effective Maturity	05602RAD3	84,862.30	BMWOT 2022-A A3 3.21 08/25/2026	3,518.45		3,518.45
10/27/2025	Coupon	096924AD7	220,000.00	BMWOT 2025-A A3 4.56 09/25/2029		836.00	836.00
10/27/2025	Coupon	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026		1,002.84	1,002.84
10/27/2025	Principal Paydown	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026	17,472.34		17,472.34
10/27/2025	Coupon	3137BVZ82	320,000.00	FHMS K-063 A2 3.43 01/25/2027		914.67	914.67
10/27/2025	Coupon	3137FEBQ2	500,000.00	FHMS K-072 A2 3.444 12/25/2027		1,435.00	1,435.00
10/27/2025	Coupon	3137FETN0	465,000.00	FHMS K-073 A2 3.35 01/25/2028		1,298.13	1,298.13
10/27/2025	Coupon	3137FHPJ6	325,000.00	FHMS K-080 A2 3.926 07/25/2028		1,063.29	1,063.29
10/27/2025	Coupon	3137FJEH8	155,000.00	FHMS K-081 A2 3.9 08/25/2028		503.75	503.75
10/27/2025	Coupon	3137FJKE8	220,000.00	FHMS K-082 A2 3.92 09/25/2028		718.67	718.67
10/27/2025	Coupon	3137FJXV6	297,000.00	FHMS K-083 A2 4.05 09/25/2028		1,002.38	1,002.38
10/27/2025	Coupon	3137FJZ93	240,000.00	FHMS K-084 A2 3.78 10/25/2028		756.00	756.00
10/27/2025	Coupon	3137H4BY5	315,000.00	FHMS K-746 A2 2.031 09/25/2028		533.14	533.14

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
October 2025 Total					**1,042,001.48**	**76,368.92**	**1,118,370.41**
NOVEMBER 2025							
11/03/2025	Coupon	74456QBU9	300,000.00	PUBLIC SERVICE ELECTRIC AND GAS CO 3.7 05/01/2028		5,550.00	5,550.00
11/07/2025	Coupon	3135G06G3	350,000.00	FEDERAL NATIONAL MORTGAGE ASSOCIATION 0.5 11/07/2025		875.00	875.00
11/07/2025	Final Maturity	3135G06G3	350,000.00	FEDERAL NATIONAL MORTGAGE ASSOCIATION 0.5 11/07/2025	350,000.00		350,000.00
11/10/2025	Coupon	665859AW4	450,000.00	NORTHERN TRUST CORP 4.0 05/10/2027		9,000.00	9,000.00
11/13/2025	Coupon	63743HFK3	390,000.00	NATIONAL RURAL UTILITIES COOPERATIVE FINANCE CORP 5.6 11/13/2026		10,920.00	10,920.00
11/14/2025	Coupon	14913UAL4	405,000.00	CATERPILLAR FINANCIAL SERVICES CORP 5.0 05/14/2027		10,125.00	10,125.00
11/17/2025	Coupon	02582JJZ4	125,000.00	AMXCA 2023-1 A 4.87 05/15/2026		507.29	507.29
11/17/2025	Coupon	02582JKD1	340,000.00	AMXCA 2023-3 A 5.23 09/15/2028		1,481.83	1,481.83
11/17/2025	Coupon	161571HT4	340,000.00	CHAIT 2023-1 A 5.16 09/15/2028		1,462.00	1,462.00
11/17/2025	Coupon	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028		222.06	222.06
11/17/2025	Principal Paydown	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028	4,714.54		4,714.54
11/17/2025	Coupon	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027		32.13	32.13
11/17/2025	Principal Paydown	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027	3,534.18		3,534.18
11/17/2025	Coupon	38014AAD3	95,000.00	GMCAR 2024-4 A3 4.4 08/16/2029		348.33	348.33
11/17/2025	Coupon	448976AD2	140,000.00	HART 2024-C A3 4.41 05/15/2029		514.50	514.50
11/17/2025	Coupon	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027		185.87	185.87
11/17/2025	Principal Paydown	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027	8,214.42		8,214.42
11/17/2025	Coupon	44934QAD3	90,000.00	HART 2024-B A3 4.84 03/15/2029		363.00	363.00
11/17/2025	Coupon	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028		1,051.39	1,051.39
11/17/2025	Principal Paydown	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028	16,353.10		16,353.10
11/17/2025	Coupon	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027		81.77	81.77
11/17/2025	Principal Paydown	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027	4,786.01		4,786.01
11/17/2025	Coupon	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027		287.59	287.59
11/17/2025	Principal Paydown	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027	6,979.19		6,979.19
11/17/2025	Coupon	58769GAD5	130,000.00	MBALT 2024-B A3 4.23 02/15/2028		458.25	458.25

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
11/17/2025	Coupon	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027		147.59	147.59
11/17/2025	Principal Paydown	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027	3,676.07		3,676.07
11/17/2025	Coupon	58933YBH7	90,000.00	MERCK & CO INC 4.05 05/17/2028		1,822.50	1,822.50
11/17/2025	Coupon	89236TMF9	400,000.00	TOYOTA MOTOR CREDIT CORP 5.05 05/16/2029		10,100.00	10,100.00
11/17/2025	Coupon	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026		2.49	2.49
11/17/2025	Effective Maturity	89238FAD5	41,293.53	TAOT 2022-B A3 2.93 09/15/2026	1,018.03		1,018.03
11/17/2025	Coupon	89239TAD4	105,000.00	TAOT 2024-D A3 4.4 06/15/2029		385.00	385.00
11/17/2025	Coupon	9128283F5	800,000.00	UNITED STATES TREASURY 2.25 11/15/2027		9,000.00	9,000.00
11/17/2025	Coupon	912828R36	250,000.00	UNITED STATES TREASURY 1.625 05/15/2026		2,031.25	2,031.25
11/17/2025	Coupon	912828U24	625,000.00	UNITED STATES TREASURY 2.0 11/15/2026		6,250.00	6,250.00
11/17/2025	Coupon	912828X88	350,000.00	UNITED STATES TREASURY 2.375 05/15/2027		4,156.25	4,156.25
11/18/2025	Coupon	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026		13.97	13.97
11/18/2025	Principal Paydown	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026	4,129.07		4,129.07
11/20/2025	Coupon	3133ERFJ5	330,000.00	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.5 05/20/2027		7,425.00	7,425.00
11/20/2025	Coupon	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026		29.85	29.85
11/20/2025	Effective Maturity	379929AD4	75,000.00	GMALT 2023-3 A3 5.38 11/20/2026	6,658.42		6,658.42
11/21/2025	Coupon	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027		103.84	103.84
11/21/2025	Principal Paydown	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027	3,294.25		3,294.25
11/25/2025	Coupon	096924AD7	220,000.00	BMWOT 2025-A A3 4.56 09/25/2029		836.00	836.00
11/25/2025	Coupon	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026		962.87	962.87
11/25/2025	Principal Paydown	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026	18,183.25		18,183.25
11/25/2025	Coupon	3137BVZ82	320,000.00	FHMS K-063 A2 3.43 01/25/2027		914.67	914.67
11/25/2025	Coupon	3137FEBQ2	500,000.00	FHMS K-072 A2 3.444 12/25/2027		1,435.00	1,435.00
11/25/2025	Coupon	3137FETN0	465,000.00	FHMS K-073 A2 3.35 01/25/2028		1,298.13	1,298.13
11/25/2025	Coupon	3137FHPJ6	325,000.00	FHMS K-080 A2 3.926 07/25/2028		1,063.29	1,063.29
11/25/2025	Coupon	3137FJEH8	155,000.00	FHMS K-081 A2 3.9 08/25/2028		503.75	503.75
11/25/2025	Coupon	3137FJKE8	220,000.00	FHMS K-082 A2 3.92 09/25/2028		718.67	718.67
11/25/2025	Coupon	3137FJXV6	297,000.00	FHMS K-083 A2 4.05 09/25/2028		1,002.38	1,002.38
11/25/2025	Coupon	3137FJZ93	240,000.00	FHMS K-084 A2 3.78 10/25/2028		756.00	756.00
11/25/2025	Coupon	3137H4BY5	315,000.00	FHMS K-746 A2 2.031 09/25/2028		533.14	533.14

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
November 2025 Total					**431,540.52**	**94,957.65**	**526,498.17**
DECEMBER 2025							
12/01/2025	Coupon	26444HAH4	450,000.00	DUKE ENERGY FLORIDA LLC 2.5 12/01/2029		5,625.00	5,625.00
12/01/2025	Coupon	91282CAZ4	750,000.00	UNITED STATES TREASURY 0.375 11/30/2025		1,406.25	1,406.25
12/01/2025	Final Maturity	91282CAZ4	750,000.00	UNITED STATES TREASURY 0.375 11/30/2025	750,000.00		750,000.00
12/01/2025	Coupon	91282CMA6	200,000.00	UNITED STATES TREASURY 4.125 11/30/2029		4,125.00	4,125.00
12/08/2025	Coupon	3133ERGL9	450,000.00	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.5 06/07/2028		10,125.00	10,125.00
12/11/2025	Coupon	89115A2V3	160,000.00	TORONTO-DOMINION BANK 5.264 12/11/2026		4,211.20	4,211.20
12/15/2025	Coupon	02582JJZ4	125,000.00	AMXCA 2023-1 A 4.87 05/15/2026		507.29	507.29
12/15/2025	Coupon	02582JKD1	340,000.00	AMXCA 2023-3 A 5.23 09/15/2028		1,481.83	1,481.83
12/15/2025	Coupon	161571HT4	340,000.00	CHAIT 2023-1 A 5.16 09/15/2028		1,462.00	1,462.00
12/15/2025	Coupon	3133EPN50	650,000.00	FEDERAL FARM CREDIT BANKS FUNDING CORP 4.25 12/15/2028		13,812.50	13,812.50
12/15/2025	Coupon	341081GT8	330,000.00	FLORIDA POWER & LIGHT CO 5.15 06/15/2029		8,497.50	8,497.50
12/15/2025	Coupon	448976AD2	140,000.00	HART 2024-C A3 4.41 05/15/2029		514.50	514.50
12/15/2025	Coupon	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027		154.52	154.52
12/15/2025	Principal Paydown	448979AD6	134,307.21	HART 2023-A A3 4.58 04/15/2027	7,420.86		7,420.86
12/15/2025	Coupon	44934QAD3	90,000.00	HART 2024-B A3 4.84 03/15/2029		363.00	363.00
12/15/2025	Coupon	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028		976.71	976.71
12/15/2025	Principal Paydown	47787CAC7	310,000.00	JDOT 2023-C A3 5.48 05/15/2028	12,148.93		12,148.93
12/15/2025	Coupon	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027		66.85	66.85
12/15/2025	Principal Paydown	47800AAC4	75,694.48	JDOT 2022-B A3 3.74 02/16/2027	3,571.12		3,571.12
12/15/2025	Coupon	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027		257.99	257.99
12/15/2025	Principal Paydown	47800BAC2	157,450.93	JDOT 2022-C A3 5.09 06/15/2027	5,677.75		5,677.75
12/15/2025	Coupon	58769GAD5	130,000.00	MBALT 2024-B A3 4.23 02/15/2028		458.25	458.25
12/15/2025	Coupon	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027		133.78	133.78
12/15/2025	Principal Paydown	58770AAC7	79,316.68	MBART 2023-1 A3 4.51 11/15/2027	3,499.67		3,499.67
12/15/2025	Coupon	89239TAD4	105,000.00	TAOT 2024-D A3 4.4 06/15/2029		385.00	385.00
12/15/2025	Coupon	91282CGA3	600,000.00	UNITED STATES TREASURY 4.0 12/15/2025		12,000.00	12,000.00
12/15/2025	Final Maturity	91282CGA3	600,000.00	UNITED STATES TREASURY 4.0 12/15/2025	600,000.00		600,000.00

Payment Date	Transaction Type	CUSIP	Quantity	Security Description	Principal Amount	Income	Total Amount
12/15/2025	Coupon	91282CHH7	475,000.00	UNITED STATES TREASURY 4.125 06/15/2026		9,796.88	9,796.88
12/15/2025	Coupon	91282CJP7	300,000.00	UNITED STATES TREASURY 4.375 12/15/2026		6,562.50	6,562.50
12/16/2025	Coupon	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028		204.50	204.50
12/16/2025	Principal Paydown	362583AD8	115,000.00	GMCAR 2023-2 A3 4.47 02/16/2028	4,449.97		4,449.97
12/16/2025	Coupon	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027		21.41	21.41
12/16/2025	Principal Paydown	36265WAD5	48,349.15	GMCAR 2022-3 A3 3.64 04/16/2027	3,360.33		3,360.33
12/16/2025	Coupon	38014AAD3	95,000.00	GMCAR 2024-4 A3 4.4 08/16/2029		348.33	348.33
12/18/2025	Coupon	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026		1.14	1.14
12/18/2025	Effective Maturity	43815PAC3	48,478.81	HAROT 2022-2 A3 3.73 07/20/2026	365.31		365.31
12/22/2025	Coupon	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027		90.01	90.01
12/22/2025	Principal Paydown	43815JAC7	61,611.84	HAROT 2023-1 A3 5.04 04/21/2027	3,145.29		3,145.29
12/25/2025	Coupon	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026		921.28	921.28
12/25/2025	Principal Paydown	3137BNGT5	472,678.25	FHMS K-054 A2 2.745 01/25/2026	114,819.26		114,819.26
12/25/2025	Coupon	3137BVZ82	320,000.00	FHMS K-063 A2 3.43 01/25/2027		914.67	914.67
12/25/2025	Coupon	3137FEBQ2	500,000.00	FHMS K-072 A2 3.444 12/25/2027		1,435.00	1,435.00
12/25/2025	Coupon	3137FETN0	465,000.00	FHMS K-073 A2 3.35 01/25/2028		1,298.13	1,298.13
12/25/2025	Coupon	3137FHPJ6	325,000.00	FHMS K-080 A2 3.926 07/25/2028		1,063.29	1,063.29
12/25/2025	Coupon	3137FJEH8	155,000.00	FHMS K-081 A2 3.9 08/25/2028		503.75	503.75
12/25/2025	Coupon	3137FJKE8	220,000.00	FHMS K-082 A2 3.92 09/25/2028		718.67	718.67
12/25/2025	Coupon	3137FJXV6	297,000.00	FHMS K-083 A2 4.05 09/25/2028		1,002.38	1,002.38
12/25/2025	Coupon	3137FJZ93	240,000.00	FHMS K-084 A2 3.78 10/25/2028		756.00	756.00
12/25/2025	Coupon	3137H4BY5	315,000.00	FHMS K-746 A2 2.031 09/25/2028		533.14	533.14
12/26/2025	Coupon	096924AD7	220,000.00	BMWOT 2025-A A3 4.56 09/25/2029		836.00	836.00
12/26/2025	Coupon	437076DC3	295,000.00	HOME DEPOT INC 4.75 06/25/2029		7,006.25	7,006.25
12/31/2025	Coupon	91282CGC9	500,000.00	UNITED STATES TREASURY 3.875 12/31/2027		9,687.50	9,687.50
December 2025 Total					**1,508,458.48**	**110,264.97**	**1,618,723.45**
Grand Total			**146,819,273.51**		**9,875,614.01**	**1,042,057.72**	**10,917,671.73**

IMPORTANT DISCLOSURES

City of Gardena Cons | Account #10647 | As of January 31, 2025

Chandler Asset Management, Inc. ("Chandler") is an SEC registered investment adviser. For additional information about our firm, please see our current disclosures (Form ADV). To obtain a copy of our current disclosures, you may contact your client service representative by calling the number on the front of this statement or you may visit our website at www.chandlerasset.com.

Information contained in this monthly statement is confidential and is provided for informational purposes only and should not be construed as specific investment or legal advice. The information contained herein was obtained from sources believed to be reliable as of the date of this statement, but may become outdated or superseded at any time without notice.

Custody: Your qualified custodian bank maintains control of all assets reflected in this statement and we urge you to compare this statement to the one you receive from your qualified custodian. Chandler does not have any authority to withdraw or deposit funds from/to the custodian account.

Valuation: Prices are provided by IDC, an independent pricing source. In the event IDC does not provide a price or if the price provided is not reflective of fair market value, Chandler will obtain pricing from an alternative approved third party pricing source in accordance with our written valuation policy and procedures. Our valuation procedures are also disclosed in Item 5 of our Form ADV Part 2A.

Performance: Performance results are presented gross-of-advisory fees and represent the client's Total Return. The deduction of advisory fees lowers performance results. These results include the reinvestment of dividends and other earnings. Past performance may not be indicative of future results. Therefore, clients should not assume that future performance of any specific investment or investment strategy will be profitable or equal to past performance levels. All investment strategies have the potential for profit or loss. Economic factors, market conditions or changes in investment strategies, contributions or withdrawals may materially alter the performance and results of your portfolio.

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Index returns assume reinvestment of all distributions. Historical performance results for investment indexes generally do not reflect the deduction of transaction and/or custodial charges or the deduction of an investment management fee, the incurrence of which would have the effect of decreasing historical performance results. It is not possible to invest directly in an index.

Ratings: Ratings information have been provided by Moody's, S&P and Fitch through data feeds we believe to be reliable as of the date of this statement, however we cannot guarantee its accuracy.

Security level ratings for U.S. Agency issued mortgage-backed securities ("MBS") reflect the issuer rating because the securities themselves are not rated. The issuing U.S. Agency guarantees the full and timely payment of both principal and interest and carries a high rating by S&P, Moody's and Fitch respectively.

CITY of GARDENA

Report No. P-2025-4

TO: THE HONORABLE MAYOR AND CITY COUNCIL

SUBJECT: PERSONNEL REPORT

1. Report the Appointment of the following individuals:
   a. ***DANIEL CANOVAS PEREZ,*** to the position of Park Maintenance Worker I, Schedule 34 ($4,023 - $5,135/month), with the Public Works Department, effective January 19, 2025.
   b. ***ANTHONY CABACUNGAN,*** to the position of Help Desk Technician, Schedule 35 ($4,124 - $5,264/month), with the Administrative Services Department, effective February 2, 2025.
   c. ***CASSIDI KISSINGER***, to the position of Crime Analyst, Schedule 55 ($6,759 - $8,627/month), with the Police Department, effective February 3, 2025.

2. Report the Service Retirement of the following individuals:
   a. ***TONYA HILL***, Bus Operator, with the Transportation Department, effective January 23, 2025. Ms. Hill provided 25.0 years of full-time service to the City.
   b. ***MARC EDWARDS,*** Bus Operator, with the Transportation Department, effective February 4, 2025. Mr. Edwards provided 3.8 years of full-time service to the City.

3. Report the Separation of the following individuals:
   a. ***KENYA COMPTON***, Bus Operator, with the Transportation Department, effective February 11, 2025. Ms. Compton provided four months of full-time service to the City.
   b. ***CRYSTAL MILES***, Bus Operator, with the Transportation Department, effective February 11, 2025. Ms. Miles provided four months of full-time service to the City.
   c. ***WILLIE STANFIELD***, Bus Operator, with the Transportation Department, effective February 11, 2025. Mr. Stanfield provided four months of full-time service to the City.

4. Report the Recruitment for the Open/Competitive position of Administrative Analyst I (Administrative Services Department). This recruitment is open until filled.

5. Report the Recruitment for the Closed/Promotional position of Police Captain (Police Department). This recruitment is scheduled to close March 10, 2025.

6. Report the Recruitment for the Open/Competitive position of Police Officer/Lateral (Police Department). This is a continuous recruitment.

7. Report the Recruitment for the Open/Competitive position of Police Trainee (Police Department). This is a continuous recruitment.

8. Report the Recruitment for the Open/Competitive position of Custodian I (Recreation and Human Services Department). This recruitment is scheduled to close February 21, 2025.

9. Report the Recruitment for the Open/Competitive position of Recreation Leader I/II (Recreation and Human Services Department). This is a continuous recruitment.

10. Report the Recruitment for the Open/Competitive position of Bus Operator (Transportation Department). This is a continuous recruitment.

11. Report the Recruitment for the Open/Competitive position of On-Demand Transit Dispatcher (Transportation Department). This is a continuous recruitment.

12. Report the Recruitment for the Open/Competitive position of Transit Mechanic (Transportation Department). This recruitment is open until filled

13. Report the Recruitment for the Open/Competitive position of Transportation Operations Supervisor (Transportation Department). This recruitment is open until filled.

City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 8.F
Section: CONSENT CALENDAR
Meeting Date: February 25, 2025

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: SECOND READING AND ADOPTION OF ORDINANCE NO. 1877 , Amending the Gardena Municipal Code Chapter 18.66 and Section 18.36.020 relating to allowing non-storefront retail medical cannabis delivery services businesses in the M-1 and M-2 zoning districts.

CONTACT: COMMUNITY DEVELOPMENT

COUNCIL ACTION REQUIRED:

RECOMMENDATION AND STAFF SUMMARY:

On October 8, 2024, Ordinance No. 1875 was introduced to the City Council, proposing updates to the municipal code to allow non-storefront retail medicinal cannabis delivery services, in line with Senate Bill 1186 (SB 1186). Before the second reading, staff reassessed the impact on non-storefront retailers, especially regarding the distance requirement for mobile home parks located in or near the industrial zones. This led to the creation of Ordinance No. 1877, which included the same amendments but with a revised distance requirement for properties with mobile home park uses.

On December 3, 2024, the Planning Commission recommended that the City Council adopt Ordinance No. 1877. Subsequently, on February 11, 2025, the City Council held a public hearing to review the ordinance, during which Mayor Pro Tem Tanaka introduced Ordinance No. 1877.

FINANCIAL IMPACT/COST:

None.

ATTACHMENTS:

Ordinance No. 1877

APPROVED:

_____

Clint Osorio, City Manager

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ORDINANCE NO. 1877

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, AMENDING CHAPTER 18.66 AND SECTION 18.36.020 AND ADDING CHAPTER 5.80 TO THE GARDENA MUNICIPAL CODE RELATING TO NON-STOREFRONT RETAIL MEDICINAL CANNABIS DELIVERY SERVICE BUSINESSES

WHEREAS, on November 6, 1996, California voters approved Proposition 215, the "Compassionate Use Act of 1996", an initiative measure that declared that its purpose was, among other things, to ensure that seriously ill Californians have the right to obtain and use marijuana for medical purposes and exempts from state criminal liability certain patients and their primary caregivers who possess or cultivate marijuana for the personal medical purposes of the patient; and

WHEREAS, on October 9, 2015, Assembly Bill 243, Assembly Bill 266, and Senate Bill 643 were signed into law, which collectively were known as the Medical Cannabis Regulation and Safety Act (hereinafter "MCRSA") and established a state regulatory and licensing scheme for commercial and medical cannabis businesses; and

WHEREAS, on November 8, 2016, California voters approved Prop 64, the "Control, Regulate and Tax Adult Use of Marijuana Act" ("AUMA"), an initiative measure which made it lawful under state and local law for persons 21 years of age or older to possess and cultivate limited quantities of cannabis for personal non-medical or recreational use. The AUMA also established a state regulatory and licensing scheme for commercial adult-use cannabis businesses; and

WHEREAS, on June 27, 2017, Senate Bill 94 was signed into law and repealed the MCRSA, included certain portions of the MCRSA in the licensing provisions of the AUMA, and created a single regulatory scheme known as the Medicinal and Adult-Use Cannabis Regulation and Safety Act ("MAUCRSA") to regulate both medical and non-medical cannabis and retained certain provisions from MCRSA and AUMA that granted local jurisdictions control over whether commercial cannabis activity could occur in a particular jurisdiction; and

WHEREAS, Gardena Municipal Code Chapter 18.66 currently prohibits all cannabis activity in the City except for personal cultivation, including all delivery of cannabis to or from destinations within the city, including for medical purposes; and

WHEREAS, on September 18, 2022, Governor Newsom signed Senate Bill No. 1186 into law, which is referred to as the Medicinal Cannabis Patients' Right of Access Act, codified as Chapter 26 (commencing with Section 26320) to Division 10 of the Business and Professions Code, ("MCPRAA"); and

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WHEREAS, the MCPRAA further prohibits cities from adopting or enforcing any regulations on or after January 1, 2024, that have the effect of prohibiting the retail sale by delivery within the local jurisdiction of medicinal cannabis to medicinal cannabis patients or their primary caregivers in a timely and readily accessible manner and in types and quantities that are sufficient to meet demand from medicinal cannabis patients within the jurisdiction; and

WHEREAS, Sections 5 and 7 of Article XI of the California Constitution, and the provisions of the Medical Cannabis Regulation and Safety Act ("MCRSA") as amended by the Medical and Adult-Use Cannabis Regulation and Safety Act ("MAUCRSA"), authorize cities to adopt ordinances that establish standards, requirements, and regulations for local licenses and permits for commercial cannabis and cannabis related activity. Any standards, requirements, and regulations regarding health and safety, security, and worker protections established by the State of California, or any of its departments or divisions, shall be the minimum standards applicable to medicinal cannabis related activity in a city; and

WHEREAS, the City desires to amend the Gardena Municipal Code to reflect the requirements of SB 1186 and appropriately regulate the establishment of physical premises from which retail sale by delivery of medicinal cannabis within the City is conducted by a licensed non-storefront retailer; and

WHEREAS, Chapter 18.66 of the Gardena Municipal Code imposes reasonable regulations consistent with state law to protect the city's neighborhoods, residents, and businesses from negative public safety and aesthetic impacts associated with the transporting, delivery, and distribution of medicinal cannabis and medicinal cannabis products to patients within the City; and

WHEREAS, on December 3, 2024, the Planning Commission of the City of Gardena, held a duly noticed public hearing at which time it considered all evidence presented, both written and oral regarding the proposed amendments to Title 18 of the Gardena Municipal Code as set forth in this Ordinance, after which time it adopted Resolution No. PC 21-24 recommending that the City Council adopt this Ordinance and make a finding that the Ordinance falls under the common sense exemption of CEQA set forth in Guidelines section 15061(b)(3); and

WHEREAS, on February 11, 2025, the City Council of the City of Gardena held a duly noticed public hearing and considered the staff report, recommendations by staff, and public testimony regarding this Ordinance, at which time it considered all evidence presented, both written and oral; and

WHEREAS, the proposed Zoning Code amendments are consistent with the City’s General Plan; and

WHEREAS, all legal requirements prior to the adoption of this Ordinance have occurred.

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NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA DOES ORDAIN AS FOLLOWS:

SECTION 1. The City Council finds that the recitals set forth above are true and correct.

SECTION 2. Sections 18.66.010, 18.66.020, and 18.66.030 of Chapter 18.66 (Cannabis Prohibition and Personal Cultivation Regulations/Permitting) of the Gardena Municipal Code are hereby amended to read as follows; the rest of the provisions of Chapter 18.66 remain the same.p

18.66.010 Purpose.

A. ~~A.~~ The purpose of this chapter is to expressly prohibit the establishment of commercial cannabis uses in the city relating to medical cannabis and adult use non-medicinal cannabis, except to the extent that allowing the retail delivery of medical cannabis and cannabis products to medical cannabis patients within the city by a non-storefront retailer is required by law.

~~A.~~B. The purpose of this chapter is also ~~as well as~~ to impose reasonable regulations on both personal cultivation in private residences and accessory structures and on non-storefront retailers and impose ~~a~~ permitting schemes on such uses.

C~~B~~. The city council finds that except as provided for herein and as required by law, the prohibition on ~~storefront~~ commercial cannabis activity is necessary for the preservation ~~of~~ and protection of the public health, safety, and welfare of the city. The prohibition of such uses is within the authority conferred upon the city council by state law and is an exercise of its police powers to enact and enforce regulations for the public health, safety, and welfare.

18.66.020 Definitions.

A. "Adult Use" or "non-medical use" means the recreational or personal use of cannabis by a natural person 21 years of age or older, as used in MAUCRSA.

B. "Authorized grower" ~~shall mean~~means a person twenty-one years and older who is authorized by, and in compliance with, state law and the provisions of this chapter relating to the cultivation of cannabis for personal use.

~~B~~C. "Cannabis" means all parts of the plant Cannabis sativa Linnaeus, Cannabis indica, or Cannabis ruderalis, whether growing or not; the seeds thereof; the resin, whether crude or purified, extracted from any part of the plant; and every compound, manufacture, salt, derivative, mixture, or preparation of the plant, its seeds, or resin. "Cannabis" also means the separated resin, whether crude or purified, obtained from cannabis, and any product containing cannabis. "Cannabis" includes cannabis that is used for medical, nonmedical, or other purposes. "Cannabis" does not include the mature

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stalks of the plant, fiber produced from the stalks, oil or cake made from the seeds of the plant, any other compound, manufacture, salt, derivative, mixture, or preparation of the mature stalks (except the resin extracted therefrom), fiber, oil, or cake, or the sterilized seed of the plant which is incapable of germination. "Cannabis" also does not include industrial hemp, as defined in California Health and Safety Code Section 11018.5.

~~C~~D. "Commercial cannabis activity" means the cultivation, possession, manufacture, distribution, processing, storing, laboratory testing, labeling, packaging, transportation, delivery or sale of cannabis and cannabis products for nonmedical, medical or any other purpose, and includes the activities of any business licensed by the state or other government entity under Division 10 of the California Business and Professions Code or any other provision of state law that regulates the licensing of cannabis businesses.

~~D~~E. "Cultivation" means any activity involving the planting, growing, harvesting, drying, curing, grading, or trimming of cannabis.

~~E~~F. "Delivery" means the commercial transfer of cannabis or cannabis products to a customer. Delivery also includes the use by a retailer of any technology platform owned and controlled by the retailer.

~~F~~G. "Fully enclosed and secure structure" means a space within a building that complies with the California Building Code ("CBC") as adopted by the city of Gardena, or if exempt from the permit requirements of the CBC, a structure that has a complete roof, a foundation, slab or equivalent base to which the floor is secured by bolts or similar attachments, is secure against unauthorized entry, and is accessible only through one or more lockable doors. Walls and roofs must be constructed of solid materials that cannot be easily broken through such as two-inch by four-inch nominal or thicker studs overlaid with three-eighths-inch or thicker plywood or the equivalent. Plastic sheeting, regardless of the mil or inches, or similar products do not satisfy this requirement. If skylights are used, security bars shall be added to the skylights. The structure must provide complete visual screening.

~~G~~H. "Indoors" means within a fully enclosed and secure structure.

~~H~~I. "MAUCRSA" means the Medicinal and Adult-Use Cannabis Regulation and Safety Act, as codified in Division 10 of the California Business and Professions Code (Section 26000 et seq.) as the same may be amended from time to time.

J. "MCPRAA" means the Medicinal Cannabis Patients' Right to Access Act, as codified in Chapter 26 (commencing with Section 26320) to Division 10 of the Business and Professions Code.

K. "Medicinal Cannabis" means both medicinal cannabis and medicinal cannabis products, as those terms are defined in Section 26001(ai)(1) of the Business and Professions Code.

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L. "Medical Use" or "medicinal use" shall mean the use of medicinal cannabis by a medicinal cannabis patient.

ML. "Medicinal cannabis business" means a retailer authorized to engage in the retail sale by delivery of medicinal cannabis to medicinal cannabis patients pursuant to an M-license, as defined in the MCPRAA.

N. "Medicinal cannabis delivery service" means a state-licensed, non-storefront retailer that sells and delivers only medicinal cannabis and medicinal cannabis products to medicinal cannabis patients.

OM. "Medicinal cannabis patient" means a qualified patient or a primary caregiver for a qualified patient, as the same are defined in Section 11362.7 of the Health and Safety Code.

P. "Non-storefront retailer" means a retailer that sells cannabis goods to customers only through delivery and whose business is closed to the public.

IQO. "Outdoors" means any location that is not within a fully enclosed and secure structure.

JPR. "Person" means any person, firm, corporation, partnership, joint venture, limited liability company, collective, cooperative, nonprofit, trust, estate, association, club, receiver, syndicate, society, or other organization. The term "person" shall include any owner, manager, proprietor, employee, volunteer, or salesperson.

KQS. "Private residence" means a house, apartment unit, condominium, mobile home, or other similar dwelling that is lawfully used as a residence.

18.66.030 Prohibition.

A. Commercial cannabis activities, whether or not for profit, are expressly prohibited in all zones in the city of Gardena, including all specific plan areas and overlay zones. No person shall establish, operate, conduct, allow or engage in a commercial cannabis activity anywhere within the city. This prohibition includes any type of business enterprise where cannabis is complimentarily provided as part of any other non-cannabis-related business activity.

B. A property owner shall not rent, lease, or otherwise permit any person or business that engages in commercial cannabis activity to occupy real property in the city. A property owner shall not allow any person or business to establish, operate, maintain, conduct, or engage in commercial cannabis activity on any real property owned or controlled by that property owner that is located in the city.

C. To the extent not already covered by subsection A of this section, all deliveries of non-medicinal cannabis are expressly prohibited within the City of Gardena. No person

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shall conduct any deliveries that either originate or terminate within the city, but the city shall not prohibit the use of city streets where the delivery does not originate or end within the jurisdictional limits of the city.

D. This section is meant to prohibit all commercial retail activities for which a state license is required, except for a medicinal cannabis delivery service ~~pursuant to the MAUCRSA~~. Accordingly, the city shall not issue any permit, license or other entitlement for any activity for which a state license is required ~~under the AUMA~~, including any local license to a non-profit entity pursuant to California Business and Professions Code Section 26070.5, except for a permit for a medicinal cannabis delivery service as provided for in Chapter 5.80 of this Code.

E. Except as provided in Section 18.66.040, all cultivation of cannabis is expressly prohibited in all zones in the C~~c~~ity of Gardena.

F. Notwithstanding any other provision of this chapter, the prohibitions set forth herein do not apply to the delivery by a non-storefront retailer of medicinal cannabis to a medicinal cannabis patient for medical use within the city.

SECTION 3. Section 18.36.020 of the Gardena Municipal Code relating to uses allowed in the M-1 zone, is hereby amended by **adding** a new subsection P. to read as follows:

P. Medicinal cannabis delivery service as defined in Chapter 18.66, subject to the following requirements:

1. The owner of the medicinal cannabis delivery service has obtained a medicinal cannabis delivery service permit prior to the commencement of operations in accordance with Chapter 5.80 of this Code, as well as a business license as required by Chapter 5.04 of this Code.

2. The medicinal cannabis delivery service businesses shall be located at least 600 feet from the following sensitive receptors. All measurements shall be taken from the closest property line of the medicinal cannabis delivery service business to the closest property line of the sensitive receptor.

a. A lot containing a single-family residential dwelling unit;

b. Public or private schools;

b. Daycare centers as defined by Health and Safety Code section 1596.76;

c. Churches;

d. Public parks;

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e. Libraries;

f. Youth centers, which for purposes of this section shall mean a public or private facility that is primarily used to host recreation or social activities for minors, including:

1. Private youth membership organizations or clubs;
2. Social service teenage club facilities;
3. Any facility used for youth activities at least 60 percent of the time in a calendar year;
4. A park, playground or recreational area located on a public or private school grounds or in a city, county or state park specifically designed to be used by children or which has play equipment installed, including public grounds designed for athletic activities including courts or fields; or
5. A similar facility to one of the above.

g. Any other medicinal cannabis delivery service business.

3. The medicinal cannabis delivery service businesses shall be located at least 300 feet from any mobile home park. All measurements shall be taken from the closest property line of the medicinal cannabis delivery service business to the closest property line of the mobile home park.

SECTION 4. Chapter 5.80 (Medical Cannabis Delivery Service Businesses) is hereby **added** to Title 5 (Business Licenses and Regulations) of the Gardena Municipal Code to read as follows:

Chapter 5.80

MEDICINAL CANNABIS DELIVERY SERVICE BUSINESSES

5.80.010 Purpose and intent.

The purpose and intent of this chapter is to implement the provisions of Chapter 26 (commencing with Section 26320) of Division 10 of the California Business and Professions Code, referred to as the Medicinal Cannabis Patients' Right to Access Act. This chapter also imposes a regulatory permitting scheme and reasonable regulations to protect the city's neighborhoods, residents, and businesses from negative impacts associated with the delivery of medicinal cannabis.

5.80.020 Definitions.

All definitions in Chapter 18.66 of this code also apply to this chapter.

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Any term defined in Title 4, Division 19 of the California Code of Regulations, that is not otherwise defined herein, shall have the meaning ascribed to it in that Division.
"Business Owner" means the same as that set forth in Title 14 of the California Code of Regulations, section 15003.

"Business Permit" means a permit for a medicinal cannabis delivery service business.

"CCR" shall mean Title 4, Division 19 of the California Code of Regulations.

"Chief" means the Chief of Police of the Gardena Police Department or the Chief's designee.

"Disqualifying conduct" means, except for item 1, within the 10 years preceding the date of the application, or in the case of revocation or suspension proceedings, within 10 years preceding the date of the revocation or suspension notice, a person has had:

1. Within the three years preceding the date of the application, or in the case of revocation or suspension proceedings, within three years preceding the date of the revocation or suspension notice, the applicant has had a suspension or revocation of a commercial cannabis license, or any convictions or administrative citations that are final for operating an unlicensed commercial cannabis activity;

2. A violent felony conviction, as specified in Penal Code section 667.5(c);

3. A serious felony conviction, as specified in Penal Code section 1192.7(c;

4. A felony conviction involving fraud, deceit, or embezzlement;

5. A felony conviction for hiring, employing, or using a minor in transporting, carrying, selling, giving away, preparing for sale, or peddling, any controlled substance to a minor; or selling, offering to sell, furnishing, offering to furnish, administering, or giving any controlled substance to a minor;

6. A felony conviction for drug trafficking with enhancements pursuant to Health and Safety Code section 11370.4 or 11379.8;

7. A conviction for any controlled substance felony;

8. A conviction for the intentional and knowing sale of cannabis to a person under 21 years of age;

9. A conviction for the intentional and knowing sale of medicinal cannabis to a person without a physician's recommendation;

10. A conviction for the sale of cannabis without a license.

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For purposes of this chapter, a conviction means a plea or verdict of guilty or a conviction or diversion following a plea of nolo contendere.

“Employee Permit” means a permit for an individual employed by a medicinal cannabis delivery service business.

5.80.030 Permit/business license required.

A. No person shall engage in or conduct any medicinal cannabis delivery service business within the city without first obtaining a business permit under this chapter and having a state license to operate as a non-storefront retailer. A separate business permit shall be required for each physical address location within the city. An applicant may not apply for a business license until the applicant has received the state license.

B. No person shall be employed by a medicinal cannabis delivery service business within the city without first obtaining an employee permit under this chapter. No permit shall be issued to an individual under 21 years of age.

5.08.040 Application.

A. An application for a business permit or employee permit shall be on a form provided by the Gardena Police Department, shall be signed and dated, and shall be accompanied by a permit fee in an amount set by resolution of the City Council.

B. All applications shall include the following statements:

1. A certification under penalty of perjury that the information contained in the application is true and correct;

2. An authorization for the city, its officers, agents and employees to seek information and conduct an investigation into the truth of the statements set forth in the application and to ensure continual compliance with all applicable provisions of law;

3. An agreement to the fullest extent permitted by law to indemnify, defend (at the applicant's sole cost and expense), and hold the city, and its officers, elected and appointed officials, employees, volunteers, and agents harmless, from any and all claims, losses, damages, injuries, including death, liabilities or losses which arise out of, or which are in any way related to, the city's issuance of the permit, the city's decision to approve the permit, the process used by the city in making its permitting decision, or the alleged violation of any laws by the applicant, its officers, employees, or agents.

C. An application for either a business permit or employee permit shall contain the following information:

1. The legal first and last name of the applicant;

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2. The date of birth of the applicant;

3. The address of the applicant;

4. The email address of the applicant;

5. Whether the applicant has engaged in any disqualifying conduct;

6. Such further information as the Chief determines necessary to determine compliance with this chapter and applicable provisions of law;

7. A complete set of the applicant's fingerprints taken by the Gardena police department. The applicant shall be responsible for payment of any fingerprinting fee;

8. All applicants shall have their picture taken by the Gardena police department;

D. Business Permit Application. An application for a business permit shall contain the following additional information:

1. An application for a business permit shall be filed for each business owner.

2. Both the business owner and the property owner, if different, shall sign the business permit application form.

3. The legal business name of the medicinal cannabis delivery service business;

4. The physical address of the business;

5. The mailing address of the business if different from the physical address;

6. The telephone number of the business;

7. The website address of the business, if any;

8. Identification of the owner that will serve as the primary contact person, including the person's title; and

9. A site plan showing a complete and detailed diagram of the proposed business location as required by CCR section 15006(b) through (f).

E. Employee Permit Application – An application for an employee permit shall contain the following additional information:

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1. The legal business name of the medicinal cannabis delivery service business where the applicant will be employed; and

2. The physical address of the business.

F. Renewal. A permit issued pursuant to this chapter shall expire 12 months after the date of its issuance and must be a renewed on a yearly basis. A renewal application shall contain the same information as the original application, but new fingerprints need not be provided and a new site plan need not be submitted if there has been no change.

5.80.050 Duty to Update.

A. A permittee shall be required to update the information contained in the application within 10 business days of such change.

B. Reporting legal matters. The business owner shall notify the Chief in writing of the following legal matters pending against the owner, in its individual capacity or otherwise, within 48 hours of the date of conviction, judgment, order, or final decision:

1. Criminal conviction. The written notification to the city shall include the date of the conviction, the court docket number, the name of the court in which the conviction was entered, and the specific offense(s) resulting in a conviction(s).

2. Civil penalty or judgment. The written notification shall include the date of verdict, entry of judgment, or order, the court docket number, the name of the court in which the matter was adjudicated, and a description of the civil penalty or judgment rendered.

3. Administrative order. The written notification shall include the date of the order, the name of the agency issuing the order, and a description of the administrative penalty or decision rendered against the business owner or property owner.

4. Revocation or suspension of a state or local license, permit, or other authorization. The written notification shall include the name of the local agency involved, a written explanation of the proceeding or enforcement action, and the specific violation(s) that led to the revocation or suspension.

5.80.060 Decision on the application; permit approval, denial, suspension and revocation.

A. The Chief is authorized to approve, deny, suspend, or revoke the permits required under this chapter.

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B. Upon receipt of a completed application, the Chief shall cause an investigation to be conducted by the appropriate departments within the city, including state and local background checks.

C. The Chief shall act upon an application within 30 working days following receipt. Notwithstanding the above, failure to act upon a completed application within the time frame set forth above shall not be deemed approval of the application. Any permit issued pursuant to this subsection shall be deemed conditional pending the city's receipt of the California Department of Justice report on the applicant's fingerprints.

D. Permit Issuance. When an application, including a renewal, is approved, in addition being issued a permit, an identification badge shall be issued to every business owner and employee. The identification badge shall include the permit number and the expiration date.

E. Grounds for Denial. An application for a permit or renewal shall be denied if any of the following grounds are found to exist:

1. The applicant has engaged in disqualifying conduct;

2. There has been a material misrepresentation on the application;

3. There has been a material misrepresentation on the site plan;

4. Application deficiencies. The application is incomplete, supportive documentation was not provided, and/or the applicant failed to correct deficiencies in the application or provide additional application information within the response timeframe requested; or

5. For a business permit, facts or circumstances exist which indicate that the business does or would very likely constitute a threat to public health, safety, and/or welfare.

F. Grounds for revocation or suspension. A permit issued pursuant to this chapter may be suspended or revoked by the Chief if any of the following grounds are found to exist:

1. Any reason exists which would have resulted in a denial of the application in the first instance;

2. For a business permit, there have been modifications to the operations of the business as shown on the original site plan;

3. For a business permit, there has been a change in the business owners and such new owners have not obtained a permit;

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4. The Chief has determined, based on substantial evidence, that the permittee is in violation of the requirements of this chapter, of this Code, or state law; or

5. Suspension or expiration without timely renewal of a license issued by the State of California, or by any of its departments or divisions, shall immediately suspend the ability of a medicinal cannabis delivery service business to operate within the city until the State of California, or any of its departments or divisions, reinstates or reissues the state license. Revocation or termination of the license of a medicinal cannabis delivery service business by the State of California, or any of its departments or divisions, shall immediately revoke or terminate the ability of a medicinal cannabis delivery service business to operate within the city without notice. If the city becomes aware that a state license has expired or been suspended, revoked, or terminated, it will initiate proceedings under this section to suspend or revoke a business permit.

6. If, in the discretion of the Chief, an alleged violation is minor and capable of correction, then prior to suspension or revocation a written notice shall be given to the permittee of the alleged violation(s) involved to allow a period of time to correct the alleged violation(s), which period shall not exceed five business days, at the end of which period an inspection shall be conducted to determine whether the alleged violation(s) has been corrected. For purposes of this section, written notice may be in the form of a notice of violation or an administrative citation.

G. Any denial, suspension or revocation shall be accompanied by a written statement setting forth the reason for the decision. A notice of suspension or revocation may be accompanied by an administrative or criminal citation. Any notice may be appealed in accordance with section 5.80.070.

5.80.070 Appeals.

A. An appeal from a decision of the Chief shall be conducted as prescribed in this section.

B. Within 10 calendar days after the date a decision of the Chief is mailed by first-class mail, postage prepaid, to deny, suspend, or revoke a permit, or to add conditions to a permit, an aggrieved party may appeal such action by filing a written appeal with the city clerk setting forth the reasons why the decision was not proper. The notice of appeal shall specify:

1. The name and address of the appellant;

2. The date that the permit application was filed with the city;

3. The date of the mailing of the decision to deny, suspend, revoke, or condition the permit which is being appealed; and

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4. The factual basis for the appeal.

C. An appeal shall be accompanied by a fee set by resolution of the City Council. An appeal without the timely payment of the fee shall be considered to be untimely.

D. Upon receipt of a complete and timely filed notice of appeal, the City Clerk shall schedule a hearing before a hearing officer. The hearing officer shall be either the city manager or an administrative hearing officer hired under contract by the city manager.

E. The appellant shall be provided with written notice of the time and place of the appeal hearing, as well as a copy of all relevant materials, at least seven calendar days prior to the hearing.

F. The scope of the appeal hearing shall be limited to those issues raised by the appellant in the written appeal.

G. At the time of the hearing, the hearing officer shall review the records and files relating to the notice of decision.

1. The hearing officer shall permit any interested person, including the chief of police and the appellant, to present any relevant evidence bearing on the issues involved in the matter.

2. In conducting the hearing, technical rules relating to evidence and witnesses shall not apply. Any relevant evidence may be admitted if it is material and if it is evidence customarily relied upon by responsible persons in the conduct of their affairs regardless of the existence of any common law or statutory rule which might make admission of such evidence improper over objection in civil actions. Hearsay evidence may be admissible if it is the sort upon which reasonable persons are accustomed to rely in the conduct of serious affairs. The rules of privilege shall be applicable to the extent they are now or are hereafter permitted in civil actions. Irrelevant, collateral, and repetitious testimony shall be excluded.

3. In determining whether a person should be disqualified for meeting the definition of disqualifying conduct, the hearing officer may consider: the nature and severity of the act(s) or crime(s); whether there were any additional subsequent act(s) or crime(s); the number of act(s) or crime(s); and how recent the act(s) or crime(s) were.

H. The appellant shall have the burden of proving that he or she meets the requirements for issuing the permit in the first instance. The Chief shall have the burden of proving that grounds exist for revoking or failing to renew a permit.

I. Based upon the evidence presented at the hearing, the hearing officer shall determine whether the decision by the Chief should be affirmed, modified or reversed.

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J. The hearing officer's decision and the reasons therefore shall be communicated in writing to the appellant within 10 working days after the close of the hearing. The decision shall also state that it is final and conclusive, that judicial review may be sought therefrom pursuant to Code of Civil Procedure Section 1094.5, and that any action filed in the superior court shall be filed within ninety days following the city manager's notice pursuant to Code of Civil Procedure Section 1094.6.

5.08.080 Notices.

All notices required to be given pursuant to this chapter shall be served on the responsible party (i.e., permittee, applicant or appellant) either by personal delivery or by deposit in the United States mail in a sealed envelope postage prepaid addressed to such responsible party as the name and address appear in the most recent application on file with the city. Service by mail shall be deemed to have been completed on the date deposited in the mail.

5.80.090 Fees.

The City Council may impose by resolution a nonrefundable fee to reimburse the city for its reasonable and necessary costs for providing the services under this chapter. This fee shall be in addition to the business license fees required by Title 5 of this Code.

5.80.100 Operational standards.

A medicinal cannabis delivery service business and its employees shall comply with the following requirements:

A. All applicable requirements of state law, including statutes and California Code of Regulations.

B. No markings or indications of medicinal cannabis shall be visible from the public right-of-way and/or exterior of the structure(s) associated with the medicinal cannabis delivery service business.

C. Odor control devices and techniques shall be incorporated and maintained to ensure that odors from the medicinal cannabis are not detectable off-site.

D. The original of the business permit issued by the city pursuant to this chapter, along with the medicinal cannabis delivery business's state cannabis license and city-issued business license, shall be readily available upon request by the Chief and not visible to the public.

E. Delivery drivers shall keep the original of the employee permit and identification card, along with a copy of the business permit, with them at all times while making deliveries.

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F. All records required to be kept by state law shall be made available to the Chief and must be produced no later than one business day after receipt of the City's request, unless otherwise stipulated by the City.

G. The business shall designate a security representative/liaison who can meet with the Chief regarding any security related measures and/or operational issues.

H. Signage shall be limited to the name of the business only and shall be in compliance with Chapter 18.58 of the City's sign code and shall contain no advertising of other companies, brands, goods, or services.

I. No medicinal cannabis products shall be visible from outside the non-storefront medicinal cannabis delivery services fixed location or delivery vehicles.

J. No visual display, signage, or condition on the exterior of the non-storefront medical cannabis delivery service fixed locations or delivery vehicles shall indicate the types of products being stored inside the fixed location or transported in the delivery vehicles.

K. All deliveries of medicinal cannabis must be to a customer's physical address and no delivery may be made to an address located on publicly owned land or any address on land or in a building leased by a public agency.

5.80.110 Violations, inspections, and enforcement.

A. Violations declared a public nuisance. Each and every violation of the provisions of this chapter is deemed unlawful and a public nuisance.

B. Each violation a separate offense. Each and every violation of this chapter shall constitute a separate violation, and the city may pursue any and all remedies and actions available under state and local law for any violations committed by a medicinal cannabis delivery service business, a business owner, a property owner, or any other persons related to or associated with any commercial cannabis activity, including suspension or revocation of any permit pursuant to this chapter. Additionally, as a nuisance per se, any violation of this chapter shall be subject to disgorgement and payment to the city of any monies unlawfully obtained, costs of abatement, costs of investigation, attorney fees, and any other relief or remedy available at law or in equity.

C. Remedies are cumulative and not exclusive. The remedies provided in this chapter or this code are not to be construed as exclusive remedies. The city is authorized to pursue any proceedings or remedies provided by law.

D. Business owner are responsible for violations. The business owner shall be responsible for all local and state law violations that occur in or about a physical address

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location, a medicinal cannabis delivery service vehicle, or related to delivery personnel, whether or not the violations occur within the presence of the business owner.

E. Inspections and enforcement.

1. The Chief, code enforcement officers, police officers, and the Los Angeles County Fire Department, are charged with enforcing the provisions of this code and shall be authorized to enter a medicinal cannabis delivery service business or a medicinal cannabis delivery service vehicle operating in the city at any time during the business's hours of operation with or without notice, subject to constitutional limitations, to do inspect the medicinal cannabis delivery service business and medicinal cannabis delivery service vehicle as well as any recordings and records required to be maintained pursuant to this chapter or under applicable provisions of state law.

2. It is unlawful for any person having responsibility over the operation of a medicinal cannabis delivery service business to impede, obstruct, interfere with, or otherwise not allow the city to conduct an inspection, review or copy records, recordings, or other documents required to be maintained by such business under this chapter or under state or local law. It is also unlawful for a person to conceal, destroy, deface, damage, or falsify any records, recordings, or other documents required to be maintained by a medicinal cannabis delivery service business under this chapter or under state or local law.

SECTION 5. Findings. In approving the changes to the Gardena Municipal Code set forth above, the City Council finds that adoption of this Ordinance is required for the public necessity, convenience, general welfare and good land use and zoning practices. The Industrial land use designation allows for a variety of clean and environmentally friendly industries. The industrial zone allows commercial, manufacturing and industrial uses conducted within enclosed buildings. The establishment of non-storefront cannabis delivery businesses is consistent with the General Plan and zoning.

SECTION 6. CEQA. Adoption of this Ordinance is exempt under the common sense exemption of CEQA Guidelines section 15061(b)(3) where it can be seen that the project will not have any possibility of creating significant effects on the environment. The ordinance does not authorize any development and is merely sets forth policy and procedures.

SECTION 7. Severability. If any section, subsection, subdivision, paragraph, sentence, clause or phrase of this ordinance, or any part thereof is for any reason held to be unconstitutional, such decision shall not affect the validity of the remaining portion of this ordinance or any part thereof. The City Council hereby declares that it would have passed each section, subsection, subdivision, paragraph, sentence, clause or phrase thereof, irrespective of the fact that any one or more section, subsection, subdivision, paragraph, sentence, clause or phrase be declared unconstitutional.

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SECTION 8. Effective Date. This Ordinance shall take effect on the thirty-first day after passage.

SECTION 9. Certification. The City Clerk shall certify the passage of this ordinance and shall cause the same to be entered in the book of original ordinances of said City; shall make a minute passage and adoption thereof in the records of the meeting at which time the same is passed and adopted; and shall, within fifteen (15) days after the passage and adoption thereof, cause the same to be published as required by law, in a publication of general circulation.

PASSED, APPROVED AND ADOPTED this 25th day of February, 2025.

TASHA CERDA, Mayor

ATTEST:

MINA SEMENZA, City Clerk

APPROVED AS TO FORM:

CARMEN VASQUEZ, City Attorney

City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 8.G
Section: CONSENT CALENDAR
Meeting Date: February 25, 2025

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: SECOND READING AND ADOPTION OF ORDINANCE NO. 1880 , Amending Sections 14.04.090 and 14.04.220 of Chapter 14.04 – Residential Rent Mediation and Hearings – of the Gardena Municipal Code relating to Notification of Rent Increases
CONTACT: CITY MANAGER

COUNCIL ACTION REQUIRED:

RECOMMENDATION AND STAFF SUMMARY:
Currently, the GMC states that a notice of rent increase greater than ten (10) percent requires a sixty-day notice. Per Assembly Bill (AB) 1110, a ninety-day notice is now required if the notice of rent increase is greater than ten (10) percent.

These changes are necessary to keep Gardena's Rent Mediation Ordinance consistent with Assembly Bill 1110 and Civil Code 827, which states "If the proposed rent increase for that tenant is greater than 10 percent of the rental amount charged to that tenant at any time during the 12 months before the effective date of the increase, either in and of itself or when combined with any other rent increases for the 12 months before the effective date of the increase, the notice shall be delivered at least 90 days before the effective date of the increase, and subject to Section 1013 of the Code of Civil Procedure if served by mail."

During the February 11, 2025, City Council meeting, Councilmember Mark Henderson introduced Ordinance No. 1880.

FINANCIAL IMPACT/COST:
N/A

ATTACHMENTS:
Ordinance No. 1880 - Rent mediation.pdf

APPROVED:

_____

Clint Osorio, City Manager

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ORDINANCE NO. 1880

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, AMENDING SECTIONS 14.04.090 and 14.04.220 OF THE GARDENA MUNICIPAL CODE RELATING TO NOTIFICATION OF RENT INCREASES

WHEREAS, Civil Code section 827 governs the amount of notice that must be given for changes in terms of a lease; and

WHEREAS, the City Council of Gardena wants to provide consistency between the California Civil Code and the notice required under Chapter 14.04, Residential Rent Mediation and Hearings, of the Gardena Municipal Code

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, DOES ORDAIN, AS FOLLOWS:

SECTION 1. Section 14.04.090.B of the Gardena Municipal Code is hereby amended to read as follows:

14.04.090 Notification of rent increases.

B. If the proposed rent increase is greater than the amount described in subsection A of this section, the owner shall provide written notice of the increase to tenants at least ~~sixty~~ ninety days prior to the effective date of the increase.

SECTION 2. Section 14.04.220 of the Gardena Municipal Code is amended to read, as follows:

14.04.220 Applicability.

The provisions of this chapter shall govern all disputes arising out of rent increases noticed on or after February 20, 1987. Rent increases for which notices were received on or after ~~February 20, 1987~~January 1, 2020, shall not take effect less than the sixty or ninety days after the date such notice is received by the affected tenant or tenants as specified in Section 14.04.090.

SECTION 3. CEQA Compliance. This Ordinance is exempt from CEQA under the following provisions of the CEQA Guideline Section 15061(c)(3) provides that a project is exempt from CEQA when it is covered by the general rule that CEQA only applies to projects which have the potential for causing a significant effect on the environment and does not apply where it can be seen with certainty that there is no possibility of a significant effect. It is clear that the changes set forth in this Ordinance will not create any significant impacts. Staff is directed to file a notice of exemption.

SECTION 4. Severability. If any section, subsection, subdivision, paragraph, sentence, clause or phrase of this ordinance, or any part thereof is for any reason held to be unconstitutional, such decision shall not affect the validity of the remaining portion of this ordinance or any part thereof. The City Council hereby declares that it would have passed

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each section, subsection, subdivision, paragraph, sentence, clause or phrase thereof, irrespective of the fact that any one or more section, subsection, subdivision, paragraph, sentence, clause or phrase be declared unconstitutional.

SECTION 5. Certification. The City Clerk shall certify the passage of this ordinance and shall cause the same to be entered in the book of original ordinances of said City; shall make a minute passage and adoption thereof in the records of the meeting at which time the same is passed and adopted; and shall, within fifteen (15) days after the passage and adoption thereof, cause the same to be published as required by law, in a publication of general circulation.

SECTION 6. Effective Date. This ordinance shall become effective on the thirty-first day after adoption.

SECTION 7. Rent Mediation and Hearing Procedures Handbook. Staff is hereby directed to update the Rent Mediation and Hearing Procedures in accordance with this Ordinance.

Passed, approved, and adopted this ____ day of _____, 2025.

_____
TASHA CERDA, Mayor

ATTEST:

_____
MINA SEMENZA, City Clerk

APPROVED AS TO FORM:

_____
CARMEN VASQUEZ, City Attorney

NOTICE OF CANCELLATION

City of Gardena

Planning & Environmental Quality Commission

Notice is hereby given that the regular meeting of the Planning & Environmental Quality Commission scheduled for February 18, 2025 **has been canceled.**

The next regularly scheduled meeting will be held on March 4, 2025, at 7 p.m.

Dated this 13th day of February 2025

/s/ MINA SEMENZA
City Clerk

City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 13.A
Section: DEPARTMENTAL ITEMS - COMMUNITY DEVELOPMENT
Meeting Date: February 25, 2025

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: PUBLIC HEARING: RESOLUTION NO. 6693 , Certifying an Environmental Impact Report, adopting a Mitigation Monitoring and Reporting Program, adopting a Statement of Overriding Considerations and making CEQA Findings Relating to the 1450 Artesia Specific Plan for the 6.3 acre Property located near the southwest corner of Artesia Boulevard and Normandie Avenue; and
PUBLIC HEARING: ORDINANCE NO. 1879 , Approving the 1450 Artesia Specific Plan and a Development Agreement to allow the redevelopment of the site with a mixed-use commercial/industrial development consisting of a 268,000 gross square foot building with an approximate height of 75 feet.
PROJECT LOCATION: 1440, 1450, 1462, 1472 Artesia Boulevard (APN: 6106-036-010, -012, -034, -035, -036, -037)
APPLICANT: 1450 Artesia Acquisition Company LLC (Representative: Brian Sorensen)

COUNCIL ACTION REQUIRED:

Staff respectfully recommends that after presentation by Staff and Environmental Consultant the City Council:

- **Open the public hearing;**
- **Hear the Applicant's presentation;**
- **Receive testimony from the public, allow three (3) minutes for each speaker;**
- **Allow the Applicant time to respond; and**
- **Close the public hearing.**

Planning Commission Recommendation for Motion:

- **Adopt Resolution No. 6693; and**
- **Introduce Ordinance No. 1879, relating to the 1450 Artesia Specific Plan Project.**

RECOMMENDATION AND STAFF SUMMARY:

In December of 2021 an application was filed to establish the 1450 Artesia Specific Plan to develop the property with a new 268,000 square foot commercial/industrial mixed-use building for self-storage, office and industrial uses, and to allow the site for outdoor community event space. As part of the project's analysis, the City, in collaboration with its environmental consultant, Dudek, prepared an Environmental Impact Report (EIR) to evaluate the project in compliance with the California Environmental Quality Act (CEQA).

On February 4, 2025, the Final EIR and the applicant's request for approval of the 1450

Artesia Specific Plan, including the site plan approval and Development Agreement, were presented to the Planning Commission for consideration and a recommendation to the City Council.

At the end of the hearing, the Planning Commission adopted two Resolutions recommending that the City Council certify the EIR and approve the requested entitlements for the project.

FINANCIAL IMPACT/COST:

The Applicant has prepared an economic analysis, outlining the overall benefits the project would bring to the City, which includes a monetary contribution of one million dollars to the City's General Fund.

ATTACHMENTS:

Staff Report
Attachment 1 - Planning Commission Staff Report dated February 4, 2025
Attachment 2 - Planning Commission Resolution No. 2-25 (EIR) without Exhibits
Attachment 3 - Planning Commission Resolution No. 3-25 (PROJECT) without Exhibits
Attachment 4 - Public Comments received for February 4, 2025 Public Hearing
Attachment 5 - Response to LAUSD Comment Letter
Attachment 6 - Economic Analysis
Resolution No. 6693 (EIR)
Exhibit A - Draft EIR, dated July 2024
Exhibit B - Final EIR, dated January 2025
Exhibit C - Mitigation Monitoring and Reporting Program
Exhibit D - Response to LAUSD Comment Letter
Ordinance No. 1879 (PROJECT)
Exhibit A - 1450 Artesia Specific Plan
Exhibit B - Project Plans
Exhibit C - Conditions of Approval
Exhibit D - Development Agreement

APPROVED:

_____
Clint Osorio, City Manager

City of Gardena
City Council Meeting

Agenda Item No.: 13.A
Department: Community Development
Meeting Date: February 25, 2025

AGENDA STAFF REPORT

AGENDA TITLE:

PUBLIC HEARING: RESOLUTION NO. 6693, Certifying an Environmental Impact Report, adopting a Mitigation Monitoring and Reporting Program, adopting a Statement of Overriding Considerations and making CEQA Findings Relating to the 1450 Artesia Specific Plan for the 6.3 acre Property located near the southwest corner of Artesia Boulevard and Normandie Avenue; and

PUBLIC HEARING: ORDINANCE NO. 1879, Approving the 1450 Artesia Specific Plan and a Development Agreement to allow the redevelopment of the site with a mixed-use commercial/industrial development consisting of a 268,000 gross square foot building with an approximate height of 75 feet.

PROJECT LOCATION: 1440, 1450, 1462, 1472 Artesia Boulevard (APN: 6106-036-010, -012, -034, -035, -036, -037)

APPLICANT: 1450 Artesia Acquisition Company LLC (Representative: Brian Sorensen)

RECOMMENDATION:

Staff respectfully recommends that after presentation by Staff and Environmental Consultant the City Council:

1) Open the public hearing;
2) Hear the Applicant's presentation;
3) Receive testimony from the public, allow three (3) minutes for each speaker;
4) Allow the Applicant time to respond; and
5) Close the public hearing.

Planning Commission Recommendation for Motions:

1) Adopt Resolution No. 6693; and
2) Introduce Ordinance No. 1879, relating to the 1450 Artesia Specific Plan Project.

BACKGROUND

In May of 2020, the Gardena City Council held a study session to hear from a development group known as Insite Property Group, on the potential development for a 6.33-acre site near the southwest corner of Artesia Blvd and Normandie Ave. At the meeting the developer discussed a conceptual proposal to redevelop the site into a new self-storage facility with office space and an outdoor community park. After hearing from the council and the community, the developer formally submitted a proposal in December of 2021 to establish the 1450 Artesia Specific Plan to develop the land with a new 268,000 square foot (-sf) commercial/industrial mixed-use building for self-storage, office and industrial uses, and to allow the site for outdoor community event space.

The subject site currently comprises six separate parcels with multiple addresses, with the main and largest parcel that includes existing structures, located at 1450 Artesia Blvd. The eastern portion of the property is commonly referred to as the Gardena Sumps. In the 1980s, the State's Department of Toxic Substances Control (DTSC) and the U.S. Environmental Protection Agency found hazardous materials on the Gardena Sumps, leading to several action orders. The area was then covered with geosynthetic liners, asphalt, and concrete, and the site was fenced, which remains its current state. The remainder of the project site is currently developed with several small businesses, including a Uhaul rental agency, a metal fabricating shop, a sandblasting and painting company and an auto repair shop.

In June 2022, the DTSC approved a Final Remedial Action Plan (RAP) and Remedial Design to ensure the proper management of the Gardena Sumps site is in compliance with state requirements. At that time, the property was owned by Atlantic Richfield Company (ARC), which was identified as the responsible party for carrying out the actions outlined in the RAP. Throughout the process, the developer collaborated closely with ARC and state agencies to support the potential future development of the site. The Final RAP specifies the excavation of contaminated soils and the necessary actions ARC must take to remediate the Gardena Sumps site for commercial and industrial use standards.

In compliance with the California Environmental Quality Act (CEQA) for the project's development, the City initiated the process of preparing an Environmental Impact Report (EIR) by entering into a consultant agreement with Dudek, an environmental consulting firm. Dudek assisted with the preparation of the report and provided peer review of the studies submitted by the Applicant. Together with City staff, Dudek initiated the EIR process by first conducting an initial study, which allowed for a 30-day review period and included a public scoping meeting. Once the Draft EIR (DEIR) was completed, a Notice of Availability was prepared and the DEIR was circulated for a 45-day public review period, from August 1, 2024 through September 16, 2024. A Final EIR (FEIR) was prepared, incorporating responses to comments received during the public comment period and revisions made to the document. This version was then presented to the Planning Commission for consideration, along with the Applicant's requests for entitlements, on February 4, 2025.

Attached for the City Council's consideration is the staff report prepared for the Planning Commission, dated February 4, 2025, (**Attachment 1**), that provides further details relating to the proposed project. The 1450 Artesia Specific Plan also outlines the specific details regarding the intended uses, development standards, as well as the goals and policies for the area.

REQUESTED ENTITLEMENTS

The Applicant requests the following entitlements to establish the 1450 Artesia Specific Plan and the redevelopment of approximately 6.3 acres of land near the corner of Artesia Blvd and Normandie Ave:

1. **Specific Plan (SP #1-23):** Adoption of the 1450 Artesia Specific Plan to provide new zoning and development standards to allow the redevelopment of 6.3 acres with a mixed-use commercial/industrial development consisting of a 268,000 gross square foot (GSF) building with an approximate height of 75 feet. The project will feature self-storage (186,000 GSF, 1,480 units), industrial warehousing (72,000 GSF, 10 loading docks), and office/retail space (10,000 GSF mezzanine);
2. **Site Plan Review (SPR #5-21):** Approving the physical design of the development; and
3. **Development Agreement (DA #1-21):** Approving an agreement between the City and developer that guarantees the right to build the development as set forth in this Specific Plan for a period of 10 years and provides community benefits to the City including monetary contribution and space to hold community events.

Administrative Approval

1. **Lot Merger (LM #1-21):** To merge six lots into one single parcel for the site development.

PROJECT DESCRIPTION

The proposed project involves the demolition of all existing structures and the development of a new commercial/industrial mixed-use project. The project will include the following components:

- A 268,000-sf building with associated surface parking, landscaping, and circulation improvements.
- A three-level self-storage facility totaling 186,000-sf, with 1,480 storage units.
- An industrial warehouse with one level totaling 72,000-sf, including 10 loading docks.
- An office/retail space with a mezzanine totaling 10,000-sf.

Additional project improvements will include perimeter fencing, on-site and perimeter landscaping, lighting, exterior sidewalks, and two curb cuts along Artesia Boulevard, one for right-turn in and one for right-turn out driveways. The site will also feature 124 automobile parking spaces, including 5 accessible spaces, 6 electric vehicle (EV) charging stations, and 25 EV-ready spaces.

In addition, the Applicant proposes to allow the City to host special events on approximately 36,000-sf (0.8 acres) of the site, utilizing around 63 parking spaces. A storage building will be located along the eastern edge of the truck area for storing event furniture and equipment. Special events, such as food truck gatherings, farmers markets, car shows, and live entertainment, would be determined by the Recreation and Human Services Director. As previously, mentioned the developer initially considered developing a public park facility on the site over the Gardena Sumps, however, due to the remediation requirements by the State's Department and the site's unique location, the plan was later revised to accommodate outdoor City events instead.

PLANNING COMMISSION RECOMMENDATIONS

On February 4, 2025, the Planning Commission held a public hearing on the 1450 Artesia Blvd Specific Plan project and FEIR. The following resolutions were adopted by the Planning Commission by a 5-0 vote:

- Resolution No. PC 2-25 (**Attachment 2**), Recommending to the City Council to certify the FEIR and adopt a Mitigation Monitoring and Reporting Program, Findings Relating to Alternatives and Mitigation Measures, and a Statement of Overriding Considerations for purposes of the project; and

- Resolution No. PC 3-25 (**Attachment 3**), Recommending to the City Council to adopt Ordinance No. 1879 adopting the 1450 Artesia Blvd Specific Plan (SP# 1-23), Site Plan Review #5-21 and Development Agreement #1-21.

The Applicant's request involves legislative action and is therefore being presented to the City Council for adoption.

ENVIRONMENTAL CONSIDERATIONS

As previously noted, an Environmental Impact Report was prepared to assess the potential environmental impacts of the project in accordance with CEQA guidelines. The Draft EIR identified several areas of concern as significant but manageable, with mitigation measures included in the Mitigation Monitoring and Reporting Program (MMRP) to reduce these impacts to below a level of significance. The only impact that could not be mitigated to a less-than-significant level is construction noise, which remains unavoidable. However, efforts will be made to mitigate this impact as much as possible through specific measures during construction, as listed in the MMRP. Additional summary information on the EIR can be found in the staff report under Attachment 1.

DEVELOPMENT AGREEMENT

The Applicant's request includes a Development Agreement, which will secure the right to construct the development outlined in the Specific Plan for a period of 5 years, with the option for a 5-year extension at the request of either party. In exchange, the Applicant will provide benefits to the City, including granting exclusive access to a section of the parking for periodic City events and making a monetary contribution of one million dollars.

NOTICING/PUBLIC COMMENTS

The public hearing notice for the project was published in the Gardena Valley News and mailed via first-class mail to property owners and occupants within a 300-foot radius of the site, as well as to individuals who have previously submitted public comments or spoken at a public hearing, on February 13, 2025. A copy of Proof of Publication and Affidavit of Mailing are on file in the office of the Community Development Department, Room 101, City Hall, and are considered part of the administrative record.

During the Planning Commission meeting on February 4, 2025, three comments were received regarding the project, which are included in **Attachment 4**. Immediately prior to the Planning Commission meeting, a comment letter from the Los Angeles County Unified School District (LAUSD) was received. The comments raised concerns about the project's potential impact on nearby school facilities. During the public hearing, the City's environmental consultant addressed these concerns. Since the Planning Commission meeting, the City's consultant has prepared a formal response to the comments, which is included in **Attachment 5**, and made an exhibit to Resolution No. 6693.

CONCLUSION:

Staff respectfully recommends that the City Council open the public hearing, receive public testimony with each speaker allowed three (3) minutes, and then close the public hearing.

Following this, the City Council will consider the adoption of Resolution No. 6693 and introduction of Ordinance No. 1879, to approve the 1450 Artesia Specific Plan project.

FISCAL IMPACT:

The Applicant has prepared an economic analysis (**Attachment 6**), outlining the overall benefits the project would bring to the City, which includes a monetary contribution of one million dollars to the City's General Fund.

Submitted by: Amanda Acuna **Date:** 2/20/2025

ATTACHMENTS TO STAFF REPORT (hyperlinked)

1. **Planning Commission Staff Report dated February 4, 2025**
2. **Planning Commission Resolution No. PC 2-25 recommending certifying the EIR in accordance with CEQA, without Exhibits**
3. **Planning Commission Resolution No. PC 3-25 recommending adoption of the 1450 Artesia Specific Plan and Development Agreement, without Exhibits**
4. **Public Comments received for February 4, 2025 Public Hearing**
5. **Response to LAUSD Comment Letter**
6. **Economic Analysis**

RESOLUTION AND ORDINANCE FOR CONSIDERATION

RESOLUTION NO. 6693, Certifying an Environmental Impact Report, Adopting a Mitigation Monitoring and Reporting Program, Adopting a Statement of Overriding Considerations and making CEQA Findings Relating to the 1450 Artesia Specific Plan Project.

- Exhibit A – Draft EIR, dated July 2024
- Exhibit B – Final EIR, dated January 2025
- Exhibit C – Mitigation Monitoring and Reporting Program
- Exhibit D – Response to LAUSD Comment Letter

ORDINANCE NO. 1879: Adopting the Specific Plan and Approving the Development Agreement Relating to the 1450 Artesia Specific Plan Project.

- Exhibit A – 1450 Artesia Specific Plan
- Exhibit B – Project Plans
- Exhibit C – Conditions of Approval
- Exhibit D – Development Agreement

CITY OF GARDENA
PLANNING AND ENVIRONMENTAL QUALITY COMMISSION

STAFF REPORT
Environmental Assessment #9-21 (SCH 2023060263), Specific Plan #1-23, Site Plan Review #5-21, and Development Agreement #1-21
AGENDA ITEM #7.A

DATE: February 4, 2025

TO: Chair Henderson and Members of the Planning and Environmental Quality Commission

FROM: Greg Tsujiuchi, Director of Community Development

PREPARED BY: Amanda Acuna, Community Development Manager

APPLICANT: 1450 Artesia Acquisition Company LLC (Representative: Brian Sorensen)

LOCATION: 1440, 1450, 1462, 1472 Artesia Boulevard, (APN: 6106-036-010, -012, -034, -035, -036, -037)

REQUEST: The Applicant requests the following entitlements for the redevelopment of approximately 6.3 acres of land:

- **Specific Plan (SP #1-23):** Adoption of the 1450 Artesia Specific Plan to provide new zoning and development standards to allow the redevelopment of 6.3 acres with a mixed-use commercial/industrial development consisting of a 268,000 gross square foot (GSF) building with an approximate height of 75 feet. The project will feature self-storage (186,000 GSF, 1,480 units), industrial warehousing (72,000 GSF, 10 loading docks), and office/retail space (10,000 GSF mezzanine);
- **Site Plan Review (SP #5-21):** approving the physical design of the development;
- **Development Agreement (DA #1-21)**: between the City and developer that guarantees the right to build the development as set forth in this Specific Plan for a period of 10 years and provides community benefits to the City including monetary contribution and space to hold community events.

Administrative Approval

- **Lot Merger (LM #1-21):** to merge six lots into one single parcel for the site development.

Approval of these items requires certification of an Environmental Impact Report (EA # 9-21), adoption of a Mitigation Monitoring and Reporting Plan, and a Statement of Overriding Considerations.

BACKGROUND

Site History

In May of 2020, the Gardena City Council held a study session to hear from a development group known as Insite Property Group (the "Applicant"), on the potential development for a 6.33-acre site near the southwest corner of Artesia Blvd and Normandie Ave (Figure 1: Vicinity Map). At the meeting the developer discussed a conceptual proposal to redevelop the site into a new self-storage facility with office space and an outdoor community park. After hearing from the council and the community, the developer formally submitted a proposal in December of 2021 to establish the 1450 Artesia Specific Plan to develop the land with a new 268,000 square foot (-sf) commercial/industrial mixed use building for self-storage, office and industrial uses, and to allow the site for outdoor community event space.

The subject site currently comprises six separate parcels with multiple addresses, with the main and largest parcel that includes existing structures, located at 1450 Artesia Blvd. The eastern portion of the property is commonly referred to as the Gardena Sumps. The remainder of the site is currently developed with several small businesses, including a Uhaul rental agency, a metal fabricating shop, a sandblasting and painting company and an auto repair shop. The structures for the businesses were originally constructed between the 1920s to 1950s (see Figures 2.a-2.d). There is also an unoccupied residential building at the southwest corner of the site, originally built in 1963. The current conditions of the site also include the storage of several trailers and shipping containers, and parked commercial trucks.

The subject property was originally used for industrial purposes, including clay mining. Later multiple sumps on the property were constructed and used to collect waste materials like refinery byproducts and acids. These sumps are now known as the Cooper and Haack properties, and as indicated above, are commonly referred to as the Gardena Sumps. In the 1980s, the Department of Toxic Substances Control (then known as the Department of Health Services) and the U.S. Environmental Protection Agency identified the presence of hazardous materials on the site, resulting in the issuance of several action orders. Following these agency actions, the sumps were covered with geosynthetic liners, asphalt, and concrete, and the site was fenced.

Currently, multiple monitoring wells and a cap are located on the Gardena Sumps portion of the site as an engineering control, limiting redevelopment options. To facilitate the site's development, efforts have been ongoing between the Applicant and Atlantic Richfield Company (ARC), the responsible agency for the site's cleanup with the State's Department of Toxic Substances Control (DTSC) to prepare a Remedial Action Plan (RAP). This plan outlines the detailed steps and strategies required to address environmental contamination on the portion of the site that the Gardena Sumps covers.

On June 30, 2022 DTSC approved a Final RAP, outlining the excavation of contaminated soils, their relocation, and response actions that ARC must undertake to remediate the Gardena Sumps site to commercial/industrial use standards. Additionally, the RAP

Figure 1: Vicinity Map

included a legal land-use covenant that restricts future site usage to commercial and industrial purposes, as the site cannot be remediated to a level suitable for permanent residential use. The RAP specifies that remediation must be completed before project construction begins.

Additionally, over the years, the City's Code Enforcement Division has initiated several cases concerning the property due to violations of municipal and State health and safety codes. Since 2012, at least 22 cases have been opened, addressing issues such as zoning violations, operating without proper business permits, property maintenance problems like overgrown vegetation, and animal nuisances. In 2018, the Community Development Department issued a notice of violation citing numerous building and safety code violations, which resulted in some of the structures on the site ultimately being red tagged.

Zoning History

In 2006, the City updated the General Plan, changing the land use and zoning designation for properties along Artesia Boulevard between Normandie Ave and Western Ave from Industrial to General Commercial. Later that year, in July 2006, the City adopted the Artesia Corridor Specific Plan to encourage revitalization along this corridor, supporting a mix of residential and commercial uses. The project site was included within the Artesia Corridor Specific Plan, designated under Plan Areas 4 and 5, along the eastern end of the specific plan with a land use category of commercial and mixed-use (Figure 3: Artesia Corridor Specific Plan Land Use Map). Mixed use residential and commercial has been developed within parts of the Artesia Corridor. However, the project site was never developed per the Artesia Corridor Specific Plan. At no time was a viable commercial project brought forward for the property.

In 2023, the City Council adopted the 6th Cycle Housing Element and updated the Land Use Plan, which involved amending the General Plan, Zoning Code, and rescinding the Artesia Corridor Specific Plan. Despite this change, the project site retained its Specific Plan land use designation (Figure 4: Current Zoning Map). The new zoning, known as the 1450 Artesia Specific Plan, allows for both industrial and commercial development, pending the adoption of a specific plan to establish the development standards for the site.

The Applicant, in collaboration with City staff, has prepared the 1450 Artesia Specific Plan, which is now being presented for consideration. The City Council will make the final decision on its adoption. At this stage, the Planning Commission will be reviewing the plan and making a recommendation to the Council.

Figure 2: Existing Conditions

2.a – Exiting Warehouse structures

2.b – Back view of existing U-Haul office

2.c – Building at the south end of the property

2.d – View of front Buildings along Artesia Blvd

Figure 3: Artesia Corridor Specific Plan Land Use Map

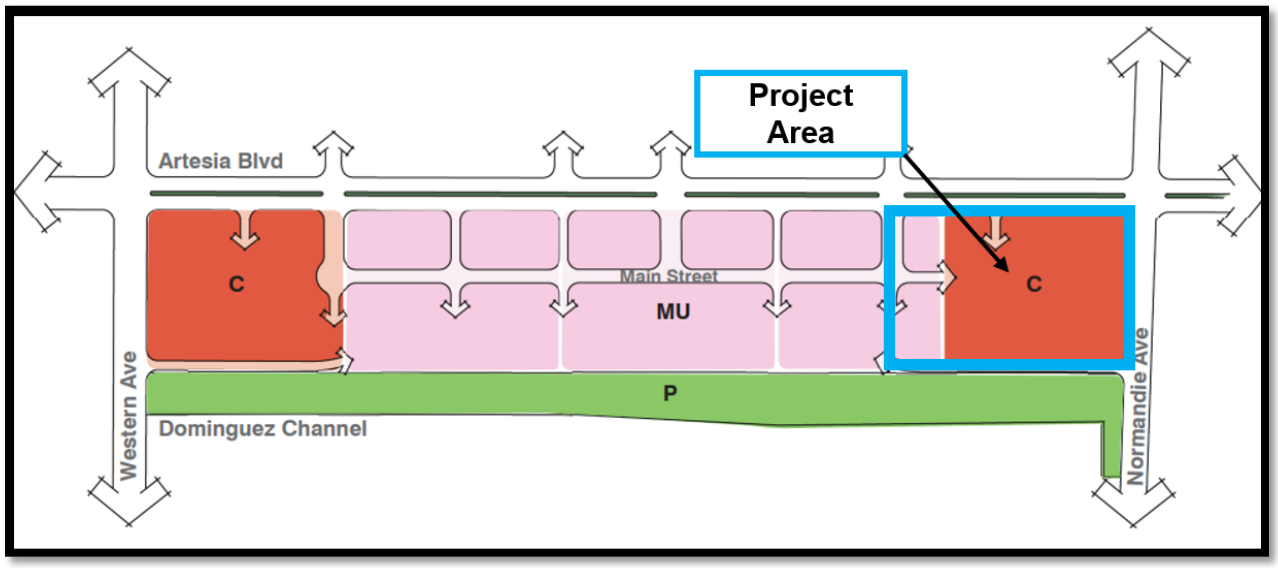
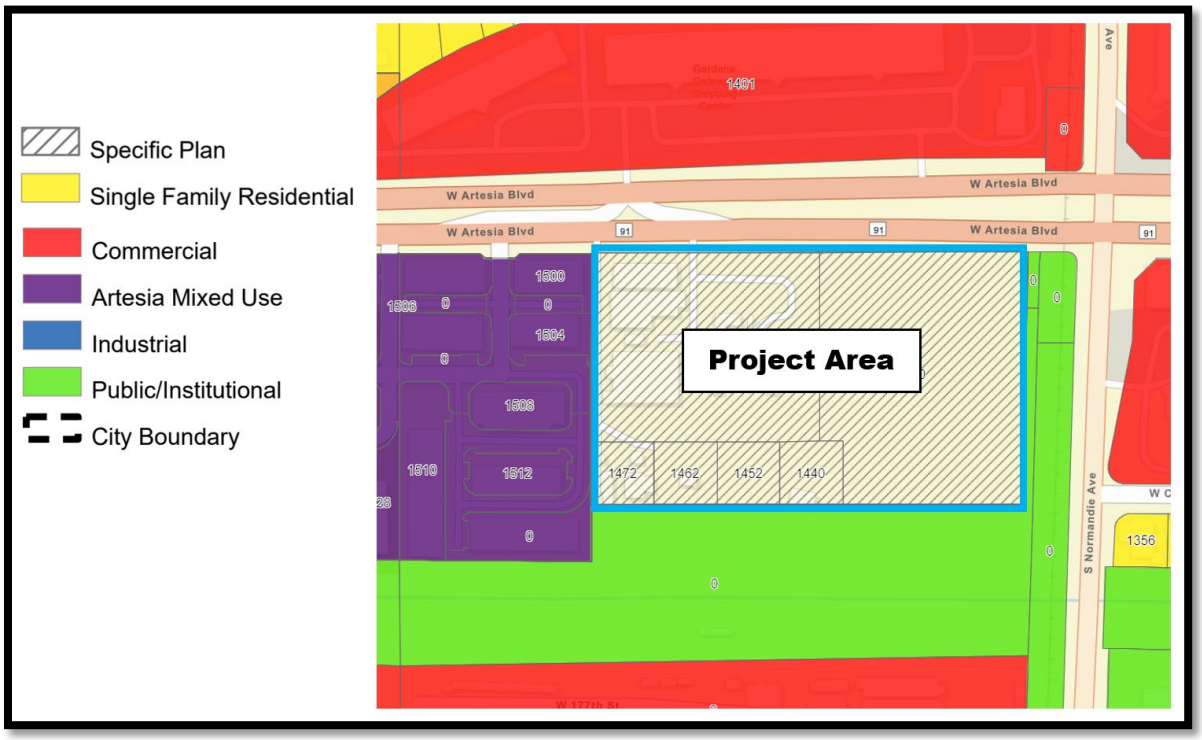


Figure 4: Current Zoning Map



PROJECT DESCRIPTION

The proposed project involves the demolition of all existing structures and the development of a new commercial/industrial mixed-use project, as shown in Figure 5: Site Plan. The project will include the following components:

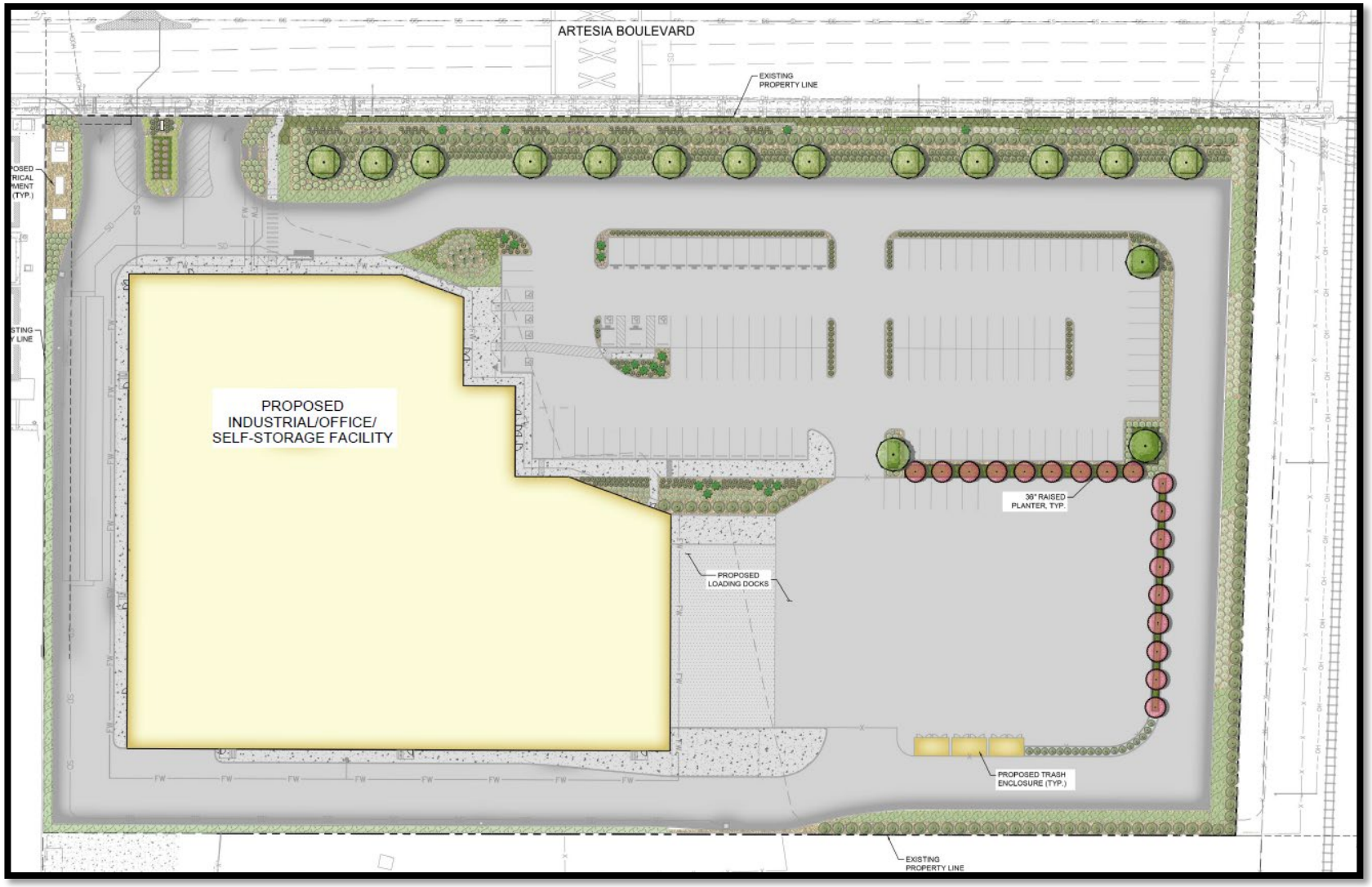
- A 268,000-sf building with associated surface parking, landscaping, and circulation improvements.
- A three-level self-storage facility totaling 186,000-sf, with 1,480 storage units.
- An industrial warehouse with one level totaling 72,000-sf, including 10 loading docks.
- An office/retail space with a mezzanine totaling 10,000-sf.

Additional project improvements will include perimeter fencing, on-site and perimeter landscaping, lighting, exterior sidewalks, and two curb cuts along Artesia Boulevard—one for right-turn in and one for right-turn out driveways. The site will also feature 124 automobile parking spaces, including 5 accessible spaces, 6 electric vehicle (EV) charging stations, and 25 EV-ready spaces.

In addition, the Applicant proposes to allow the City to host special events on approximately 36,000-sf (0.8 acres) of the site, utilizing around 63 parking spaces. A storage building will be located along the eastern edge of the truck area for storing event furniture and equipment. Special events, such as food truck gatherings, farmers markets, car shows, and live entertainment, would be determined by the Parks and Recreation Director. Initially, the Applicants considered developing a public park facility. However, due to the State's remediation requirements and the site's specific location, a public park was determined to be unsuitable. As a result, the developers have proposed a community space in place of the park.

The building and site design incorporates engineering controls outlined in the approved Final Remedial Action Plan (RAP) and Remedial Design to ensure the project site is safe for use and occupancy for its intended commercial and industrial purposes, while protecting human health and the environment.

Figure 5: Site Plan



[CLICK HERE to View Full Set of Project Plans]

PROJECT ENTITLEMENTS

As it currently sits, the project site does not have any zoning regulations that would apply to the site for new development since the rescinding of the Artesia Corridor Specific Plan. In order to allow for the proposed development, the Applicant is requesting the adoption of the 1450 Artesia Specific Plan that has been structured to the specific development design standards of the project. The following sections provide an overview of the all the various entitlements being requested. The Planning Commission is being asked for their recommendation on the following entitlements to the City Council:

- **Specific Plan (SP #1-23):** Redeveloping a mixed-use property with a 268,000 GSF building, including surface parking, landscaping, and circulation upgrades. The project will feature self-storage (186,000 GSF, 1,480 units), industrial warehousing (72,000 GSF, 10 loading docks), and office/retail space (10,000 GSF mezzanine);
- **Site Plan Review (SP #5-21):** approving the physical design of the development;
- **Development Agreement (DA #1-21)**: between the City and developer that guarantees the right to build the development as set forth in this Specific Plan for a period of 10 years and provides community benefits to the City including monetary contribution, and space to hold community events.

Administrative Approval

- **Lot Merger (LM #1-21):** to merge six lots into one single parcel for the site development.

In addition, as part of the project the City, through its environmental consultant, prepared an Environmental Impact Report (EIR) in compliance with the California Environmental Quality Act (CEQA), to evaluate the potential environmental impacts associated with the proposed project. The Planning Commission is being asked to consider a separate recommendation on the EIR, Mitigation Monitoring and Reporting Program, Findings and Statement of Overriding Considerations, that has been prepared by staff.

ANALYSIS

SECTION 1: SPECIFIC PLAN #1-23

The 1450 Artesia Specific Plan includes information for City staff, the community, and the Planning Commission on how the project site will be developed and how it is consistent with the City of Gardena General Plan. A Specific Plan is a regulatory document prepared pursuant to the provisions of California Government Code sections 65450 through 65457 and provides a framework for development of the project site, including permitted uses and development standards. Upon approval of the legislative actions, the Specific Plan will prevail over the City's Zoning Ordinance, establishing its own regulatory requirements. The following tables provide a summary of the development standards

proposed in the Specific Plan. Development standards not covered by the Specific Plan will be regulated by the Gardena Municipal Code.

Table 1 – Development Standards for 1450 Artesia Specific Plan

STANDARD	REQUIREMENT
Permitted Uses	- Warehouse and Distribution - Self-Storage - Ancillary sales - Commercial Office/ Retail (Max. 10,000-sf) - Special Events
Prohibited Uses	- Cold Storage - Fulfillment Center
Minimum Lot Size	6.33 acres
Maximum Building Height	75 feet
Maximum Floor Area Ratio	1.0
Setbacks	Front (Artesia Blvd): 86 feet Rear: 48 feet Side (Eastern): 300 feet Side (Western): 40 feet
Minimum Landscape	32,473-sf
Parking	Warehouse 1 / 1,000 SF Office / Retail (Mezzanine) 1 / 400 SF Self-Storage 1.65 / 100 Units
Parking Dimensions	Standard: 9’ x 18’ *No compact spaces*

DU= Dwelling Units AC= Acres -sf= Square feet

A. SETBACKS

In accordance with the 1450 Specific Plan, no buildings or structures are permitted within the designated building setbacks. The property's frontage along Artesia Blvd is set back by at least 86 feet, which includes a 30-foot landscaping area spanning the entire frontage, excluding the two driveway access points. Within the overall project area, the Specific Plan requires the proposed structure to maintain setbacks of 86 feet from the front property line along Artesia Blvd, 48 feet from the rear property line, 300 feet from the eastern property line (which will primarily be used for parking), and a 40-foot setback from the western property boundary.

B. HEIGHT

The specific plan calls for the buildings not to exceed a maximum of 75 feet in height as measured from the finished floor (i.e., the level of the finished floor on the ground level) to the highest point on the roof, including non-occupiable projections (including, without

limitation, architectural features, elevator shafts mechanical equipment, stairwells, canopies, or shade structures).

C. LIGHTING AND SIGNAGE

All the lighting fixtures within the development have been designed and positioned to prevent light spillovers onto adjacent properties. Glaring or flashing lights are prohibited. Additionally, all exterior lighting fixtures will be architecturally consistent with the building's design. As part of the project conditions, the Applicant will be required to submit a lighting plan ensuring an average of 2-foot candles of light, with a minimum of 1-foot candle for all public and common areas.

The 1450 Artesia Blvd Specific Plan does not include specific provisions for signage on the property. Therefore, signage will be governed by the City's Municipal Code, specifically Chapter 18.58. As part of the project conditions, the Applicant will be required to submit a master sign program, including identification and wayfinding signage throughout the Specific Plan Area, to the Community Development Director for review and approval.

D. ACCESS/PARKING/CIRCULATION

Parking for the project will be located along the northeastern portion of the site. The plan includes 124 automobile parking spaces and 10 dock doors within the building, with additional space available for truck parking and staging within the secured truck parking area. No parking will be permitted around the perimeter access loop.

The 1450 Artesia Specific Plan establishes the following minimum parking requirements for industrial and accessory uses:

- Warehousing areas: One parking space per 1,000 square feet
- Office areas: One parking space per 400 square feet of gross leasable space (GLA)
- Self-storage buildings: 1.65 vehicles per 100 storage units

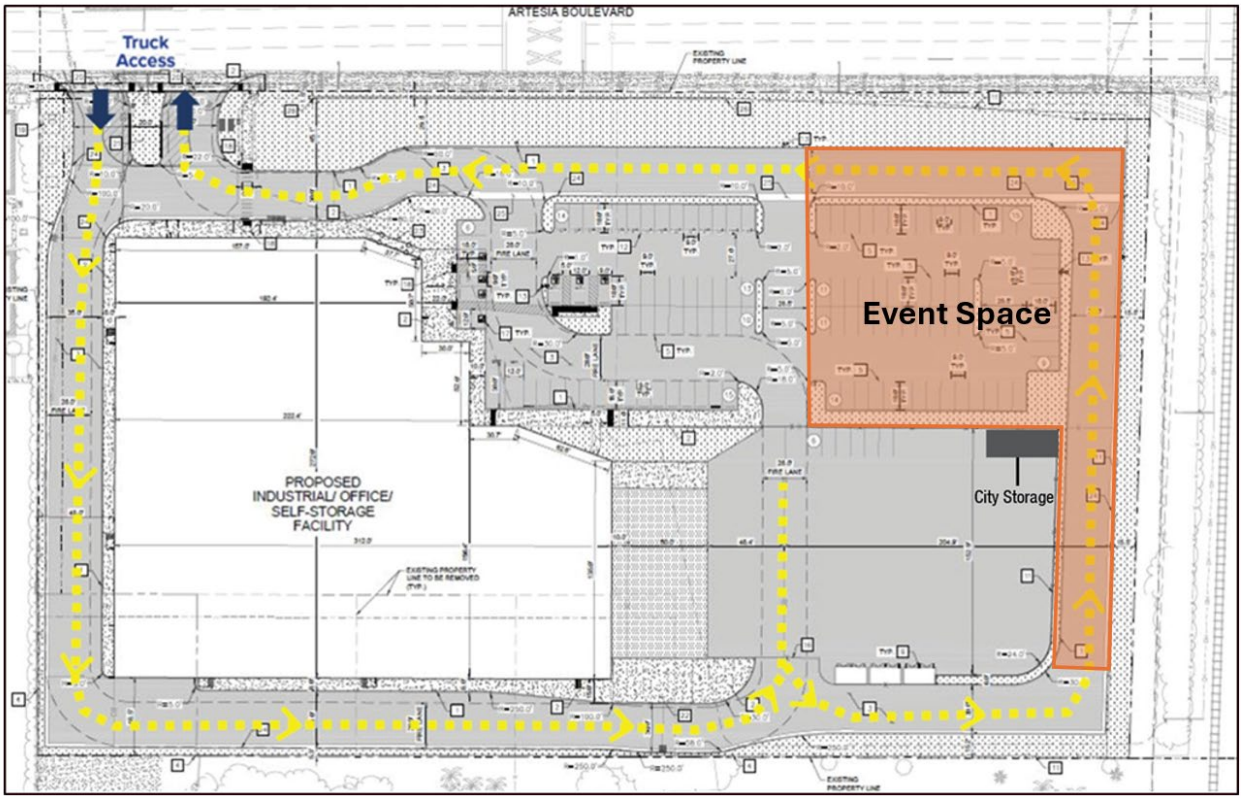
Additionally, the project will comply with the California Green Building Standards Code (CALGreen), which includes requirements for bicycle parking, designated parking for clean air vehicles, EV charging stations, and other parking-related standards specified by CALGreen.

Truck Access and Circulation

The proposed building will feature up to 10 dock doors, positioned to face east, away from residential areas. Truck access will be designed similarly to vehicle access, with entry at the northwest corner of the site. Trucks will circulate along the western and southern edges of the property, reaching the loading docks. After loading, trucks will exit the dock area, traveling north through the parking lot and egressing via the northwest corner of the

site. This truck circulation plan is designed as a loop around the building to facilitate smooth onsite traffic flow (see Figure 6: Circulation Plan - Truck Access)

Figure 6: Circulation Plan - Truck Access



E. CITY EVENTS/STORAGE

To support occasional City events held at the site, the specific plan includes the construction of a City storage building. This building will be made of CMU blocks, built on a slab-on-grade foundation, and equipped with a steel door and LED motion sensor lights inside. The design of the storage building will complement the overall project and will be submitted to the Director of Community Development for review and approval.

During special events, parking will be restricted to the designated Special Event Area, as shown in Figure 6. During these City special events, trucks must exit the loading area in the same direction they entered and are prohibited from driving along the eastern and northeastern sides of the property. To enforce this, the City will install a temporary physical barrier along the eastern and northern boundaries to prevent traffic flow in these areas. Additionally, the City may install temporary barriers to block access to drive aisles near the event, as long as access to parking for self-storage remains available.

SECTION 2: SITE PLAN REVIEW #5-21

Normally the Planning Commission approves the site plan, subject only to a call for review or an appeal to the City Council. However, in this case the Specific Plan and its regulations have been tailored around the specific site plan that is being proposed and the site plan is embedded within the Specific Plan. Therefore, the City Council will consider the approval of the Site Plan Review along with the Specific Plan, with a recommendation from the Planning Commission. Site plan review approval requires the following findings to be made after considering all of the various factors relating to the site plan:

1. *The physical location, size, massing, setbacks, pedestrian orientation, and placement of proposed structures on the site and the location of proposed uses within the project are consistent with applicable standards;*

The project is consistent with the applicable standards as the standards are set forth in the 1450 Artesia Specific Plan and the Project implements this Plan.

2. *The development is consistent with the intent and general purpose of the general plan and provisions of this code;*

The Land Use Designation for the Property is Specific Plan and the zoning is 1450 Artesia Specific Plan. As the development implements the Specific Plan, it is consistent with both the General Plan land use designation and the zoning. Additionally, the development implements numerous other goals and policies of the Specific Plan as outlined therein.

3. *The health and safety services (police and fire) and public infrastructure are sufficient to accommodate the new development;*

The development has been reviewed by the Gardena Police Department and the Los Angeles County Fire Department. Neither Department has raised any issues regarding the ability to provide services. Additionally, the project has received will serve letters from the various utilities.

4. *The project is compatible with the surrounding sites and neighborhoods; and*

The Specific Plan allows for the development of up to 268,000 square feet (SF) and an approximate height of 75 feet. The Project is designed to be compatible with adjacent and anticipated land uses and to redevelop parcels that are underutilized due to impacts from former releases of hazardous substances and waste. The Specific Plan regulates project buildout in a manner that is consistent with applicable State law.

5. *The project has been determined to be exempt from the California Environmental Quality Act or the appropriate environmental document has been completed and required findings have been made.*

An EIR was prepared by the City's environmental consultants in compliance with the California Environmental Quality Act. This EIR evaluated the potential environmental impacts associated with planning, constructing, and operating the proposed 1450 Artesia Blvd Specific Plan project. The findings within the EIR are discussed below.

SECTION 3: LOT MERGER

As previously mentioned, the project site comprises six parcels. The two larger lots, approximately 2.5 and 3 acres each, are situated to the north and have public right-of-way access via Artesia Blvd. The smaller lots, each around 10,000-sf (0.23 acres), are located at the southwest corner of the site and lack direct public right-of-way access. These smaller lots were previously home to multiple residential structures, most of which have been demolished due to health and safety concerns. One structure still stands, but it is currently unoccupied.

When the Applicant acquired all six parcels, the intent was to develop the entire site as a single project. As a result, the Applicant has requested to formally merge the lots.

According to the Subdivision Map Act (SMA), Section 66451, local agencies can merge sub-standard lots. The merger of adjacent lots is typically managed through a lot merger process, and in cases involving multiple properties like this one, it is standard practice to prepare a parcel map to formally merge the lots. This will streamline the process, simplify the legal description, and ensure proper monumentation of the property. As a condition of approval, the Applicant will be required to submit a parcel map prepared by a qualified California civil engineer or licensed surveyor, in compliance with the SMA and Title 17 of the Gardena Municipal Code.

SECTION 4: DEVELOPMENT AGREEMENT

To strengthen the public planning process, encourage private participation in comprehensive planning, and reduce the economic risk of development, the Legislature of the State of California adopted the Development Agreement Statutes which authorizes the City to enter into binding agreements with persons having a legal or equitable interest in real property, to provide for the development of such property and to vest certain development rights therein. In exchange, the City may obtain benefits that it would not otherwise be able to get.

Development Agreement #1-21, is an agreement between the City and developer that guarantees the right to build the development as set forth in the Specific Plan for a period of 5 years with one 5-year extension available at the request of either party. In return, the Applicant has to provide benefits to the City in the way of allowing exclusive access to a portion of the parking for periodic City events and providing a monetary contribution of one million dollars. The City currently does not have any relevant development impact fees when it comes to commercial or industrial projects such as this one. Therefore, the Applicant's monetary contribution would be additional revenue to the City. Additionally, the City will receive the benefit of, a local hiring/local buying program for construction.

ENVIRONMENTAL CONSIDERATIONS

An EIR is generally prepared for projects where there is a fair argument that there may be a significant impact on the environment, and the impacts may not be mitigated below a level of significance. EIRs are generally used for larger and more complex projects.

In November 2021, the City entered into a consultant agreement with Dudek to prepare the required EIR and to provide peer review of Applicant provided studies.

The EIR process starts with the preparation of an Initial Study and then a Notice of Preparation during which there is a 30-day review period for people and public agencies to comment on what should be studied in the document. There is also a public scoping meeting during this time. The Notice of Preparation public review period for this period ran from June 8, 2023 through July 10, 2023. On June 22, 2023, the City held a scoping meeting on the project.

Once the Draft EIR (DEIR) is completed, a Notice of Availability is prepared and the DEIR is circulated for a 30 or 45-day public review period. The DEIR was made available for a 45-day public review period from August 1, 2024 through September 16, 2024.

Prior to the release of the DEIR and in accordance with SB 18 and AB 52, the City sent notices to the list of Native American Tribes provided by the Native American Heritage Council. Only one tribe requested consultation: the Gabrieleno Band of Mission Indians – Kizh Nation. The City engaged in consultation and mitigation measures have been included in the EIR as a result of the consultation.

The Draft EIR identified the below topic areas as significant, but able to be mitigated below a level of significance:

- Air Quality relating to exposing sensitive receptors to substantial pollutant concentrations. This will be mitigated below a level of significance by Mitigation Measure (MM) – AQ-1 requiring clean construction equipment, MM-AQ-2 requiring electric cargo handling equipment, and MM-GHG-1 establishing on-site solar power.
- Cultural Resources relating to causing a substantial adverse change in the significance of an archeological resource. This impact will be mitigated below a level of significance by MM-CUL-1 which requires a Workers Environmental Awareness Program, MM-CUL-2 which requires the retention of an on-call qualified archaeologist if there is an inadvertent discovery, and MM-CUL-3 which requires a work stoppage within 100 feet of the find.
- Geology and Soils relating to destroying a unique paleontological resource or geologic feature. This impact will be mitigated below a level of significance by MM-GEO-1 which requires steps to be taken in case of an inadvertent discovery of a resource.

- Greenhouse Gas Emissions relating to generating greenhouse gas emissions or conflicting with a plan, policy, or regulation to reduce the emissions. These impacts will be mitigated below a level of significance by both the project design features (PDF) of the project being designed to be all-electric and MM-GHG-1 establishing on-site solar power and MM-AQ-2 requiring electric cargo handling equipment.
- Hazards and Hazardous Materials relating to: the routine transport, use, or disposal of material; the release of hazardous materials into the environment or within ¼ mile of a school, and being included on a list of hazardous material sites. These impacts will be mitigated by which will be mitigated by PDF-HAZ-1 implementing the final Remedial Action Plan (RAP) approved by DTSC, MM-HAZ-1 relating to pre-demolition hazardous materials abatement, andMM-HAZ-2 requiring a soil management plan, and PDF-HAZ-2 installing a vapor intrusion barrier. It is specifically recognized that *include info on being on a hazardous site, the RAP, etc.*
- Noise relating to: City-sponsored special events which will be mitigated by MM-NOI-2 which requires the City to follow certain requirements relating to time of events and amplification; and excessive groundborne vibration or noise levels which will be mitigated by MM-NOI-3 requiring a construction vibration management plan.
- Tribal Cultural Resource relating to a change in the significance of a TCR as defined in Public Resources Code section 5024.1 which will be mitigated by: MM-TCR-1 requiring Native American monitoring; MM-TCR-2 implementing steps if there is an unanticipated discovery of tribal cultural resource objects; MM-TCR-3 and MM-TCR-4 implementing steps if there is an unanticipated discovery of human remains and funerary objects. The Cultural Resources measures will also mitigate this impact.

The only impact which could not be mitigated below a level of significance and is unavoidable is construction noise. This impact will be mitigated to the extent possible by the imposition of MM-NOI-1 which requires installation of a sound barrier along the western project boundary.

In accordance with CEQA, the EIR examined three alternatives to the project in addition to the required “no project” alternative. The Alternatives are discussed in detail in Chapter 5 of the EIR. The purpose of looking at alternatives is to try and avoid or substantially lessen any of the significant effects of the project while still attaining most of the basic objectives. The alternatives studied were:

- “No Project” Alternative;
- “Reduced Density” Alternative;
- “Self-Storage Only” Alternative; and
- “Truck-Storage Lot” Alternative.

The No Project Alternative would retain the project site in its current condition with decades-old buildings on site which do not conform to current development standards. This alternative does not implement any of the project’s improvements and would not meet any of the project’s objectives. Because the Remedial Action Plan to clean-up the

site would still go forward, two structures would still have to be demolished. No City-sponsored special events would occur. The Reduced Density Alternative would reduce the development footprint by 50 percent. City-sponsored special events would still occur. This Alternative would meet the objectives of the project, but not to the same degree; it would not eliminate the significant and unavoidable construction noise impact.

The Self-Storage Only Alternative would have the same footprint, with less space for office uses. City-sponsored special events would still occur. This Alternative would meet the objectives of the project, but not to the same degree; it would not eliminate the significant and unavoidable construction noise impact. The Truck-Storage Lot Alternative would replace the building with a truck parking and storage lot. No City-sponsored special events would occur. This alternative would meet some, but not all, of the project objectives but would not eliminate the significant and unavoidable construction noise impact.

When a project has a significant impact which cannot be mitigated, the decision-making body is required to balance the economic, legal, social, technological, or other benefits of a project against the unavoidable impacts in determining whether to approve the project. This is accomplished by the adoption of a Statement of Overriding Considerations. In the present case, the project has a number of benefits, including: revitalization of a site with dilapidated structures, providing a one-time monetary contribution to the City of one million dollars, agreeing to use best efforts to hire locally-based construction workers and use materials from local sources, providing the City with a space of approximately 36,000 square feet to host special events up to 36 times per year on the weekends, and constructing a 200 square foot storage building for the City to use for items related to the special events. Additionally, the project would generate revenue for the City through construction, operations, and tax benefits, as demonstrated by the economic analysis prepared by the Applicant (see Attachment C).

Once the public review period has closed, a Final EIR (FEIR) is prepared. The FEIR is required to include, among other things, all written comments received on the DEIR, responses to comments, and revisions necessitated due to the comments. The City received and reviewed comments on the DEIR and prepared responses to those comments which are incorporated into the FEIR. The Final EIR consists of the Draft EIR and all Appendices thereto and that separate document, incorporating the written comments and responses thereto, as well as the changes to the DEIR.

NOTICING

The public hearing notice for the project was published in the Gardena Valley News and mailed first class to owners and occupants within a 300-foot radius of the site on January 9, 2025. A copy of Proof of Publication and Affidavit of Mailing are on file in the office of the Community Development Department, Room 101, City Hall, and are considered part of the administrative record.

In addition, the Applicant held a community meeting on May 20, 2024, to provide the community an opportunity to further comment on the project.

RECOMMENDATION

Staff recommends the Planning and Environmental Quality Commission to:

1) Conduct the public hearing;
2) Receive testimony from the public;
3) Adopt Resolution No. PC 2-25 recommending to the City Council to certify the FEIR and adopt a Mitigation Monitoring and Reporting Program, Findings Relating to Alternatives and Mitigation Measures, and a Statement of Overriding Considerations for purposes of the project; and
4) Adopt Resolution No. PC 3-25 recommending to the City Council to Recommend to the City Council to adopt Ordinance No. 1879 adopting the 1450 Artesia Blvd Spceific Plan (SP# 1-23), Site Plan Review #5-21 and Development Agreement #1-21.

ATTACHMENTS – Hyperlinked

A - Resolution No. PC 2-25

- Draft City Council Resolution No. 6693
  - Exhibit A – Draft EIR, dated July 2024
  - Exhibit B – Final EIR, dated January 2025
  - Exhibit C – Mitigation Monitoring and Reporting Program

B - Resolution No. PC 3-25

- Draft City Council Ordinance No. 1879
  - Exhibit A – 1450 Artesia Specific Plan
  - Exhibit B – Project Plans
  - Exhibit C – Conditions of Approval
  - Exhibit D – Development Agreement

C – Economic Analysis

RESOLUTION NO. PC 2-25

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF GARDENA, CALIFORNIA RECOMMENDING THE CITY COUNCIL CERTIFY AN ENVIRONMENTAL IMPACT REPORT, ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM, ADOPTING A STATEMENT OF OVERRIDING CONSIDERATIONS AND MAKING CEQA FINDINGS RELATING TO THE 1450 ARTESIA SPECIFIC PLAN FOR THE 6.33 ACRE PROPERTY LOCATED NEAR THE SOUTHWEST CORNER OF ARTESIA BOULEVARD AND NORMANDIE AVENUE

WHEREAS, On May 11, 2021 an application was received from Brian Sorensen on behalf of Insite Property Group LLC to develop a building consisting of warehouse and self-storage uses on property located on a 6.33 acre site near the southwest corner of Artesia Boulevard and Normandie Avenue and consisting of APNs 6106-036-010, -012, -034, -035, -036, and -037 (the "Project Site"); and

WHEREAS, The eastern portion of the Project Site is known as the Gardena Sumps; and

WHEREAS, On June 17, 2022 the Department of Toxic Substances Control approved a Remedial Action Plan ("RAP") for the former owner of the Gardena Sumps to remediate the property; and

WHEREAS, The development, as analyzed, consists of 268,000 square foot building consisting of 186,000 gross square feet of self-storage units, 72,000 gross square feet of industrial warehouse/distribution use, and a 10,000 square foot office/retail area (the "Project"); and

WHEREAS, on February 4, 2025, the Planning Commission of the City of Gardena held a duly, noticed public hearing on the Project, at which time it considered all evidence presented, both written and oral.

NOW, THEREFORE, THE PLANNING COMMISSION OF THE CITY OF GARDENA DOES HEREBY RESOLVE AS FOLLOWS:

SECTION 1.

The Planning Commission hereby recommend to the City Council to certify the Final Environmental Impact Report (FEIR) dated July 2024 and adopt a Mitigation

Monitoring and Reporting Program, make CEQA Findings Relating to Alternatives and Mitigation Measures, and adopt a Statement of Overriding Considerations for purposes of the Project. For all the reasons set forth in the Draft City Council Resolution attached as Exhibit 1, the Planning Commission believes that these changes represent good land use practices which are required by public necessity, convenience, and the general welfare.

PASSED, APPROVED, AND ADOPTED this 4th day of February 2024.

DERYL HENDERSON, CHAIR
PLANNING AND ENVIRONMENTAL
QUALITY COMMISSION

ATTEST:

GREG TSUJIUCHI, SECRETARY
PLANNING AND ENVIRONMENTAL QUALITY COMMISSION
STATE OF CALIFORNIA
COUNTY OF LOS ANGELES
CITY OF GARDENA

I, Greg Tsujiuchi, Planning and Environmental Quality Commission Secretary of the City of Gardena, do hereby certify that the foregoing Resolution was duly adopted by the Planning and Environmental Quality Commission of the City of Gardena at a regular meeting thereof, held on the 4th day of February, 2025, by the following vote:

AYES: Wright-Scherr, Langley, Sherman, Kanhan and Henderson
NOES: None
ABSENT: None

- Exhibit 1 – City Council CEQA Resolution No. 6693
  - Exhibit A – Draft EIR, dated July 2024
  - Exhibit B – Final EIR, dated January 2025
  - Exhibit C – Mitigation Monitoring and Reporting Program

Resolution No. PC 3-25

A RESOLUTION AN THE PLANNING COMMISSION OF THE CITY OF GARDENA, CALIFORNIA RECOMMENDING THE CITY COUNCIL ADOPT AN ORDINANCE APPROVING THE 1450 SPECIFIC PLAN AND A DEVELOPMENT AGREEMENT FOR THE 6.33 ACRE PROPERTY LOCATED NEAR THE SOUTHWEST CORNER OF ARTESIA BOULEVARD AND NORMANDIE AVENUE

(APNS 6106-036-010, -012, -034, -035, -036, -037)

WHEREAS, on May 11, 2021 an application was received from Brian Sorensen on behalf of Insite Property Group LLC to develop a building consisting of warehouse and self-storage uses on property located on a 6.33 acre site near the southwest corner of Artesia Boulevard and Normandie Avenue and consisting of APNs 6106-036-010, -012, -034, -035, -036, and -037 (the "Project Site"); and

WHEREAS, the eastern portion of the Project Site is a contaminated site known as the Gardena Sumps; and

WHEREAS, on June 17, 2022 the Department of Toxic Substances Control approved a Remedial Action Plan ("RAP") for the former owner of the Gardena Sumps to remediate the property; and

WHEREAS, August 27, 2021, the City entered into a consulting agreement with Dudek to prepare an Environmental Impact Report (EIR) for the Project; and

WHEREAS, on February 28, 2023, the City Council adopted ordinance No. 1848 which rezoned the Project Site to 1450 Artesia Specific Plan and added section 18.08.015 to the Gardena Municipal Code providing that no development could occur in the 1450 Artesia Specific Plan zone until a specific plan was adopted; and

WHEREAS, the development, as analyzed, consists of 268,000 square foot building consisting of 186,000 gross square feet of self-storage units, 72,000 gross square feet of industrial warehouse/distribution use, and a 10,000 square foot office/retail area (the "Project"); and

WHEREAS, on February 4, 2025, the Planning Commission of the City of Gardena, California held a duly noticed hearing on this Project at which time it considered all evidence presented, both written and oral; and

NOW, THEREFORE, THE PLANNING COMMISSION OF THE CITY OF GARDENA DOES HEREBY ORDAIN AS FOLLOWS:

SECTION 1.

The Planning Commission hereby recommends that the City Council approve 1 Specific Plan #1-23, Site Plan Review #5-21, and Development Agreement #1-21. For all the reasons set forth in the Draft City Council Ordinance attached as Exhibit 1, the Planning Commission believes that these changes represent good land use practices which are required by public necessity, convenience, and the general welfare.

PASSED, APPROVED, AND ADOPTED this 4th day of February 2025.

DERYL HENDERSON, CHAIR
PLANNING AND ENVIRONMENTAL
QUALITY COMMISSION

ATTEST:

GREG TSUJIUCHI, SECRETARY
PLANNING AND ENVIRONMENTAL QUALITY COMMISSION
STATE OF CALIFORNIA
COUNTY OF LOS ANGELES
CITY OF GARDENA

I, Greg Tsujiuchi, Planning and Environmental Quality Commission Secretary of the City of Gardena, do hereby certify that the foregoing Resolution was duly adopted by the Planning and Environmental Quality Commission of the City of Gardena at a regular meeting thereof, held on the 4th day of February, 2025, by the following vote:

AYES: Wright-Scherr, Langley, Sherman, Kanhan and Henderson
NOES: None
ABSENT: None

Exhibit 1 – Draft City Council Ordinance No. 1879

- Exhibit A – 1450 Artesia Specific Plan
- Exhibit B – Project Plans
- Exhibit C – Conditions of Approval
- Exhibit D – Development Agreement

Public Comment #1
Item 7.A
PEQC Meeting Date: February 4, 2025

From: Richard Drury
To: City Clerk; Public Comment; Amanda Acuna
Subject: Comment on FEIR, 1450 Artesia Specific Plan (SCH No. 2023060263)
Date: Sunday, February 2, 2025 3:44:35 PM
Attachments: 2025.02.02.FEIR ComLtr-1450 Artesia.pdf-2.pdf

Caution! This message was sent from outside your organization.

Honorable Members of the Planning and Environmental Quality Commission,

This comment is submitted on behalf of the Supporters Alliance for Environmental Responsibility ("SAFER") regarding the Final Environmental Impact Report ("Final EIR") prepared for the 1450 Artesia Specific Plan Project (SCH No. 2023060263), which proposes the construction of a mixed-use commercial/industrial development with a total building area of 268,000 square feet, located at the corner of Artesia Boulevard and Normandie Avenue in the City of Gardena ("Project").

We have reviewed the Final EIR and believe that it adequately addresses all concerns raised by commenters, including SAFER, on the Draft EIR. We believe that the City has proposed adoption of feasible mitigation measures to address the Project's environmental impacts. Therefore, SAFER supports the Project and urges the City to approve the Project and certify the FEIR

--
Richard Drury
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www.lozeaudrury.com
brian@lozeaudrury.com

Via Email

February 2, 2025

Planning and Environmental
Quality Commission
City of Gardena
1700 West 162nd Street
Gardena, CA 90247
publiccomment@cityofgardena.org
cityclerk@cityofgardena.org

Amanda Acuna
Community Development Manager
City of Gardena
1700 West 162nd Street
Gardena, California 90247
aacuna@cityofgardena.org

Re: Comment on Final Environmental Impact Report, 1450 Artesia Specific Plan (SCH No. 2023060263)

Honorable Members of the Planning and Environmental Quality Commission,

This comment is submitted on behalf of the Supporters Alliance for Environmental Responsibility ("SAFER") regarding the Final Environmental Impact Report ("Final EIR") prepared for the 1450 Artesia Specific Plan Project (SCH No. 2023060263), which proposes the construction of a mixed-use commercial/industrial development with a total building area of 268,000 square feet, located at the corner of Artesia Boulevard and Normandie Avenue in the City of Gardena ("Project").

We have reviewed the Final EIR and believe that it adequately addresses all concerns raised by commenters, including SAFER, on the Draft EIR. We believe that the City has proposed adoption of feasible mitigation measures to address the Project's environmental impacts. Therefore, SAFER supports the Project and urges the City to approve the Project and certify the FEIR.

Sincerely,

Richard Drury
Lozeau Drury LLP

Public Comment #2
Item 7.A
PEQC Meeting Date: February 4, 2025

From: Fernandez, Bryan
To: Public Comment
Cc: Amanda Acuna; GODEK, GWENN (Contract Professional); Mitchell, Desilisa; Davies, Frank
Subject: PLANNING COMMISSION COMMENT Item 7.A
Date: Tuesday, February 4, 2025 11:27:33 AM
Attachments: LAUSD Comment Letter 1450 Artesia Specific Plan.pdf

Caution! This message was sent from outside your organization.

The District is submitting the attached comments regarding Item 7.A. in tonight's Planning and Environmental Quality public hearing agenda. The project site is north of several District properties including the Gardena Early Education Center, Gardena High School, and Sage Park Apartments.

Sincerely,

Bryan Ramos Fernandez, AICP
CEQA Project Manager
Contract Professional
Los Angeles Unified School District (LAUSD)
Office of Environmental Health and Safety (OEHS)
333 S Beaudry Ave., 21st Floor, Los Angeles, CA 90017
O: (213) 241-4210
cp-bryan.fernandez@lausd.net

Los Angeles Unified School District

Office of Environmental Health and Safety

ALBERTO M. CARVALHO
Superintendent

CARLOS A. TORRES
Director, Environmental Health and Safety

JENNIFER FLORES
Deputy Director, Environmental Health and Safety

February 4, 2025

Amanda Acuna
Long Beach Community Development Department
411 W Ocean Blvd., Fl 3
Long Beach, CA 90802

PROJECT: 1450 Artesia Specific Plan Draft Environmental Impact Report SCH # 2023060263

Presented below are comments submitted on behalf of the Los Angeles Unified School District (LA Unified or District) regarding the subject project located at 1450 Artesia Boulevard in the City of Gardena. LA Unified is concerned about the potential negative impacts of the project on our students, staff, and residents in the following schools and apartments on District-owned property and intended for District employees:

- Gardena Early Education Center, 1350 W. 177th Street, Gardena, Calif., 457 feet south of the Project site
- Gardena High School, 1301 W. 182nd Street, Gardena, Calif., 703 feet south of the Project site with **1,408** Grades 9-12 students
- Sage Park Apartments, 1310 177th Street, Gardena, Calif., 588 feet south of the Project site with **90** units.

The proposed Project would involve the construction and operation of a mixed-use development with a total building area of 268,000 square feet and an approximate height of 75 feet, including a self-storage use (three levels totaling 186,000 gross square feet [GSF] with 1,480 storage units over ground floor warehouse/distribution use and a 1,000-square-foot leasing office), a warehouse/distribution use (one level totaling 72,000 GSF with 10 loading docks), and an office/retail use (a mezzanine totaling 10,000 GSF). The Project's proposed 72,000 GSF of warehouse/distribution use includes 10,000 GSF of potential future square footage to account for the potential future acquisition of a 0.23-acre parcel currently occupied by a single residential dwelling unit. Additionally, proposed associated facilities and improvements include perimeter fencing, on-site and perimeter landscaping, lighting, exterior sidewalks, and pavement for on-site parking spaces. Under the Specific Plan, the parking lot area would be used periodically for City-sponsored outdoor events outside of the Project's warehouse/distribution component operating hours. The Project includes construction of a 200 GSF, non-habitable structure on the eastern side of the Project site for storage of special event-related materials by the City. The Applicant is coordinating with the Atlantic Richfield Company (ARC), which is a responsible party working under the direction of the California Department of Toxic Substances Control (DTSC) to implement a Remedial Action Plan (RAP) by installing an engineered cap, soil vapor probes, and associated infrastructure on part of the Project site before the Applicant commences construction of the proposed Project.

The District requests that our students be recognized as sensitive receptors and that the Project specifically address potential impacts. Based on the extent/location of the proposed development, it is our opinion that significant environmental impacts on the surrounding community may occur. Since the project may have

an environmental impact on LA Unified schools and housing site, recommended conditions designed to help reduce or eliminate potential impacts are included in this response.

Work with LA Unified

Project applicants should coordinate any construction activities with LA Unified to ensure safety of students and their families and minimize disruptions to school activities and access to campus. Effective strategies for avoiding significant impacts on school operations include:

- Completing construction activities such as demolition and excavation when the schools are not in session (summer and winter breaks, holidays, weekends, and after hours).
- Including school and District representatives to review construction management plans, construction outreach plans, and participation in weekly construction meetings.
- Obtaining prior authorization from the District for any easements and project activities on surrounding District properties.
- Working with the District in identifying appropriate construction mitigation programs.

Air Quality

District students, school staff, and residents should be considered sensitive receptors to air pollution impacts. To ensure that effective measures are applied to further reduce construction air pollutant impacts, we ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- Implement all applicable provisions of Rule 403 for fugitive dust control during construction of the Project.
- Utilize low emission "clean diesel" equipment with new or modified engines manufactured to meet Tier 4 specifications or retrofitted to comply with CARB's verified diesel emission control strategy (VDECS).
- Construction vehicles shall not idle in excess of five minutes.
- Ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications.
- Water/mist soil as it is being excavated and loaded onto the transportation trucks.
- Water/mist and/or apply surfactants to soil placed in transportation trucks prior to exiting the site.
- Minimize soil drop height into transportation trucks or stockpiles during dumping.
- Cover the bottom of the excavated area with polyethylene sheeting when work is not being performed.
- Place stockpiled soil on polyethylene sheeting and cover with similar material.
- Place stockpiled soil in areas shielded from prevailing winds.
- Sweep streets at the end of the day if visible soil material is carried onto adjacent public paved roads (recommend water sweepers).
- Install wheel washers (or steel shaker plates) where vehicles enter and exit unpaved roads onto paved roads or wash off trucks and any equipment leaving the site each trip.
- Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour (mph).
- Excavation and transportation of soil known to contain hazardous substances should be limited to periods when school is not in session.

Hazards and Hazardous Materials

The Project has the potential to transport hazards and hazardous materials during construction and operation. We ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- During construction, ingress/egress routes to the construction site should be designed to ensure that trucks and construction vehicles carrying hazards and hazardous materials are routed away from District school sites. Additional recommendations are provided in this letter under the Transportation/Traffic section.

Noise

Noise created by construction activities may affect the schools in proximity to the development. These construction activities include grading, earth moving, hauling, and use of heavy equipment.

LA Unified established maximum allowable noise levels to protect students and staff from noise impacts generated in terms of Leq. These standards were established based on regulations set forth by the California Department of Transportation. LA Unified's exterior noise standard is 67 dBA Leq and the interior noise standard is 45 dBA Leq. A noise level increase of 3 dBA or more over ambient noise levels is considered significant for existing schools and would require mitigation to achieve levels within 2 dBA of pre-project ambient level. To ensure that effective measures are employed to reduce construction related noise impacts on the campus, we ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- Provisions shall be made to allow the school and or designated representative(s) to notify the project applicant when noise impacts to the schools exceed the District's noise standards.
- All pile driving equipment shall be equipped with noise control devices and/or shall implement noise buffers with minimum quieting factor of 10dBA, to the extent feasible. If possible, drilled piles are preferred to driven piles.
- Demolition activities shall be scheduled for when school is not in session.

Traffic/Transportation

LA Unified's Transportation Branch **must be contacted** at (213) 580-2950 regarding the potential impact upon existing school bus routes. The Project Manager or designee will have to notify the LA Unified Transportation Branch of the expected start and ending dates for various portions of the project that may affect traffic within nearby school areas. To ensure that effective conditions are employed to reduce construction and operation related transportation impacts on District sites, including the net increase of 1,000 or more daily vehicle trips, we ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- School buses must have unrestricted access to schools.
- During the construction phase, truck traffic and construction vehicles may not cause traffic delays for our transported students.
- During and after construction, changed traffic patterns, lane adjustment, traffic light patterns, and altered bus stops may not affect school buses' on-time performance and passenger safety.
- Construction trucks and other vehicles are required to stop when encountering school buses using red-flashing-lights must-stop-indicators per the California Vehicle Code.
- Contractors must install and maintain appropriate traffic controls (signs and signals) to ensure vehicular safety.
- Parents dropping off their children must have access to the passenger loading areas.

Pedestrian Safety

Construction activities that include street closures, the presence of heavy equipment and increased truck trips to haul materials on and off the project site can lead to safety hazards for people walking in the vicinity of the construction site. To ensure that effective conditions are employed to reduce construction and operation related pedestrian safety impacts on District sites, we ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- Contractors must maintain ongoing communication with LAUSD school administrators, providing sufficient notice to forewarn children and parents when existing pedestrian routes to school may be impacted.
- Contractors must maintain safe and convenient pedestrian routes to all nearby schools.
- Contractors must install and maintain appropriate traffic controls (signs and signals) to ensure pedestrian and vehicular safety.
- Haul routes are not to pass by ***any*** school, except when school is ***not*** in session.
- No staging or parking of construction-related vehicles, including worker-transport vehicles, will occur on or adjacent to a school property.
- Funding for crossing guards at the contractor's expense is required when safety of children may be compromised by construction-related activities at impacted school crossings.
- Barriers and/or fencing must be installed to secure construction equipment and to minimize trespassing, vandalism, short-cut attractions, and attractive nuisances.
- Contractors are required to provide security patrols (at their expense) to minimize trespassing, vandalism, and short-cut attractions.

The District's charge is to protect the health and safety of students and staff, and the integrity of the learning environment. The comments presented above identify potential environmental impacts related to the proposed project that must be addressed to ensure the welfare of the students attending schools, their teachers and staff, as well as to inform parents and guardians of these students.

Thank you for your attention to this matter. If you need additional information, please contact me at (213) 241-4210 or at cp-bryan.fernandez@lausd.net.

Sincerely,

Bryan Ramos Fernandez, AICP
CEQA Project Manager
Los Angeles Unified School District (LAUSD)
Office of Environmental Health and Safety (OEHS)
333 S Beaudry Ave., 21st Floor, Los Angeles, CA 90017

Docusign Envelope ID: F4B862D6-2170-4361-A980-AB3686E8EE6E

Public Comment #3
Item 7.A
PEQC Meeting Date: February 4, 2025

Golden State Environmental Justice Alliance
Green Jobs & Clean Communities
P.O. Box 79222
Corona, CA 92877

January 17, 2025

VIA E-MAIL

Amanda Acuna
Community Development Manager
City of Gardena
1700 West 162nd Street
Gardena, CA 90247

Re: 1450 Artesia Specific Plan Mixed-Use Project, SCH Number 2023060263

Dear Ms. Acuna:

On behalf of the Golden State Environmental Justice Alliance ("GSEJA"), I am writing to you regarding the above-referenced project (the "Project").

GSEJA is withdrawing its comment letter and opposition to the Project. The Project's developer has addressed GSEJA's concerns about environmental mitigation.

Golden State Environmental Justice Alliance

By Signed by: Joe Bourgeois 6E633F6192A4437...
Joseph Bourgeois
Executive Director

MEMORANDUM

To:	Amanda Acuna, City of Gardena
From:	Nicole Cobleigh, Dudek
Subject:	1450 Artesia Specific Plan Project – Response to LAUSD Comment Letter, dated February 4, 2025
Date:	February 17, 2025
cc:	Lisa Kranitz, Assistant City Attorney
Attachment(s):	LAUSD Comment Letter

On February 4, 2025, on the day of the Planning Commission hearing for the 1450 Artesia Specific Plan Project (project or proposed project), Los Angeles Unified School District (LAUSD) submitted a comment letter raising concerns about environmental issues. Although this letter came in far after the public review period, responses to comments raised by LAUSD in their letter, included as an attachment to this Memorandum, are provided below.

Air Quality

LAUSD comments that students at nearby Gardena Early Education Center and Gardena High School, as well as residents at the Sage Park Apartments, be considered sensitive receptors. Additionally, LAUSD suggested 14 measures that should be incorporated into the project.

Construction Health Risks

Threshold AQ-3, within Section 3.1, Air Quality, of the EIR identifies students at both Gardena Early Education Center and Gardena High School, as well as residents within a 1,080-foot radius from the project site as sensitive receptors. This is consistent with the request by LAUSD. The results of the analysis shown in Threshold AQ-3 demonstrate that during construction, even without mitigation measures, potential health risk impacts to sensitive receptors at the nearby schools would be less than significant. The only sensitive receptors for which thresholds would be exceeded are the live/work and multifamily residential units directly west of the project site. The schools are located to the southeast of the project site. However, with implementation of mitigation measure MM-AQ-1, which requires the use of Tier 4 Final construction equipment, all construction health impacts for all sensitive receptors in the vicinity of the project site would be less than significant.

Recommended Measures

LAUSD identified 14 measures that should be incorporated into the project to address potential impacts to students and surrounding sensitive receptors. All of the measures suggested by LAUSD are either existing mitigation measures, standard construction practices, requirements of South Coast Air Quality Management District rules, or requirements of the Atlantic Richfield Company (ARC)

as they implement the Remedial Action Plan (RAP) under the oversight of the California Department of Toxic Substances Control (DTSC).

Hazards

LAUSD requested that trucks hauling contaminated materials be routed away from the Gardena Early Education Center and Gardena High School. LAUSD also identified one recommendation that be incorporated into the project.

Truck Routes

Existing onsite contaminants associated with historic use of the project site will undergo remediation by ARC with oversight provided by DTSC. A RAP has been prepared and approved by DTSC that outlines the remediation effort. As discussed in the RAP, as well as within Chapter 2, Project Description, of the EIR, ARC will be installing an engineered cap, soil vapor probes, and associated infrastructure on part of the project site prior to the construction of the proposed project atop the engineered cap. No contaminated soil will be removed from or transported off the project site. A treatment system will be installed, and a cap will be placed over the existing soil on site. As such, no trucks hauling contaminated soil will be existing from the project site or traveling past the nearby schools.

Recommended Measures

The measure recommended by LAUSD has to do with truck ingress and truck egress for trucks carrying hazardous materials. For the reason discussed above, the incorporation of an additional measure is not required. However, the project is required to implement the following four measures, as explained in Section 3.6, Hazards and Hazardous Materials, of the EIR:

PDF-HAZ-1: Remedial Action of the Gardena Sumps Site. ARC will coordinate with the Applicant to implement the Final RAP. The Final RAP includes: (a) excavation of degraded and soil-sludge mixture; (b) consolidation of this excavated mixture above the Cooper North and Cooper South Sumps; (c) grading for excavated areas; (d) grading and installation, maintenance, and repair of an engineered cap over the Cooper North and Cooper South sumps, including stabilization, foundation, low hydraulic conductivity and erosion resistance layers; (e) installation of a retaining wall system along the north side of the Haack sump; (f) installation, operation, maintenance and repair of a soil vapor control and monitoring system that will include soil vapor probes and associated infrastructure; (g) installation, operation, maintenance and repair of a groundwater monitoring system; and (h) restoration of vegetation and site conditions. The Final RAP will be implemented before the Applicant commences construction of the proposed Project. The portion of the proposed Project site that overlaps the sump areas and the top of the engineered cap will be paved and utilized as a parking lot. The Applicant will undertake measures to protect the remedy during site operation. As part of the Final RAP, a land use covenant will be established for the site to prohibit sensitive uses thereon, such as residential uses, but will permit the Proposed Project's commercial

and industrial uses, as well as the City's temporary uses. The Applicant will comply with all institutional controls that DTSC may require as part of the ongoing use of the site, except for those assigned to ARC as part of its Final RAP.

PDF-HAZ-2: Vapor Intrusion Mitigation. The Applicant will install a soil vapor barrier and ventilation systems beneath the proposed structure to protect building occupants against indoor soil vapor intrusion. Vapor barrier systems will meet guidelines described in the Vapor Intrusion Mitigation Advisory published by DTSC and CalEPA in 2011 (VIMA). Vapor barriers will be designed to meet the standards outlined in the VIMA and will be in general conformance with General Construction, Membrane Installation, and Ventilation Trench for Passive Gas Control System Requirements of the Los Angeles County Methane Gas Mitigation Standards. The system will include a vapor barrier membrane and passive sub-slab venting system. The system will be designed by a California-licensed engineer. Monitoring probes will be installed below the barrier system, to evaluate the effectiveness of the system. An OM&M Plan will be prepared to define the ongoing sampling required to confirm the vapor intrusion mitigation system (VIMS) is operating as designed. The OM&M Plan will include a decision tree and contingency plans in the event unexpected conditions are identified.

MM-HAZ-1 Pre-Demolition Hazardous Materials Abatement. Demolition or renovation plans and contract specifications shall incorporate abatement procedures for the survey and removal of materials containing asbestos, lead, polychlorinated biphenyls, hazardous materials, hazardous wastes, and universal waste items. All abatement work shall be done in accordance with federal, state, and local regulations, including those of the U.S. Environmental Protection Agency (which regulates disposal), Occupational Safety and Health Administration, U.S. Department of Housing and Urban Development, California Occupational Safety and Health Administration (which regulates employee exposure), and the South Coast Air Quality Management District.

MM-HAZ-2 Soil Management Plan. Prior to commencement of any earthmoving activities, a Soil Management Plan (SMP) shall be developed that addresses potential impacts in soil and soil vapor from releases on or near the Project site. The SMP shall include training procedures for identification of contamination. The SMP shall describe procedures for assessment, characterization, management, and disposal of contaminated soils in accordance with all applicable state and local regulations, including SCAQMD Rules 1466, 403, and 1166. The SMP shall include health and safety measures, which may include but are not limited to periodic work breathing zone monitoring and monitoring for volatile organic compounds using a handheld organic vapor analyzer in the event impacted soils are encountered during excavation activities. The Applicant or its designee shall implement the SMP during construction activities for the proposed Project. As the site is currently under regulatory oversight by DTSC and shall likely have a land use covenant in place at the time of construction, the SMP shall be submitted to DTSC for review and approval prior to earthmoving activities.

Noise

LAUSD expressed concerns about noise increases at the nearby school sites and suggested three measures for incorporation into the project.

As discussed under Threshold NOI-1 within Section 3.9, Noise, of the EIR, potential noise impacts to the nearest school, Gardena Early Education Center, were evaluated. The school was Noise Receptor Location No. 1. Existing exterior ambient noise at the school was measured to be 59.8 dBA, which is below the 67 dBA threshold cited by LAUSD in their comment letter. As shown in Table 3.9-7 in Section 3.9, Noise, of the EIR, at the nearest sensitive receptor to the east of the project site (residential receptor), which is actually closer than Gardena Early Education Center, construction activities are not expected to result in dBA increases beyond the 10 dBA exterior noise threshold, and as such, noise increases to the east of the project site, including at the nearby schools, would not exceed noise thresholds.

The school will be notified in advance of the start of construction; however, it is infeasible to restrict demolition and construction activities to outside of school hours. Given that the impact analysis in Section 3.9 demonstrates that impacts would remain less than significant with implementation the 8-foot sound barrier wall, there is no need to place further limitations on noise-producing activities at the project site.

Transportation and Pedestrian Safety

LAUSD expressed concerns about traffic, access to school sites, and suggested six measures that should be incorporated to maintain access to the schools. Of the measures suggested by LAUSD, four are required to be followed by the law. These include ensuring school buses have unrestricted access to schools, not affecting school buses on-time performance and passenger safety and vehicles stopping when encountering school buses and ensuring parents dropping of their children have access to the passenger loading areas. One suggested measure is a standard construction practice; contracts must install and maintain appropriate traffic controls to ensure vehicle safety. And, regarding the potential for construction traffic to create delays, the level of service analysis included in the Local Transportation Assessment (Appendix J2 of the EIR) demonstrated that intersection and roadway conditions in the project and school vicinity would not deteriorate such that traffic delays for students would occur as a result of the proposed project.

LAUSD also suggested eight measures related to pedestrian safety and access. Of the measures suggested by LAUSD, six are standard construction measures and practices (maintaining ongoing communication, maintaining safe and convenient pedestrian routes to all nearby schools, installing appropriate traffic controls, no equipment staging or parking adjacent to school property, secured barriers and fencing around the project site, and security patrols to minimize trespassing and vandalism). Regarding the request that haul routes not pass by any school except when school is not in session, as discussed under Hazards above, no soil will be removed from or transported off the project site. All soils onsite will be capped so no hauling activities will occur, and thus no hauling past schools would occur. Regarding the need for additional crossing guards, no school crosswalks are

adjacent to the project site would be affected such that additional crossing guards would be warranted.

Conclusion

As discussed above, the comments received by the City immediately prior to the February 4, 2025 Planning Commission do not raise any new or different issues or concerns beyond what was already addressed in the EIR. Based on the responses to the comments provided by LAUSD, no new or more severe environmental impacts related to air quality, hazards and hazardous materials, noise, and transportation and pedestrian safety would occur.

Attachment to Memorandum

Los Angeles Unified School District

Office of Environmental Health and Safety

ALBERTO M. CARVALHO
Superintendent

CARLOS A. TORRES
Director, Environmental Health and Safety

JENNIFER FLORES
Deputy Director, Environmental Health and Safety

February 4, 2025

Amanda Acuna
Long Beach Community Development Department
411 W Ocean Blvd., Fl 3
Long Beach, CA 90802

PROJECT: 1450 Artesia Specific Plan Draft Environmental Impact Report SCH # 2023060263

Presented below are comments submitted on behalf of the Los Angeles Unified School District (LA Unified or District) regarding the subject project located at 1450 Artesia Boulevard in the City of Gardena. LA Unified is concerned about the potential negative impacts of the project on our students, staff, and residents in the following schools and apartments on District-owned property and intended for District employees:

- Gardena Early Education Center, 1350 W. 177th Street, Gardena, Calif., 457 feet south of the Project site
- Gardena High School, 1301 W. 182nd Street, Gardena, Calif., 703 feet south of the Project site with **1,408** Grades 9-12 students
- Sage Park Apartments, 1310 177th Street, Gardena, Calif., 588 feet south of the Project site with **90** units.

The proposed Project would involve the construction and operation of a mixed-use development with a total building area of 268,000 square feet and an approximate height of 75 feet, including a self-storage use (three levels totaling 186,000 gross square feet [GSF] with 1,480 storage units over ground floor warehouse/distribution use and a 1,000-square-foot leasing office), a warehouse/distribution use (one level totaling 72,000 GSF with 10 loading docks), and an office/retail use (a mezzanine totaling 10,000 GSF). The Project's proposed 72,000 GSF of warehouse/distribution use includes 10,000 GSF of potential future square footage to account for the potential future acquisition of a 0.23-acre parcel currently occupied by a single residential dwelling unit. Additionally, proposed associated facilities and improvements include perimeter fencing, on-site and perimeter landscaping, lighting, exterior sidewalks, and pavement for on-site parking spaces. Under the Specific Plan, the parking lot area would be used periodically for City-sponsored outdoor events outside of the Project's warehouse/distribution component operating hours. The Project includes construction of a 200 GSF, non-habitable structure on the eastern side of the Project site for storage of special event-related materials by the City. The Applicant is coordinating with the Atlantic Richfield Company (ARC), which is a responsible party working under the direction of the California Department of Toxic Substances Control (DTSC) to implement a Remedial Action Plan (RAP) by installing an engineered cap, soil vapor probes, and associated infrastructure on part of the Project site before the Applicant commences construction of the proposed Project.

The District requests that our students be recognized as sensitive receptors and that the Project specifically address potential impacts. Based on the extent/location of the proposed development, it is our opinion that significant environmental impacts on the surrounding community may occur. Since the project may have

an environmental impact on LA Unified schools and housing site, recommended conditions designed to help reduce or eliminate potential impacts are included in this response.

Work with LA Unified

Project applicants should coordinate any construction activities with LA Unified to ensure safety of students and their families and minimize disruptions to school activities and access to campus. Effective strategies for avoiding significant impacts on school operations include:

- Completing construction activities such as demolition and excavation when the schools are not in session (summer and winter breaks, holidays, weekends, and after hours).
- Including school and District representatives to review construction management plans, construction outreach plans, and participation in weekly construction meetings.
- Obtaining prior authorization from the District for any easements and project activities on surrounding District properties.
- Working with the District in identifying appropriate construction mitigation programs.

Air Quality

District students, school staff, and residents should be considered sensitive receptors to air pollution impacts. To ensure that effective measures are applied to further reduce construction air pollutant impacts, we ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- Implement all applicable provisions of Rule 403 for fugitive dust control during construction of the Project.
- Utilize low emission "clean diesel" equipment with new or modified engines manufactured to meet Tier 4 specifications or retrofitted to comply with CARB's verified diesel emission control strategy (VDECS).
- Construction vehicles shall not idle in excess of five minutes.
- Ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications.
- Water/mist soil as it is being excavated and loaded onto the transportation trucks.
- Water/mist and/or apply surfactants to soil placed in transportation trucks prior to exiting the site.
- Minimize soil drop height into transportation trucks or stockpiles during dumping.
- Cover the bottom of the excavated area with polyethylene sheeting when work is not being performed.
- Place stockpiled soil on polyethylene sheeting and cover with similar material.
- Place stockpiled soil in areas shielded from prevailing winds.
- Sweep streets at the end of the day if visible soil material is carried onto adjacent public paved roads (recommend water sweepers).
- Install wheel washers (or steel shaker plates) where vehicles enter and exit unpaved roads onto paved roads or wash off trucks and any equipment leaving the site each trip.
- Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour (mph).
- Excavation and transportation of soil known to contain hazardous substances should be limited to periods when school is not in session.

Hazards and Hazardous Materials

The Project has the potential to transport hazards and hazardous materials during construction and operation. We ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- During construction, ingress/egress routes to the construction site should be designed to ensure that trucks and construction vehicles carrying hazards and hazardous materials are routed away from District school sites. Additional recommendations are provided in this letter under the Transportation/Traffic section.

Noise

Noise created by construction activities may affect the schools in proximity to the development. These construction activities include grading, earth moving, hauling, and use of heavy equipment.

LA Unified established maximum allowable noise levels to protect students and staff from noise impacts generated in terms of Leq. These standards were established based on regulations set forth by the California Department of Transportation. LA Unified's exterior noise standard is 67 dBA Leq and the interior noise standard is 45 dBA Leq. A noise level increase of 3 dBA or more over ambient noise levels is considered significant for existing schools and would require mitigation to achieve levels within 2 dBA of pre-project ambient level. To ensure that effective measures are employed to reduce construction related noise impacts on the campus, we ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- Provisions shall be made to allow the school and or designated representative(s) to notify the project applicant when noise impacts to the schools exceed the District's noise standards.
- All pile driving equipment shall be equipped with noise control devices and/or shall implement noise buffers with minimum quieting factor of 10dBA, to the extent feasible. If possible, drilled piles are preferred to driven piles.
- Demolition activities shall be scheduled for when school is not in session.

Traffic/Transportation

LA Unified's Transportation Branch **must be contacted** at (213) 580-2950 regarding the potential impact upon existing school bus routes. The Project Manager or designee will have to notify the LA Unified Transportation Branch of the expected start and ending dates for various portions of the project that may affect traffic within nearby school areas. To ensure that effective conditions are employed to reduce construction and operation related transportation impacts on District sites, including the net increase of 1,000 or more daily vehicle trips, we ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- School buses must have unrestricted access to schools.
- During the construction phase, truck traffic and construction vehicles may not cause traffic delays for our transported students.
- During and after construction, changed traffic patterns, lane adjustment, traffic light patterns, and altered bus stops may not affect school buses' on-time performance and passenger safety.
- Construction trucks and other vehicles are required to stop when encountering school buses using red-flashing-lights must-stop-indicators per the California Vehicle Code.
- Contractors must install and maintain appropriate traffic controls (signs and signals) to ensure vehicular safety.
- Parents dropping off their children must have access to the passenger loading areas.

Pedestrian Safety

Construction activities that include street closures, the presence of heavy equipment and increased truck trips to haul materials on and off the project site can lead to safety hazards for people walking in the vicinity of the construction site. To ensure that effective conditions are employed to reduce construction and operation related pedestrian safety impacts on District sites, we ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- Contractors must maintain ongoing communication with LAUSD school administrators, providing sufficient notice to forewarn children and parents when existing pedestrian routes to school may be impacted.
- Contractors must maintain safe and convenient pedestrian routes to all nearby schools.
- Contractors must install and maintain appropriate traffic controls (signs and signals) to ensure pedestrian and vehicular safety.
- Haul routes are not to pass by ***any*** school, except when school is ***not*** in session.
- No staging or parking of construction-related vehicles, including worker-transport vehicles, will occur on or adjacent to a school property.
- Funding for crossing guards at the contractor's expense is required when safety of children may be compromised by construction-related activities at impacted school crossings.
- Barriers and/or fencing must be installed to secure construction equipment and to minimize trespassing, vandalism, short-cut attractions, and attractive nuisances.
- Contractors are required to provide security patrols (at their expense) to minimize trespassing, vandalism, and short-cut attractions.

The District's charge is to protect the health and safety of students and staff, and the integrity of the learning environment. The comments presented above identify potential environmental impacts related to the proposed project that must be addressed to ensure the welfare of the students attending schools, their teachers and staff, as well as to inform parents and guardians of these students.

Thank you for your attention to this matter. If you need additional information, please contact me at (213) 241-4210 or at cp-bryan.fernandez@lausd.net.

Sincerely,

Bryan Ramos Fernandez, AICP
CEQA Project Manager
Los Angeles Unified School District (LAUSD)
Office of Environmental Health and Safety (OEHS)
333 S Beaudry Ave., 21st Floor, Los Angeles, CA 90017

1450 Artesia Acquisition Company LLC
2015 Manhattan Beach Blvd, Suite 104
Redondo Beach, CA 90278

January 9, 2025

Amanda Acuna
Community Development Manager
City of Gardena
1700 West 162nd Street
Gardena, CA 90247

Re: 1450 Artesia Specific Plan Mixed-Use Project: Economic Analysis

Dear Ms. Acuna:

I provide as follows a summary analysis of the estimated revenues that the 268,000 square-foot self-storage space, industrial warehouse and office mixed-use project (the "Project"), proposed by 1450 Artesia Acquisition Company LLC ("Artesia"), would generate for the City of Gardena (the "City") if the City certifies the Project's Environmental Impact Report and approves its requested entitlements, and the Project is built and operated.

Artesia estimates the Project would generate approximately $781,878 in gross property tax revenue on an annual basis once the Project is constructed and the parcels forming the Project site, along with the Project's improvements, are re-assessed based on the projected values of these improvements and real property. The current annual gross property tax revenue from these parcels and their improvements is $49,674, or $732,204 less than the estimated annual gross property tax revenue that the Project is estimated to produce. As can be seen, the Project would thus increase property tax revenues by over $7 million for the first ten years of its operational life, and by over $14 million in its first 20 years of operation.

The Project would also confer over $1,600,000 in financial benefits upon the City and the communities it serves comprised of:

- A payment by Artesia of $1,000,000 for the City's General Fund under the proposed Development Agreement between the City and Artesia as a public benefit
- Construction and development-related fees of about $481,807
- School impact fees of approximately $120,960 that will be paid to the Los Angeles Unified School District

Please let us know if the foregoing summary satisfies the City's request for information regarding estimated revenues that the Project would generate.

Sincerely,

Charles Brown, Chief Financial Officer
1450 Artesia Acquisition Company LLC

RESOLUTION NO. 6693

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA CERTIFYING AN ENVIRONMENTAL IMPACT REPORT, ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM, ADOPTING A STATEMENT OF OVERRIDING CONSIDERATIONS AND MAKING CEQA FINDINGS RELATING TO THE 1450 ARTESIA SPECIFIC PLAN FOR THE 6.33 ACRE PROPERTY LOCATED NEAR THE SOUTHWEST CORNER OF ARTESIA BOULEVARD AND NORMANDIE AVENUE

WHEREAS, on May 11, 2021 an application was received from Brian Sorensen on behalf of Insite Property Group LLC to develop a building consisting of warehouse and self-storage uses on property located on a 6.33 acre site near the southwest corner of Artesia Boulevard and Normandie Avenue and consisting of APNs 6106-036-010, -012, -034, -035, -036, and -037 (the "Project Site"); and

WHEREAS, the eastern portion of the Project Site is known as the Gardena Sumps; and

WHEREAS, on June 17, 2022 the Department of Toxic Substances Control approved a Remedial Action Plan ("RAP") for the former owner of the Gardena Sumps to remediate the property; and

WHEREAS, the development, as analyzed, consists of 268,000 square foot building consisting of 186,000 gross square feet of self-storage units, 72,000 gross square feet of industrial warehouse/distribution use, and a 10,000 square foot office/retail area (the "Project"); and

WHEREAS, on February 4, 2025, the Planning Commission of the City of Gardena, California held a duly noticed hearing on this Project at which time it considered all evidence presented, both written and oral; and

WHEREAS, after the close of the public hearing the Planning Commission recommended that the City Council certify the EIR for the Project, make the findings required by CEQA, and adopt a mitigation monitoring and reporting program as well as approve the entitlements required for the project; and

WHEREAS, on February 25, 2025 the City Council held a duly noticed public hearing on the Project and the EIR for the Project, at which time it considered all evidence presented, both oral and written;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA DOES HEREBY RESOLVE AS FOLLOWS:

SECTION 1. CEQA Procedures. The City Council of the City of Gardena does hereby find as follows:

A. In November 2021, the City entered into a consultant agreement with Dudek to prepare an EIR for the Project.

B. A Notice of Preparation ("NOP") for the Draft EIR and the Initial Study ("IS") was timely distributed and the public comment period on the NOP was from June 8, 2023 through July 10, 2023.

C. On June 22, 2023, the City held a scoping meeting in accordance with Public Resources Code § 21083.9 and CEQA Guidelines § 15082(c).

D. The Draft EIR was made available for a 45-day public review period from August 1, 2024, through September 16, 2024. The Notice of Availability ("NOA") was sent to a list of interested persons, agencies and organizations, adjacent property owners, and to anyone who had requested notice. The Notice of Completion was filed with the State Clearinghouse in Sacramento for distribution to public agencies. The DEIR and all the appendices were made available on the City's website with directions to contact staff if help was needed in accessing the document.

E. Prior to the release of the DEIR and in accordance with SB 18 and AB 52, the City sent notices to the list of Native American Tribes provided by the Native American Heritage Council. Only one tribe requested consultation: the Gabrieleno Band of Mission Indians – Kizh Nation. The City engaged in consultation and mitigation measures have been included in the EIR as a result of the consultation.

F. The City received and reviewed comments on the Draft EIR and prepared responses to those comments which were incorporated into that document entitled Final EIR and dated December 2024. The Final EIR consisted of the Draft EIR and all Appendices thereto, incorporating the written comments and responses thereto, as well as the changes to the DEIR and the Mitigation Monitoring and Reporting Program.

G. Responses were sent to the public agencies that commented on the DEIR and the Final EIR was made available for public review on January 31, 2025.

H. On February 4, 2025, the City received a late comment letter from the Los Angeles Unified School District ("LAUSD"). A response was prepared by the environmental consultant.

I. None of the comments received, including the letter from LAUSD, or the revisions made resulted in any changes that necessitated recirculation of the DEIR. The comments did not disclose any significant information. The changes made to the document merely clarify/amplify and make insignificant modifications to the DEIR.

J. The City has complied with all procedural requirements relating to CEQA and other requirements of law. The Final EIR is adequate and complete and complies with all CEQA requirements.

K. In certifying the Final EIR, adopting the Findings and a Statement of Overriding Considerations, and adopting the Mitigation Monitoring and Reporting Program, the City Council has exercised its independent judgement and analysis. The City Council has reviewed and considered the Final EIR, agenda reports, written reports, public testimony, and other information in the record and reviewed this information prior to acting upon the Project.

L. Each and every one of the findings and determinations in this Resolution are based on the competent and substantial evidence, both oral and written, contained in the entire record relating to the Project. All summaries of information in the findings which precede this section are based on the entire record. The absence of any particular fact from any such summary is not an indication that a particular finding is not based in part on that fact.

SECTION 2. CEQA Findings Regarding Impacts.

A. An Initial Study was prepared for the Project which determined that a number of topics were not required to be discussed in the EIR. The following topics were excluded from analysis based on the analysis therein: aesthetics; agricultural and forestry resources; biological resources; mineral resources; population and housing; public services; recreation; and wildfire. The Initial Study is included in Appendix A of the EIR. The City Council finds that no additional analysis is required on these topics.

B. The impacts that are analyzed in the EIR are discussed in detail in Sections 3.1 through 3.12 and summarized in the Executive Summary of the Draft EIR. In addition to the impacts found to be insignificant through the Initial Study, the following topics were found to be less than significant and no mitigation measures are required for these topics as summarized below:

1. Air Quality relating to: conflicting with or obstructing an applicable air quality plan; cumulatively considerable new increase of any criteria pollutant where the region is non-attainment; and resulting in other emissions such as odors which would adversely affect a substantial number of people.

2. Cultural Resources relating to: causing a substantial change in a historical resource, and disturbing human remains.

3. Energy relating to: a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy; and conflicting with/obstructing a plan for renewable energy or energy efficiency.

4. Geology and Soils relating to: rupture of earthquakes; the location of the project being on an unstable area or expansive soil.

5. Hydrology and Water Quality relating to: decreasing groundwater supplies or interfering with groundwater recharge; and altering the existing drainage patter of the site.

6. Land Use and Planning relating to conflicting with a plan, policy or regulation adopted for purpose of avoiding or mitigating an environmental effect.

7. Transportation relating to: conflicting with a program, plan, ordinance or policy addressing the circulation system; inconsistency with CEQA Guidelines relating to VMT; and having a hazard geometric design feature.

8. Tribal Cultural Resources (TCR) relating to causing a substantial adverse change in the significance of a TCR as defined in Public Resources Code section 5020.1(k).

9. Utilities and Service Systems relating to: the need for the relocation or new construction of utilities; the ability to have a sufficient water supply; capacity for wastewater treatment; generation of excess solid waste; and management and reduction statutes and regulations relating to solid waste.

C. The EIR identifies the below topic areas as significant, but can be mitigated below a level of significance as summarized below.

1. Air Quality relating to exposing sensitive receptors to substantial pollutant concentrations. This will be mitigated below a level of significance by Mitigation Measure (MM) – AQ-1 requiring clean construction equipment, MM-AQ-2 requiring electric cargo handling equipment, and MM-GHG-1 establishing on-site solar power.

2. Cultural Resources relating to causing a substantial adverse change in the significance of an archeological resource. This impact will be mitigated below a level of significance by MM-CUL-1 which requires a Workers Environmental Awareness Program, MM-CUL-2 which requires the retention of an on-call qualified archaeologist if there is an inadvertent discovery, and MM-CUL-3 which requires a work stoppage within 100 feet of the find.

3. Geology and Soils relating to destroying a unique paleontological resource or geologic feature. This impact will be mitigated below a level of significance by MM-GEO-1 which requires steps to be taken in case of an inadvertent discovery of a resource.

4. Greenhouse Gas Emissions relating to generating greenhouse gas emissions or conflicting with a plan, policy, or regulation to reduce the emissions. These impacts will be mitigated below a level of significance by both the project design features (PDF) of the Project being designed to be all-electric and MM-GHG-1 establishing on-site solar power and MM-AQ-2 requiring electric cargo handling equipment.

5. Hazards and Hazardous Materials relating to: the routine transport, use, or disposal of material; the release of hazardous materials into the environment or within ¼ mile of a school, and being included on a list of hazardous material sites. These impacts will be mitigated by which will be mitigated by PDF-HAZ-1 implementing the final Remedial Action Plan (RAP) approved by DTSC, MM-HAZ-1 relating to pre-demolition hazardous materials abatement, andMM-HAZ-2 requiring a soil management plan, and PDF-HAZ-2 installing a vapor intrusion barrier. It is specifically recognized that *include info on being on a hazardous site, the RAP, etc.*

6. Noise relating to: City-sponsored special events which will be mitigated by MM-NOI-2 which requires the City to follow certain requirements relating to time of events and amplification; and excessive groundborne vibration or noise levels which will be mitigated by MM-NOI-3 requiring a construction vibration management plan.

7. Tribal Cultural Resource relating to a change in the significance of a TCR as defined in Public Resources Code section 5024.1 which will

be mitigated by: MM-TCR-1 requiring Native American monitoring; MM-TCR-2 implementing steps if there is an unanticipated discovery of tribal cultural resource objects; MM-TCR-3 and MM-TCR-4 implementing steps if there is an unanticipated discovery of human remains and funerary objects. The Cultural Resources measures will also mitigate this impact.

D. The only impact which cannot be mitigated below a level of significance and is unavoidable is construction noise. This impact will be mitigated to the extent possible by the imposition of MM-NOI-1 which requires installation of a sound barrier along the western Project boundary.

SECTION 3. Alternatives.

A. In accordance with CEQA, the EIR both considered and rejected certain alternatives and examined four alternatives to the Project, all of which are discussed in Chapter 5.

B. The purpose of looking at alternatives is to try and avoid or substantially lessen any of the significant effects of the Project while still attaining most of the basic objectives. As discussed in Section 3 above, the only impact of the Project that could not be reduced to a less than significant level is construction noise.

1. The No Project Alternative would retain the Project site in its current condition with decades-old buildings on site which do not conform to current development standards. This alternative does not implement any of the Project's improvements and would not meet any of the Project's objectives. Because the Remedial Action Plan to clean-up the site would still go forward, two structures would still have to be demolished. No City-sponsored special events would occur.

2. The Reduced Density Alternative would reduce the development footprint by 50 percent. City-sponsored special events would still occur. This Alternative would meet the objectives of the Project, but not to the same degree; it would not eliminate the significant and unavoidable construction noise impact.

3. The Self-Storage Only Alternative would have the same footprint, with less space for office uses. City-sponsored special events would still occur. This Alternative would meet the objectives of the Project, but not to the same degree; it would not eliminate the significant and unavoidable construction noise impact.

4. The Truck-Storage Lot Alternative would replace the building with a truck parking and storage lot. No City-sponsored special events would occur. This alternative would meet some, but not all, of the Project objectives but would not eliminate the significant and unavoidable construction noise impact.

C. An EIR is supposed to identify alternatives that were considered for analysis, but rejected. The following alternatives were rejected:

1. Residential Development – this alternative is infeasible due to the contamination of the site. Clean-up cannot achieve a safe level for residential development or other sensitive uses.

2. Avoid Significant Construction Noise – the only way to avoid this impact is to build on the eastern portion of the Project Site. However, because of the contamination, no building may take place on that location and this alternative is infeasible.

3. All Commercial Development – this alternative is infeasible because the market will not support such development. The site was identified under the former Artesia Corridor Specific Plan from July 2006 to February 2023, with no development being proposed. Additionally, since the time the property was designated for commercial under the since repealed Artesia Corridor Specific Plan, the retail market has changed.

CEQA requires an identification of the environmentally superior alternative and if that alternative is one of the No Project alternatives, then an identification of the environmentally superior alternative among the remaining alternatives. In this case the No Project alternative is the environmentally superior alternative as it would not result in significant noise impacts. Among the other alternatives, the Reduced Density Alternative is the environmentally superior alternative. However, this Alternative would not reduce or avoid the significant and unavoidable construction noise impact generated by the proposed Project.

SECTION 4. CEQA Section 15091 Findings.

CEQA Section 15091 provides that the City shall not approve a project when there are significant environmental effects unless certain findings are made. In accordance with Section 15091, the City Council makes the following findings:

A. The applicant has incorporated Project Design Features into the Project which will help avoid impacts relating to greenhouse gas emissions, hazardous materials, and transportation.

B. Mitigation Measures will be imposed on the Project which will reduce the impacts to as set forth in Section 3 above.

C. No mitigation measures were proposed for the Project which were rejected.

D. There is no alternative that would both eliminate the significant construction noise impact and achieve the objectives of the Project. Each of the alternatives is found to be infeasible due to the following reasons:

1. The No Project Alternative is rejected because it would not achieve any of the Project objectives. The Project Site would be left in a substandard, deteriorated condition with three structures remaining on the property. There would be no economic benefits from the construction, ongoing operations, and tax revenues from the project. There would be no opportunity for the City to host periodic outdoor community events and would not provide any public benefit of a monetary donation to the City.

2. The Reduced Density alternative would achieve most of the objectives, but would still have significant construction noise. Economic benefits to the city from the construction, ongoing operations, and tax revenues would be reduced. Additionally, there would be no ability for the applicant to provide a public benefit of a monetary donation to the City.

3. The Self-Storage Only Alternative would have the same construction impacts but would not meet the financial-related objectives as well as the proposed Project and there would be no ability for the applicant to provide a public benefit of a monetary donation to the City.

4. The Truck-Storage Lot Alternative would not completely eliminate the construction noise. This Alternative would not meet the Project objectives to the same extent, would provide less revenue to the City in terms of construction, operations, and tax benefits. There would be no opportunity for the City to host periodic outdoor community events and the alternative would not provide any ability for the

applicant to provide the public benefit of a monetary donation to the City.

SECTION 5. CEQA Section 15093 Findings. Statement of Overriding Considerations.

CEQA requires decisionmakers to balance the benefits of a proposed project against its unavoidable environmental impacts. If the benefits of a proposed project outweigh the unavoidable adverse environmental effects, the adverse effects may be considered "acceptable" by adopting a Statement of Overriding Considerations. This statement sets forth the project benefits or reasons why the City Council is in favor of approving the Project, and weighs these benefits against the Project's environmental impacts that cannot be mitigated to a level less than significant as identified in the Final EIR. In adopting this Statement of Overriding Considerations, the City Council finds that while all of these benefits are important, each benefit on its own supports a sufficient reason why the benefits outweigh the significant impacts, of which only one cannot be mitigated below a level of significance and that impact is temporary in nature (construction noise).

A. The Project Site is currently in a dilapidated condition with three warehouses, and a variety of trailer-type storage structures on the building, as well as an old structure housing a U-Haul rental agency. The eastern portion of the Site is known as the Gardena Sumps and is subject to a Final Remedial Action Plan (RAP) that will be implemented by the prior owner. The RAP includes provisions for a legal land use covenant to limit future use of the site as well as long-term monitoring and maintenance of an engineered cap and underlying groundwater. The Sump portion has had a temporary cap on it for over three decades. Until this application, no development proposals had been submitted to the City.

B. The proposed Project will revitalize this site with a use that has been approved by the Department of Toxic Substance Control. Development of the property will include measures that would complement the RAP and enhance the ability to achieve cleanup standards appropriate for commercial/industrial uses.

C. The Project will provide economic benefits as follows:

1. One-time monetary benefits in the form of permit and inspection fees.

2. Increased property taxes to the City.

3. Each contractor that does business in the City will be required to obtain and pay for a City business license.

D. In addition to the monetary benefits set forth above, the applicant will enter into a Development Agreement with the City which will provide additional benefits the

City would not otherwise be entitled to including:

1. Providing a one-time monetary contribution to the City of one million dollars ($1,000,000.00);

2. Agreeing to use best efforts to hire locally-based construction workers and use materials from local sources;

3. Providing the City with a space of approximately 36,000 square feet to host Special Events up to 36 times per year on the weekends; and

4. Constructing a 200 square foot storage building for the City to use for items related to the special events.

SECTION 6. Certification. Based on the above, the City Council hereby certifies the Final Environmental Impact Report for the 1450 Artesia Specific Plan Project attached hereto as Exhibits A (Draft EIR) and B (Final EIR) and adopts the Mitigation Monitoring and Reporting Program attached hereto as Exhibit C. The response letter to LAUSD, attached hereto as Exhibit D, shall be considered a part of the Final EIR as well.

SECTION 7. Custodian of Record. Each and every one of the findings and determinations in this Resolution are based on the competent and substantial evidence, both oral and written, contained in the entire record relating to the Project. All summaries of information in the findings which precede this section are based on the entire record. The absence of any particular fact from any such summary is not an indication that a particular finding is not based in part on that fact. The documents and materials that constitute the record of proceedings on which these findings and approval are based are located in the Community Development Department at City Hall, 1700 W. 162nd Street, Gardena, California 90247. The Custodian of Records is Greg Tsujiuchi, Community Development Director who can be reached at 310/217-9546 or gtsujiuchi@cityofgardena.org.

SECTION 8. Severability. If any section, subsection, subdivision, paragraph, sentence, clause or phrase of this ordinance, or any part thereof is for any reason held to be unconstitutional, such decision shall not affect the validity of the remaining portion of this ordinance or any part thereof. The City Council hereby declares that it would have passed each section, subsection, subdivision, paragraph, sentence, clause or phrase thereof, irrespective of the fact that any one or more section, subsection, subdivision, paragraph, sentence, clause or phrase be declared unconstitutional.

SECTION 9. Certification. The City Clerk shall certify the passage of this resolution.

SECTION 10. Effective Date. This Resolution shall be effective immediately.

Passed, approved, and adopted this 25th day of February, 2025.

TASHA CERDA, Mayor

ATTEST:

MINA SEMENZA, City Clerk

APPROVED AS TO FORM:

CARMEN VASQUEZ, City Attorney

Exhibit A – Draft EIR, dated July 2024
Exhibit B – Final EIR, dated January 2025
Exhibit C – Mitigation Monitoring and Reporting Program
Exhibit D – Response to LAUSD Comment Letter

Draft Environmental Impact Report

1450 Artesia Specific Plan

JULY 2024

Prepared for:

CITY OF GARDENA
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Gardena, California 90247
Contact: Amanda Acuna

Prepared by:

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AB	Assembly Bill
ACC	Advanced Clean Cars
ACM	asbestos-containing material
ADAM	Aerometric Data Analysis and Measurement System
ADT	average daily vehicle trips
AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
AFV	alternative fuel vehicle
AFY	acre-feet per year
APA	Annual Production Allowance
APA	Allowed Pumping Allocation
APN	Assessor's Parcel Number
APSA	Aboveground Petroleum Storage Act
AQMP	Air Quality Management Plan
ARC	Atlantic Richfield Company
ASF	Age Sensitivity Factor1
BACT	Best Available Control Technology
BMP	best management practice
BTU	British Thermal Unit
CAAQS	California Ambient Air Quality Standards
CAC	Certified Asbestos Consultant
CAFE	Corporate Average Fuel Economy
CalARP	California Accidental Release Prevention
CalEEMod	California Emissions Estimator Model
CalEMA	California Emergency Management Agency
CalEPA	California Environmental Protection Agency
CalGEM	California Geologic Energy Management Division
CALGreen	California Green Building Standards
CAP	Climate Action Plan
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCR	California Code of Regulations
CCS	carbon capture and sequestration

Acronym/Abbreviation	Definition
CEC	California Energy Commission
CERS	California Environmental Reporting System
CERT	Community Emergency Response Training
CFC	chlorofluorocarbon
CGS	California Geological Survey
CH4	methane
CHP	California Highway Patrol
CHRIS	California Historical Resources Information System
CIWM	California Integrated Waste Management
CIWQS	California Integrated Water Quality System
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CNRA	California Natural Resources Agency
CO	carbon monoxide
CO2	carbon dioxide
CO2e	carbon dioxide equivalent
CPP	Clean Power Plan
CPUC	California Public Utilities Commission
CWA	Clean Water Act
DAC	Disadvantaged Community
dBA	A-weighted decibel
DDT	dichlorodiphenyltrichloroethane
DHS	Department of Health Services
DISEIO	Determination of Imminent and/or Substantial Endangerment and Issuance Order
DMA	drainage management area
DPM	diesel particulate matter
DPW	Department of Public Works
DRPEP	Distributed Resources Plan External Portal
DSOD	Division of Safety of Dams
DTSC	California Department of Toxic Substances Control
DU	dwelling unit
DWR	California Department of Water Resources
EERP	Enforcement and Emergency Response Program
EIR	environmental impact report
EISA	Energy Independence and Security Act of 2007

Acronym/Abbreviation	Definition
EJ	Environmental Justice
EOP	Emergency Operations Plan
EPA	U.S. Environmental Protection Agency
EPCRA	Emergency Planning and Community Right to Know Act
ESL	Environmental Screening Level
EV	electric vehicle
EVSE	electric vehicle supply equipment
EWMP	enhanced watershed management program
FAH	fraction of time at home
FAR	Floor Area Ratio
FCAA	Federal Clean Air Act
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
FTIP	Federal Transportation Improvement Plan
GGP	Gardena General Plan
GHG	greenhouse gas
GPD	Gardena Police Department
gpd	gallons per day
GSA	Groundwater Sustainability Agency
GSF	gross square feet
GSP	Groundwater Sustainability Plan
GSWC	Golden State Water Company
GWh	gigawatt-hour
GWP	global warming potential
HAP	hazardous air pollutant
HCFC	hydrochlorofluorocarbon
HERO	Human and Ecological Risk Office
HFC	hydrofluorocarbon
HHMD	Health and Hazardous Materials Division
HHRA	Human Health Risk Assessment
HMBP	hazardous materials business plan
HMIS	Hazardous Material Inventory Statements
HMMP	Hazardous Material Management Plan
HQTA	High-Quality Transit Area
HSC	California Health and Safety Code
IPaC	Information for Planning and Consultation
IPCC	Intergovernmental Panel on Climate Change

Acronym/Abbreviation	Definition
IRWMP	Integrated Regional Water Management Plan
IS	Initial Study
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
JWPCP	Joint Water Pollution Control Plant
kWh	kilowatt-hour
LACDPW	Los Angeles County Department of Public Works
LACFCD	Los Angeles County Flood Control District
LACoFD	Los Angeles County Fire Department
LACSD	Los Angeles County Sanitation Districts
LADPW	Los Angeles County Department of Public Works
LAUSD	Los Angeles Unified School District
LBP	lead-based paint
LCFS	Low Carbon Fuel Standard
LEL	lower explosive limit
LEV	Low-Emission Vehicle
LID	Low Impact Development
Lmin	minimum sound level
LOR	Laws, Ordinances, and Regulations
LST	Local Significance Threshold
LTA	Local Transportation Assessment
LUC	land use covenant
LUST	leaking underground storage tank
MEIR	Maximally Exposed Individual Resident
mgd	million gallons per day
MLD	most likely descendant
MM	Mitigation Measure
MMT	million metric tons
MPO	metropolitan planning organization
MS4	municipal separate storm sewer systems
MW	megawatt
MWh	megawatt-hour
N2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NED	National Elevation Dataset

Acronym/Abbreviation	Definition
NESHAP	National Emission Standards for Hazardous Air Pollutants
NETR	Nationwide Environmental Title Research LLC
NF3	nitrogen trifluoride
NHTSA	National Highway Traffic Safety Administration
NO2	nitrogen dioxide
NOP	Notice of Preparation
NOX	nitrogen oxides
NPDES	National Pollution Discharge Elimination System
NRCS	Natural Resources Conservation Service
NSR	New Source Review
NWL	Natural and Working Lands
OAERP	Operational Area Emergency Response Plan
OSHA	Occupational Safety and Health Administration
PCB	polychlorinated biphenyl
PCE	tetrachloroethylene
PDF	Project Design Feature
PFC	perfluorocarbon
PM10	coarse particulate matter
PPV	peak particle velocity
PRC	California Public Resources Code
PRD	Permit Registration Document
RAO	Remedial Action Order
RAP	Remedial Action Plan
RCNM	Roadway Construction Noise Model
RCRA	Resource Conservation and Recovery Act
REC	recognized environmental condition
RECLAIM	Regional Clean Air Incentives Market
REL	Reference Exposure Level
RFS	Renewable Fuel Standard
RHNA	Regional Housing Needs Assessment
ROG	reactive organic gases
RPS	Renewables Portfolio Standard
RSL	Regional Screening Level
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SAFE	Safer Affordable Fuel-Efficient
SB	Senate Bill

Acronym/Abbreviation	Definition
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCE	Southern California Edison
SCS	Sustainable Communities Strategy
SEMS	Standardized Emergency Management System
SF	square feet
SF6	sulfur hexafluoride
SGMA	Sustainable Groundwater Management Act
SIP	State Implementation plan
SLF	Sacred Lands File
SMP	Soil Management Plan
SO2	sulfur dioxide
SoCalGas	Southern California Gas Company
SPCC	Soil Prevention, Control, and Countermeasure
SR	State Route
SRA	source receptor area
STC	sound transmission class
SVOC	semi-volatile organic compound
SWIMS	Solid Waste Information Management System
SWIS	Solid Waste Information System
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminants
TAT	Technical Assistance Team
TCR	Tribal Cultural Resource
TMDL	total maximum daily load
TRI	Toxics Release Inventory
TSCA	Toxic Substances Control Act
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Services
USGS	U.S. Geological Society
UST	underground storage tank
UWMP	Urban Water Management Plan
VHFHSZ	Very High Fire Hazard Severity Zone
VIMS	vapor intrusion mitigation system
VMT	vehicle miles traveled

Acronym/Abbreviation	Definition
WDR	Waste Discharge Requirement
WEAP	Workers Environmental Awareness Program
WMP	watershed management program

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Executive Summary

This chapter provides a summary of the Draft Environmental Impact Report (EIR) for the proposed 1450 Artesia Specific Plan Project (proposed Project or Project). Included in this summary are areas of known controversy and issues to be resolved, a summary of Project alternatives, a summary of all Project impacts and associated mitigation measures, and a statement of the ultimate level of significance after mitigation is applied.

ES.1 Document Purpose

This Draft EIR was prepared by the City of Gardena (City), as lead agency, to inform decision makers and the public of the potential significant environmental impacts associated with the proposed Project. This Draft EIR has been prepared in accordance with the California Environmental Quality Act (CEQA) Statute (California Public Resources Code, Section 21000 et seq.) and Guidelines (14 CCR 15000 et seq.) published by the Public Resources Agency of the State of California.

The purpose of this Draft EIR is to focus the discussion on those potential impacts on the environment of the Project that the lead agency has determined may be significant. In addition, feasible mitigation measures are recommended, when applicable, that could reduce or avoid significant environmental impacts.

ES.2 Document Organization

This EIR is organized as follows:

Executive Summary, summarizes the Project, potential environmental impacts associated with the Project as well as mitigation measures required to reduce any identified potentially significant impacts.

Chapter 1, Introduction, serves as a forward to the EIR, introducing the Project, the applicable environmental review procedures, and the organization of the EIR.

Chapter 2, Project Description, provides a thorough description of the proposed Project elements, the purpose and need for the Project, Project objectives, and required discretionary approvals. This chapter also includes a description of the intended uses of the EIR and public agency actions.

Chapter 3, Environmental Analysis, describes the potential environmental effects of the proposed Project, as well as proposed mitigation measures to reduce or avoid any potentially significant impacts. The discussion in Chapter 3 is organized by 12 environmental issue areas as follows:

- Air Quality
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Transportation
- Tribal Cultural Resources
- Utilities and Service System

For each environmental issue area, the analysis and discussion are organized into subsections as described below:

- **Environmental Setting** – This subsection describes the physical environmental conditions in the vicinity of the proposed Project at the time of publication of the Notice of Preparation (NOP). The environmental setting establishes the baseline conditions by which the City will determine whether specific Project-related impacts are significant.
- **Relevant Plans, Policies, and Ordinances** – This subsection describes the regulatory setting applicable to the environmental issue area and the proposed Project at the time of publication of the NOP.
- **Thresholds of Significance** – This subsection identifies a set of thresholds by which the level of impact is determined.
- **Methodology** – This subsection describes how the analysis was conducted.
- **Impact Analysis** – This subsection provides a detailed analysis regarding the environmental effects of the proposed Project and whether the impacts of the proposed Project would meet or exceed the significance thresholds.
- **Mitigation Measures** – This subsection identifies potentially feasible mitigation measures that would avoid or substantially reduce significant adverse Project impacts.
- **Level of Significance After Mitigation** – This subsection discusses whether Project-related impacts would be reduced to below a level of significance with implementation of the mitigation measures identified in the EIR. If applicable, this subsection also identifies any residual significant and unavoidable adverse effects of the proposed Project that would result even with implementation of any feasible mitigation measures.
- **Cumulative Effects** – This subsection analyzes the potential of the proposed Project to result in significant cumulative impacts.
- **References** – In addition to the eight subsections listed above, full citations for all referenced documents are included at the end of each section or chapter.

Chapter 4, Other CEQA Requirements, addresses significant environmental effects that cannot be avoided, the significant irreversible environmental changes that would result from implementation of the proposed Project, growth-inducing impacts associated with the proposed Project, and potential secondary effects of mitigation measures included for the proposed Project.

Chapter 5, Alternatives, discusses alternatives to the proposed Project, including a No Project Alternative. This chapter describes the rationale for selecting the range of alternatives discussed in the EIR and identifies the alternatives considered by the City that were rejected from further discussion as infeasible during the scoping process. Lastly, Chapter 5 includes a discussion of the environmental effects of the alternatives that were carried forward for analysis and identifies the environmentally superior alternative.

Chapter 6, List of Preparers, gives names and contact information of those responsible for writing this EIR.

Appendices include various technical studies prepared for the proposed Project, as listed in the Table of Contents.

ES.3 Project Location

The 1450 Artesia Specific Plan would cover a site that is approximately 6.33 acres located in the City of Gardena, at the corner of Artesia Boulevard and Normandie Avenue, two major thoroughfares within the City (Figure 2-1, Project Location). The Project site is located approximately 12 miles southwest of downtown Los Angeles and is locally accessible via several major freeways including Interstate (I) 405, I-110, I-105 and State Route (SR) 91 (Artesia Boulevard). Artesia Boulevard, an east-west street forming the northern boundary of the Plan area, delivers direct access to the Specific Plan area. Local access to the Project site is also provided from Normandie Avenue, traveling north-south just east of the Project site and Western Avenue, traveling north-south within the vicinity to the west of the Project site (Figure 2-1).

The Project site consists of the following Assessor Parcel Numbers (APNs): 6106-036-010, 6106-036-012, 6106 036-034, 6106-036-035, 6106-036-036, 6106-036-037 (collectively, the "Project site"). Specifically, the Project site is located in Township 3 South, Range 14 West, Section 00 (Randymajors Research Hub 2024).

ES.4 Project Description

ES.4.1 Project Overview

The proposed Project would result in the redevelopment of mixed-use property with a new mixed-use development consisting of the following components, as shown in Figure 2-4, Site Plan: a 268,000 gross-square-foot (GSF) building, associated surface parking, landscaping and circulation improvements, a self-storage use of three levels totaling 186,000 GSF, an industrial warehousing use (one level totaling 72,000 GSF plus 10 loading docks), and an office/retail use (a mezzanine totaling 10,000 GSF). Other Project improvements include a small storage structure for use by the City, perimeter fencing, on-site and perimeter landscaping, lighting, and exterior sidewalks, two curb cuts – one for right turn in, and one for right turn out driveways along Artesia Boulevard and 124 automobile parking stalls, including 5 accessible spaces, 6 electric vehicle (EV) charging station spaces, and 25 EV-ready spaces.

ES.4.2 Project Objectives

The primary objectives of the proposed Project include the following:

- Redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor within the City
- Develop appropriate uses in an area with a legacy of contamination in a manner that protects human health and the environment and allows for continued monitoring of remediated areas
- Produce short-and long-term jobs during the Project's construction and operations phases
- Generate property and sales tax revenues for the City to enhance its services to the community and infrastructural improvements

- Provide the City a substantial monetary public benefit to the City's General Fund
- Provide the City with an outdoor venue to hold community events

ES.5 Areas of Known Controversy

In accordance with the CEQA Guidelines, an NOP was distributed on June 8, 2023, to public agencies, organizations, and interested individuals. The purpose of the NOP was to provide notification that the City planned to prepare an EIR and to solicit input on the scope and content of the EIR. Approximately 21 copies of the NOP were distributed, and eight written comment letters were received by the City. These letters and the NOP are included in Appendix A of this EIR.

A scoping meeting was held at the City of Gardena City Council Chambers on June 22, 2023. The purpose of this meeting was to seek input from public agencies and the general public regarding the potential environmental impacts of the proposed Project. Approximately seven people attended the scoping meeting. The public comments, questions, and concerns that were received at the scoping meeting generally included the following areas:

- Air Quality – emissions during construction and from operational traffic
- Land Use and Planning – land use conflicts between warehouses and sensitive receptors
- Noise –noise increases from operational traffic
- Transportation – adequate parking or implementation of TDM elements to reduce needed parking spaces, increased VMT and traffic from trucks and residential vehicles, additional EV parking spaces, improvements to the pedestrian network, bike rack and potential Class IV bike lane on Artesia Boulevard or a Dominguez Channel bike path
- Utilities and Service Systems – adequate wastewater flow

This EIR focuses on all potential environmental impacts, including the comments received in response to the NOP.

ES.6 Required Permits and Approvals

The City is the lead agency for the proposed Project pursuant to CEQA Guidelines Section 15367. The Applicant would obtain all permits and approvals, as required by law. A list of permits or other forms of approval required of the proposed Project is provided in Table ES-1.

Table ES-1. Permits or Other Actions Required

Agency	Jurisdiction	Permit Regulatory Requirement/Approval
State		
State Water Resources Control Board	Responsible Agency	General Construction Activity National Pollutant Discharge Elimination System (NPDES) Permit

Table ES-1. Permits or Other Actions Required

Agency	Jurisdiction	Permit Regulatory Requirement/Approval
Los Angeles County Fire Department	Responsible Agency	Plan check
Local		
City of Gardena	Lead Agency	▪ Adoption of the 1450 Artesia Specific Plan ▪ Zone Text Amendment ▪ Development Agreement ▪ Site Plan Review ▪ Lot Merger

ES.7 Summary of Environmental Impacts and Mitigation Measures

Table ES-2 provides a summary of the impact analysis related to the Project. Table ES-2 identifies a summary of the significant environmental impacts resulting from the Project pursuant to the CEQA Guidelines Section 15123(b)(1). For more detailed discussion, please see Chapter 3 of this Draft EIR. Table ES-2 lists the applicable mitigation measures related to potentially significant impacts, as well as the level of significance after mitigation.

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
Air Quality			
AQ-1. Would the project conflict with or obstruct implementation of the applicable air quality plan?	Less than Significant	N/A	N/A
AQ-2. Would the project result in a cumulatively considerable new increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	Less than Significant	N/A	N/A
AQ-3. Would the project expose sensitive receptors to substantial pollutant concentrations?	Potentially Significant	MM-AQ-1. Clean Construction Equipment Prior to issuance of grading permits, the Applicant shall prepare and submit documentation to the City of Gardena that demonstrate the following: ▪ All off-road diesel-powered construction equipment greater than 50 horsepower meets California Air Resources Board (CARB) Tier 4 Final off-road emissions standards or, if not commercially available, meet Tier 4 Interim off-road emission standards (as shown in CARB's 2017 Off-Road Diesel Emission Factor Update for NO_x and PM). A copy of each unit's Best Available Control Technology (BACT) documentation (certified tier	Less than Significant

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		specification or model year specification), and CARB or South Coast Air Quality Management District operating permit (if applicable) shall be provided to the City at the time of mobilization of each applicable unit of equipment. ▪ Construction equipment shall be properly maintained according to manufacturer specifications. ▪ All construction equipment and delivery vehicles shall be turned off when not in use, or limit on-site idling for no more than 5 minutes in any 1 hour. ▪ On-site electrical hook ups to a power grid shall be provided for electric construction tools including saws, drills, and compressors, where feasible, to reduce the need for diesel powered electric generators. MM-AQ-2. Electric Cargo Handling Equipment All outdoor cargo handling equipment (such as yard trucks, hostlers, yard goats, pallet jacks, and forklifts) shall be zero emission (i.e., powered by electricity or other alternative fuels). The warehouse building shall include the necessary charging stations for cargo handling equipment. The building manager or	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		their designee shall be responsible for enforcing these requirements. MM-GHG-1. Establish On-Site Solar Power Prior to the issuance of a Building permit, the Project Applicant shall provide written proof to the City of Gardena Community Development Director that the total annual electricity demand from on-site operations does not exceed 2,226,107 kWh/year. On-site electrical demand exceeding 2,226,107 kWh/year shall be supplied by on-site renewable sources (e.g., solar photovoltaic panels). Further, the Project will be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every 3 years, to incorporate improved energy efficiency technologies and methods. The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. The Title 24 Energy Efficiency Standards (Section 110.10) require buildings to be designed to have 15% of the roof area "solar ready" that will structurally accommodate later installation of rooftop solar panels. If future building operators	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		pursue providing rooftop solar panels, they will submit plans for solar panels prior to occupancy.	
AQ-4. Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	Less than Significant	N/A	N/A
Cultural Resources			
CUL-1. Would the Project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	Less than Significant	N/A	N/A
CUL-2. Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5?	Potentially Significant	MM-CUL-1. Workers Environmental Awareness Program Prior to the start of construction activities, all construction personnel and monitors shall be trained regarding identification and treatment protocol for inadvertent discoveries of cultural resources (archaeological and tribal) and human remains. A basic presentation and handout or pamphlet shall be prepared in order to ensure proper identification and treatment of inadvertent discoveries of cultural resources and human remains. The purpose of the Workers Environmental Awareness Program (WEAP) training is to provide specific details on the kinds of	Less than Significant

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		materials that may be identified during ground disturbing activities and explain the importance of and legal basis for the protection of human remains and significant cultural resources. Each worker shall also be trained in the proper procedures to follow in the event that cultural resources or human remains are uncovered during ground disturbing activities. These procedures include but are not limited to work curtailment or redirection, and the immediate contact of the site supervisor and archaeological monitoring staff. MM-CUL-2. Retention of an On-Call Qualified Archaeologist A qualified archaeologist shall be retained and on-call to respond and address any inadvertent discoveries identified Project implementation. Additionally, in consideration of the potential to encounter intact cultural deposits beneath fill soils, the qualified archaeologist shall survey the proposed Project site once fill soils have been removed to ensure no cultural deposits underly the fill layer. If is determined, based on the aforementioned survey, that cultural resources are present or may be present and may be impacted during Project construction,	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		monitoring may be warranted. Additionally, any identified cultural resources shall be assessed and evaluated pursuant to CEQA. If it is determined that monitoring is warranted, a qualified archaeological principal investigator, meeting the Secretary of the Interior's Professional Qualification Standards, shall oversee and adjust monitoring efforts as needed (increase, decrease, or discontinue monitoring frequency) based on the observed potential for construction activities to encounter cultural deposits or material. The archaeological monitor will be responsible for maintaining daily monitoring logs. MM-CUL-3. Inadvertent Discovery Clause In the event that potential archaeological resources (sites, features, or artifacts) are exposed during ground disturbing, all construction work occurring not less than 100 feet of the find shall immediately stop and the qualified archaeologist that has been retained on call must be notified immediately to assess the significance of the find and determine whether or not additional study is warranted. Depending upon the significance of the find under the CEQA, the archaeologist may simply record the find and allow work to	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		continue. If the discovery proves significant under CEQA, additional work (e.g., preparation of an archaeological treatment plan, testing, data recovery, or monitoring) may be warranted if the resource cannot be feasibly avoided. If the discovery is Native American in nature, consultation with and/or monitoring by a tribal representative may be necessary.	
CUL-3. Would the project disturb any human remains, including those interred outside of formal cemeteries?	Less than Significant	N/A	N/A
Energy			
ENG-1. Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	Less than Significant	N/A	N/A
ENG-2. Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	Less than Significant	N/A	N/A
Geology and Soils			
GEO-1. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:			
i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake	No Impact	N/A	N/A

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?			
ii. Strong seismic ground shaking	Less than Significant	N/A	N/A
iii. Seismic-related ground failure, including liquefaction	Less than Significant	N/A	N/A
GEO-2. Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	Less than Significant	N/A	N/A
GEO-3. Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	Less than Significant	N/A	N/A
GEO-4. Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	Potentially Significant	MM-GEO-1. Inadvertent Discovery In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Once documentation and	Less than Significant

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		collection of the find is completed, the monitor will remove the rope and allow grading to recommence in the area of the find. Salvaged fossils deemed to be significant shall be donated to an accredited repository with retrievable storage such as a museum. Costs for preparing the fossils for accessioning into the accredited repository and any associated curation fees shall be paid by the Project Applicant.	
Greenhouse Gas Emissions			
GHG-1. Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment? GHG-2. Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	Potentially Significant	PDF-GHG-1. The Project shall be designed to be all-electric and prohibit connection to natural gas infrastructure. Using electric instead of natural gas-powered appliances replaces a more emissions-intensive fossil fuel source of energy with a less emissions-intensive source of energy as electricity from the grid is increasingly transitioning to renewable sources. MM-GHG-1. Establish On-Site Solar Power Prior to the issuance of a Building permit, the Project Applicant shall provide written proof to the City of Gardena Community Development Director that the total annual electricity demand from on-site operations does not	Less than Significant

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		exceed 2,226,107 kWh/year. On-site electrical demand exceeding 2,226,107 kWh/year shall be supplied by on-site renewable sources (e.g., solar photovoltaic panels). Further, the Project will be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every 3 years, to incorporate improved energy efficiency technologies and methods. The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. The Title 24 Energy Efficiency Standards (Section 110.10) require buildings to be designed to have 15% of the roof area "solar ready" that will structurally accommodate later installation of rooftop solar panels. If future building operators pursue providing rooftop solar panels, they will submit plans for solar panels prior to occupancy. See MM-AQ-2 listed above.	
Hazards and Hazardous Materials			
HAZ-1. Would the project create a significant hazard to the public or the environment through the routine	Potentially Significant	PDF-HAZ-1. Remedial Action of the Gardena Sumps Site	Less than Significant

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
transport, use, or disposal of hazardous materials?		ARC will coordinate with the Applicant to implement the Final RAP. The Final RAP includes: (a) excavation of degraded and soil-sludge mixture; (b) consolidation of this excavated mixture above the Cooper North and Cooper South Sumps; (c) grading for excavated areas; (d) grading and installation, maintenance, and repair of an engineered cap over the Cooper North and Cooper South sumps, including stabilization, foundation, low hydraulic conductivity and erosion resistance layers; (e) installation of a retaining wall system along the north side of the Haack sump; (f) installation, operation, maintenance and repair of a soil vapor control and monitoring system that will include soil vapor probes and associated infrastructure; (g) installation, operation, maintenance and repair of a groundwater monitoring system; and (h) restoration of vegetation and site conditions. The Final RAP will be implemented before the Applicant commences construction of the proposed Project. The portion of the proposed Project site that overlaps the sump areas and the top of the engineered cap will be paved and utilized as a parking lot. The Applicant will undertake measures to protect the remedy during site operation. As part of the Final RAP, a land use covenant will be	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		established for the site to prohibit sensitive uses thereon, such as residential uses, but will permit the proposed Project's commercial and industrial uses, as well as the City's temporary uses. The Applicant will comply with all institutional controls that DTSC may require as part of the ongoing use of the site, except for those assigned to ARC as part of its Final RAP. MM-HAZ-1. Pre-Demolition Hazardous Materials Abatement Demolition or renovation plans and contract specifications shall incorporate abatement procedures for the survey and removal of materials containing asbestos, lead, polychlorinated biphenyls, hazardous materials, hazardous wastes, and universal waste items. All abatement work shall be done in accordance with federal, state, and local regulations, including those of the U.S. Environmental Protection Agency (which regulates disposal), Occupational Safety and Health Administration, U.S. Department of Housing and Urban Development, California Occupational Safety and Health Administration (which regulates employee exposure), and the South Coast Air Quality Management District.	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		MM-HAZ-2. Soil Management Plan Prior to commencement of any earthmoving activities, a Soil Management Plan (SMP) shall be developed that addresses potential impacts in soil and soil vapor from releases on or near the Project site. The SMP shall include training procedures for identification of contamination. The SMP shall describe procedures for assessment, characterization, management, and disposal of contaminated soils in accordance with all applicable state and local regulations, including SCAQMD Rules 1466, 403, and 1166. The SMP shall include health and safety measures, which may include but are not limited to periodic work breathing zone monitoring and monitoring for volatile organic compounds using a handheld organic vapor analyzer in the event impacted soils are encountered during excavation activities. The Applicant or its designee shall implement the SMP during construction activities for the proposed Project. As the site is currently under regulatory oversight by DTSC and shall likely have a land use covenant in place at the time of construction, the SMP shall be submitted to DTSC for review and approval prior to earthmoving activities.	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
HAZ-2. Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	Potentially Significant	PDF-HAZ-2. Vapor Intrusion Mitigation The Applicant will install a soil vapor barrier and ventilation systems beneath the proposed structure to protect building occupants against indoor soil vapor intrusion. Vapor barrier systems will meet guidelines described in the Vapor Intrusion Mitigation Advisory published by DTSC and CalEPA in 2011 (VIMA). Vapor barriers will be designed to meet the standards outlined in the VIMA and will be in general conformance with General Construction, Membrane Installation, and Ventilation Trench for Passive Gas Control System Requirements of the Los Angeles County Methane Gas Mitigation Standards. The system will include a vapor barrier membrane and passive sub-slab venting system. The system will be designed by a California-licensed engineer. Monitoring probes will be installed below the barrier system, to evaluate the effectiveness of the system. An OM&M Plan will be prepared to define the ongoing sampling required to confirm the vapor intrusion mitigation system (VIMS) is operating as designed. The OM&M Plan will include a decision tree and contingency plans in the event unexpected conditions are identified.	Less than Significant

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		Also see PDF-HAZ-1, MM-HAZ-1, and MM-HAZ-2 above.	
HAZ-3. Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	Potentially Significant	See PDF-HAZ-1, PDF-HAZ-2, MM-HAZ-1, and MM-HAZ-2 above.	Less than Significant
HAZ-4. Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as result, would is create a significant hazard to the public or the environment?	Potentially Significant	See PDF-HAZ-1, PDF-HAZ-2, and MM-HAZ-2 above.	Less than Significant
Hydrology and Water Quality			
HYD-1. Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project would impede sustainable groundwater management of the basin?	Less than Significant	N/A	N/A
HYD-2. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or through the addition of impervious surfaces, in a manner which would:			
i. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater	Less than Significant	N/A	N/A

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
drainage systems or provide substantial additional sources of polluted runoff?			
HYD-3. Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	Less than Significant	N/A	N/A
Land Use and Planning			
LU-1. Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	Less than Significant	N/A	N/A
Noise			
NOI-1. Would the Project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	Potentially Significant	MM-NOI-1. Construction Noise Prior to issuance of a Demolition Permit, the Applicant shall demonstrate, to the satisfaction of the City of Gardena Building Official, that the construction contracts include at least an 8-foot-high temporary noise barrier along the western Project boundary. The temporary noise barrier shall have a sound transmission class (STC) of 25 or greater in accordance with the ASTM Test Method E90, or at least 2 pounds per square foot to ensure adequate transmission loss	Significant and Unavoidable (Construction)

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		characteristics. To achieve this, the barrier may consist of steel tubular framing, welded joints, a layer of 18-ounce tarp, a 2-inch thick fiberglass blanket, a 1/2-inch thick weatherwood asphalt sheathing, and 7/16-inch sturdy board siding. The barrier must be free of degrading holes or gaps and shall be designed to prevent structural failure due to factors such as wind, shear, shallow soil failure, earthquakes, and erosion. MM-NOI-2. Special Event Noise All City-sponsored special events shall be subject to the following requirements: ▪ Special Events shall be restricted to the hours of 7:00 a.m. to 10:00 p.m. ▪ Amplified noise sources (e.g., speakers, bandstands) shall be directed away from the nearest noise-sensitive receptors. ▪ Amplification systems will be positioned so that the tilt of the systems is downwards slightly to focus sound on the ground and prevent it from traveling up towards noise-sensitive receptors. Amplification systems will also be distributed to minimize sound levels closest to individual sources.	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
NOI-2. Would the Project generate excessive ground-borne vibration or ground-borne noise levels?	Potentially Significant	MM-NOI-3. Construction Vibration The Project Applicant will require contractor(s) to comply with a Vibration Management Plan and implement minimum allowable setbacks from nearby buildings/structures to the west for heavy machinery. For all new construction, the contractor(s) will not use pile drivers, pavement breakers, or blasting equipment. In addition, when construction is required in direct proximity to the residences immediately west of the Project site, the contractor(s) will observe the following minimum allowable setbacks for specified construction equipment: ▪ Small bulldozer/tractors shall not be used within 11 feet of buildings to the west; ▪ Jackhammers shall not be used within 54 feet of any buildings to the west; ▪ Loaded trucks shall not be used within 95 feet of buildings to the west; and ▪ Large bulldozers shall not be used within 105 feet of any buildings to the west.	Less than Significant
Transportation			
TRA-1. Would the project conflict with a program, plan, ordinance or policy addressing the circulation system,	Less than Significant	N/A	N/A

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
including transit, roadway, bicycle and pedestrian facilities?			
TRA-2. Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?	Less than Significant	N/A	N/A
TRA-3. Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	Less than Significant	N/A	N/A
Tribal Cultural Resources			
TCR-1. Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?	Less than Significant	N/A	N/A

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
TCR-2. Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?	Potentially Significant	MM-TCR-1. Native American Monitoring A. Prior to commencement of ground-disturbing activities, the Project Applicant/lead agency shall retain a Native American Monitor from or approved by the Gabrieleño Band of Mission Indians – Kizh Nation. The monitor shall be retained prior to the commencement of any "ground-disturbing activity" for the subject Project at all Project locations (i.e., both on-site and any off-site locations that are included in the Project Description/definition and/or required in connection with the Project, such as public improvement work). "Ground-disturbing activity" shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching. B. A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity or the issuance of any permit necessary to commence a ground-disturbing activity.	Less than Significant

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		C. The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities performed, locations of ground disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the tribe. Monitoring logs will identify and describe any discovered Tribal Cultural Resources (TCRs), including, but not limited to, Native American cultural and historical artifacts, remains, and places of significance, as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitoring logs will be provided to the Project Applicant/lead agency upon written request to the tribe. D. On-site tribal monitoring shall conclude upon the latter of the following: (1) written confirmation to the monitor from a designated point of contact for the Project Applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the Project site	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		or in connection with the Project are complete; or (2) a determination and written notification by the monitor to the Project Applicant/lead agency that no future planned construction activity and/or development/construction phase at the Project site possesses the potential to impact TCRs. MM-TCR-2. Unanticipated Discovery of Tribal Cultural Resource Objects (Non-Funerary/Non-Ceremonial) Management strategies stipulated in MM-CUL-1 through MM-CUL-3 shall be implemented in the event that Project activities encounter cultural resources. In addition, the following TCR-specific measures shall be implemented. Upon discovery of any TCRs or archaeological resources, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the monitor and an archaeologist meeting the Secretary of the Interior's Professional Qualification Standards for archaeology (National Park Service 1983). A. If the resources are Native American in origin, the Kizh will recover and retain	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		all discovered TCRs in the form and/or manner the tribe deems appropriate, in the tribe's sole discretion, and for any purpose the tribe deems appropriate, including for educational, cultural and/or historic purposes. B. If the archaeologist determines that the resource meets the criteria as a "historical resource" or "unique archaeological resource" under CEQA, time allotment and funding sufficient to allow for the implementation of avoidance measures or appropriate mitigation shall be made available. The treatment plan shall be in accordance with CEQA Guidelines § 15064.5(f) for historical resources and Public Resources Code § 21083.2(b) for unique archaeological resources. If not left in place, any historic or archaeological material that is not Native American in origin shall be curated at a public, nonprofit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum at the University of California Los Angeles, if such an institution agrees to accept the	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		material. If no institution accepts the archaeological material, they shall be offered to a local school or historical society for educational purposes. MM-TCR-3. Unanticipated Discovery of Human Remains and Associated Funerary Objects A. Native American human remains are defined in California Public Resources Code (PRC) Section 5097.98(d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in PRC Section 5097.98, are also to be treated according to this statute. B. If human remains and/or grave goods are discovered or recognized on the Project site, then all construction activities shall immediately cease within 200 feet of the discovery and PRC Section 5097.9 and California Health and Safety Code Section 7050.5 shall be followed. This includes among other required measures, the immediate contact of the County Coroner, the principal archaeologist retained for the Project and if the remains are potentially Native	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		American in origin, the Gabrieleno Band of Mission Indians-Kizh Nation. C. Human remains and grave/burial goods found with such remains shall be treated alike per PRC Sections 5097.98(d)(1) and (2). D. Construction activities may resume in other parts of the Project site at a minimum of 200 feet away from discovered human remains and/or burial goods. This determination will be made by the construction monitor in consultation with the principal archaeologist and if the remains are potentially Native American in origin, the Gabrieleno Band of Mission Indians-Kizh Nation. No further constriction shall occur until the construction monitor and/or principal archaeologist has given expressed consent of that determination (along with any other mitigation measures the monitor and/or archaeologist deems necessary). (CEQA Guidelines Section 15064.5[f]). E. Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		MM-TCR-4. Unanticipated Discovery of Human Remains and Associated Funerary Objects This mitigation measure shall only apply if the Gabrieleno Band of Mission Indians-Kizh Nation is designated as the Most Likely Descendant ("MLD") by the NAHC. A. The Koo-nas-gna Burial Policy shall be implemented. To the tribe, the term "human remains" encompasses more than human bones. In ancient as well as historic times, tribal traditions included, but were not limited to, the preparation of the soil for burial, the burial of funerary objects with the deceased, and the ceremonial burning of human remains. B. If the discovery of human remains includes four or more burials, the discovery location shall be treated as a cemetery and a separate treatment plan shall be created. C. The prepared soil and cremation soils are to be treated in the same manner as bone fragments that remain intact. Associated funerary objects are objects that, as part of the death rite or ceremony of a culture, are reasonably believed to have been	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		placed with individual human remains either at the time of death or later; other items made exclusively for burial purposes or to contain human remains can also be considered as associated funerary objects. Cremations will either be removed in bulk or by means as necessary to ensure complete recovery of all sacred materials. D. In the case where discovered human remains cannot be fully documented and recovered on the same day, the remains will be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours. The tribe will make every effort to recommend diverting the Project and keeping the remains in situ and protected. If the Project cannot be diverted, it may be determined that burials will be removed. E. In the event preservation in place is not possible despite good faith efforts by the Project Applicant/developer and/or landowner, before ground-	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		disturbing activities may resume on the Project site, the landowner shall arrange a designated site location within the footprint of the Project for the respectful reburial of the human remains and/or ceremonial objects. F. Each occurrence of human remains and associated funerary objects will be stored using opaque cloth bags. All human remains, funerary objects, sacred objects and objects of cultural patrimony will be removed to a secure container on site if possible. These items should be retained and reburied within 6 months of recovery. The site of reburial/repatriation shall be on the Project site but at a location agreed upon between the tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered G. The tribe will work closely with the Project's qualified archaeologist to ensure that the excavation is treated carefully, ethically and respectfully. If data recovery is approved by the tribe, documentation shall be prepared and shall include (at a minimum) detailed	

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
		descriptive notes and sketches. All data recovery data recovery related forms of documentation shall be approved in advance by the tribe. If any data recovery is performed, once complete, a final report shall be submitted to the tribe and the NAHC. The tribe does NOT authorize any scientific study or the utilization of any invasive and/or destructive diagnostics on human remains. Also see **MM-CUL-1**, **MM-CUL-2**, and **MM-CUL-3** above.	
Utilities and Service Systems			
UTL-1. Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which would cause significant environmental effects?	Less than Significant	N/A	N/A
UTL-2. Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	Less than Significant	N/A	N/A

Table ES-2. Summary of Project Impacts

Environmental Topic	Impact?	Mitigation Measure(s)	Level of Significance After Mitigation
UTL-3. Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	Less than Significant	N/A	N/A
UTL-4. Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	Less than Significant	N/A	N/A
UTL-5. Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	Less than Significant	N/A	N/A

ES.8 Summary of Project Alternatives

Section 15126.6 of the CEQA Guidelines identifies the parameters within which consideration and discussion of alternatives to the Project should occur. As stated in this section of the Guidelines, alternatives must focus on those that are reasonably feasible and that attain most of the basic objectives of the Project. Each alternative should be capable of avoiding or substantially lessening any significant impacts of the Project. The rationale for selecting the alternatives to be evaluated and a discussion of the No Project Alternative are also required, per Section 15126.6.

ES.8.1 Alternatives Evaluated

This section discusses the alternatives to the Project, including the No Project Alternative, under consideration. The No Project (No Development) Alternative, which is a required element of an EIR pursuant to Section 15126.6(e) of the CEQA Guidelines, examines the environmental effects that would occur if the Project were not to proceed and no development activities were to occur. The other alternatives are discussed as part of the "reasonable range of alternatives" selected by the lead agency. The following alternatives are addressed in this section, followed by a more detailed discussion of each:

- Alternative 1 – No Project Alternative
- Alternative 2 – Reduced Density Alternative
- Alternative 3 – Self-Storage Only Alternative
- Alternative 4 – Truck-Storage Lot Alternative

Alternative 1 – No Project Alternative

Under Alternative 1, development of the Project site would not occur as discussed in Chapter 2 of this Draft EIR, and no new permanent development or land uses would be introduced. However, Alternative 1 assumes that remediation of the site as stipulated in the Final RAP would proceed as that document has been approved by DTSC and the remediation process would occur absent the proposed Project, which would include demolition of two existing structures. The other two existing structures would remain as nonconforming uses.

Alternative 2 – Reduced Density Alternative

Alternative 2 consists of a Project with the same elements as the proposed Project but reduced in square footage and development footprint by 50%. Therefore, this Alternative assumes 93,000 square feet of self-storage uses consisting of 740 storage units, 36,000 square feet of industrial warehouse/distribution uses, and 5,000 square feet of office/mezzanine uses, which would be developed on the western half of the Project site. Operations would be proportionately less under this Alternative. Special events would remain unchanged from the proposed Project under Alternative 2.

Alternative 3 – Self-Storage Only Alternative

Alternative 3 consists of self-storage only development at the Project site. Like the proposed Project, this Alternative assumes a single building totaling 268,000 square feet. However, under this

Alternative, the building would be entirely self-storage, except for 2,000 square feet for office/lease space. Assuming a similar proportion of self-storage units to overall square footage, this Alternative assumes 2,100 self-storage units.

Alternative 3 would include similar construction activities as the Project, given the same parking, square footage, and landscaping would be constructed. Operation of Alternative 3 would result in fewer employees, given self-storage uses require fewer employees than industrial warehouse/distribution uses. City-sponsored special events would remain unchanged under this Alternative.

Alternative 4 – Truck-Storage Lot Alternative

Alternative 4 would replace the Project's self-storage, industrial, and office/mezzanine use building (totaling 268,000 square feet) with a truck parking and storage lot. Alternative 4 would include 165 trailer parking stalls for heavy-duty trucks to drop off and store trailers as well as a security check-in station at the northwest corner at the entrance/exit. Alternative 4 would include demolition of all on-site structures and paving of the entire Project site. A conceptual site plan for Alternative 4 is depicted on Figure 5-1.

Operations would result in an estimated two employees for nighttime security purposes only. Heavy-duty trucks would drive onto the site via Artesia Boulevard and store trailers, typically for up to 48 hours. Some heavy-duty trucks may drop off their trailers and containers at the site, which could be stored at the site for longer periods of time up to 1 month. Special events would not occur under Alternative 4 because the entire Project site would be needed for trailer and container storage on a 24-hour, 7-day-per-week basis with all tractor trailer spaces available due to the unpredictability of the number of spaces needed at any given time.

ES.8.2 Environmentally Superior Alternative

A summary of the environmental impacts associated with each alternative is provided in Table ES-3. As shown, Alternative 1 (No Project Alternative) would be the environmentally superior alternative, because it would avoid all of the environmental impacts of the proposed Project.

The environmental impacts of Alternative 2 (Reduced Density Alternative) would be reduced compared to the proposed Project in the areas of construction and operational air quality, greenhouse gas emissions and energy because construction and operational activity would be reduced by half. It would also reduce demand on utilities and water supplies by half and generate half the solid waste of the proposed Project. Alternative 2 would also avoid construction and operation over the engineered cap on the eastern half of the Project site, which would reduce potential exposure to the most contaminated portion of the site. Alternative 2 would also result in half the amount of vehicle trips when compared to the proposed Project. However, these reductions in impacts would not result in any different impact determinations than the determinations for the proposed Project. Additionally, Alternative 2 would not reduce or avoid the significant and unavoidable construction noise impact generated by the proposed Project.

The environmental impacts of Alternative 3 (Self-Storage Only Alternative) would be essentially the same as the proposed Project because the Project would be the same size and on the same footprint, with the exception of operational air quality and transportation impacts, which would be reduced

when compared to the proposed Project because the trip generation would be reduced. Some reductions in demand on utilities and solid waste generation could occur with the removal of the industrial warehouse/distribution use but they would not be substantial and would not result in any different impact determinations than the determinations for the proposed Project. Additionally, Alternative 3 would not reduce or avoid the significant and unavoidable construction noise impact generated by the proposed Project.

The environmental impacts of Alternative 4 (Truck Storage Alternative) would be reduced compared to the proposed Project areas of construction and operational air quality, greenhouse gas emissions and energy because construction and operational activity would be greatly reduced as both constructing and operating a truck storage facility would be much less intensive than constructing and operating the proposed Project. It would also significantly reduce demand on utilities and water supplies and generate much less solid waste than the proposed Project. Alternative 4 would greatly reduce the number of vehicle trips when compared to the proposed Project, from 578 total daily trips under the proposed Project to 4 total daily trips under Alternative 4. However, Alternative 4 would not reduce or avoid the significant and unavoidable construction noise impact generated by the proposed Project.

For these reasons, other than the No Project Alternative, Alternative 4 would be considered the environmentally superior alternative.

Table ES-3. Comparison of Project and Alternatives Impacts

Environmental Issue Area	Project	No Project Alternative (Alternative 1)	Reduced Density Alternative (Alternative 2)	Self-Storage Only Alternative (Alternative 3)	Truck-Storage Lot Alternative (Alternative 4)
Air Quality	Less than Significant with Mitigation	No Impact	Less than Significant with Mitigation	Less than Significant with Mitigation	Less than Significant with Mitigation
Cultural Resources	Less than Significant with Mitigation	No Impact	Less than Significant with Mitigation	Less than Significant with Mitigation	Less than Significant with Mitigation
Energy	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant
Geology and Soils	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant
Greenhouse Gas Emissions	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant
Hazards and Hazardous Materials	Less than Significant with Mitigation	No Impact	Less than Significant with Mitigation	Less than Significant with Mitigation	Less than Significant with Mitigation

Table ES-3. Comparison of Project and Alternatives Impacts

Environmental Issue Area	Project	No Project Alternative (Alternative 1)	Reduced Density Alternative (Alternative 2)	Self-Storage Only Alternative (Alternative 3)	Truck-Storage Lot Alternative (Alternative 4)
Hydrology and Water Quality	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant
Land Use and Planning	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant
Noise	Significant and Unavoidable	No Impact	Significant and Unavoidable	Significant and Unavoidable	Significant and Unavoidable
Transportation	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant
Tribal Cultural Resources	Less than Significant with Mitigation	No Impact	Less than Significant with Mitigation	Less than Significant with Mitigation	Less than Significant with Mitigation
Utilities and Service Systems	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant

ES.9 References

Randymajors Research Hub. 2024. Randymajors Research Hub, Section Township Range. Accessed June 25, 2024. https://www.randymajors.org/township-range-on-google-maps?x=-118.3001470&y=33.8718862&cx=-118.3024472&cy=33.8666410&zoom=13&labels=show&plss=show.

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1 Introduction

This environmental impact report (EIR) has been prepared by the City of Gardena (City) to evaluate potential environmental effects that would result from development of the 1450 Artesia Specific Plan Project (Project or proposed Project). This EIR has been prepared in conformance with the California Environmental Quality Act of 1970 (CEQA) statutes (California Public Resources Code, Section 2100 et. seq., as amended) and its implementing guidelines (14 CCR 15000 et. seq.). The City is identified as the lead agency for the proposed Project under CEQA.

1.1 Summary of the Proposed Project

The proposed Project would involve the construction and operation of a mixed-use development with a total building area of 268,000 square feet and an approximate height of 75 feet, including a self-storage use (three levels totaling 186,000 gross square feet [GSF] with 1,480 storage units over ground floor warehouse/distribution use and a 1,000-square-foot leasing office), a warehouse/distribution use (one level totaling 72,000 GSF with 10 loading docks), and an office/retail use (a mezzanine totaling 10,000 GSF). The Project's proposed 72,000 GSF of warehouse/distribution use includes 10,000 GSF of potential future square footage to account for the potential future acquisition of a 0.23-acre parcel currently occupied by a single residential dwelling unit. Additionally, proposed associated facilities and improvements include perimeter fencing, on-site and perimeter landscaping, lighting, exterior sidewalks, and pavement for on-site parking spaces. Under the Specific Plan, the parking lot area would be used periodically for City-sponsored outdoor events outside of the Project's warehouse/distribution component operating hours. The Project includes construction of a 200 GSF, non-habitable structure on the eastern side of the Project site for storage of special event-related materials by the City.

The Applicant is coordinating with the Atlantic Richfield Company (ARC), which is a responsible party working under the direction of the California Department of Toxic Substances Control (DTSC) to implement a Remedial Action Plan (RAP) by installing an engineered cap, soil vapor probes, and associated infrastructure on part of the Project site before the Applicant commences construction of the proposed Project. The Applicant will undertake measures to protect this remedy and avoid an unreasonable risk of harm to human health and the environment, such as installing soil vapor barrier and ventilation systems beneath the structure to protect building occupants against indoor soil vapor intrusion; recording a land use covenant on the site to prohibit sensitive uses thereon, such as residential uses, but which would permit the proposed Project's commercial and industrial uses; complying with all institutional controls that DTSC may require; and undertaking long-term monitoring and maintenance of the soil vapor barrier and ventilation systems for the proposed Project's building.

Construction of the proposed Project is expected to last approximately 18 months beginning in the spring of 2024 and ending in the fall of 2025. The proposed Project is anticipated to begin operations in Fall of 2025. The Applicant's timing for construction would not interfere with the implementation of the RAP by ARC, nor will ARC's implementation of the RAP interfere with the Applicant's construction and operation of the proposed Project.

1.2 CEQA Environmental Process

CEQA requires preparation of an EIR when there is substantial evidence supporting a fair argument that a proposed Project may have a significant effect on the environment. The purpose of an EIR is to provide decision makers, public agencies, and the general public with an objective and informational document that fully discloses the environmental effects of a proposed Project. The EIR process is intended to facilitate the objective evaluation of potentially significant direct, indirect, and cumulative impacts of a proposed Project, and to identify feasible mitigation measures and alternatives that would reduce or avoid the proposed Project's significant effects. In addition, CEQA specifically requires that an EIR identify those adverse impacts determined to be significant after mitigation.

In accordance with the CEQA Guidelines, an Initial Study (IS) and Notice of Preparation (NOP) were prepared and distributed to public agencies and organizations. The purpose of the NOP was to provide notification that City plans to prepare an EIR and to solicit input on the scope and content of the EIR. In accordance with CEQA Guidelines Section 15082, the City distributed the IS/NOP to 21 agency and organization contacts. The IS/NOP was also filed with the State Clearinghouse and the County Clerk on June 8, 2023. Additionally, the City sent the IS/NOP to addresses within a 300-foot buffer of the Project site. An electronic copy of the IS/NOP was also made available on the City's website. In response to the IS/NOP, eight written comment letters were received by the City. These letters and the IS/NOP are included in Appendix A of this EIR.

A public scoping meeting was held on June 22, 2023 at 6:00 p.m. at the City of Gardena City Council Chambers, located at 1700 West 162nd Street, Gardena, California 90247. Information regarding the scoping meeting was included in the NOP, which was widely distributed, as described above. The purpose of this meeting was to share information regarding the proposed Project and the environmental review process and to receive written comments regarding the scope and content of the environmental analysis to be addressed in the EIR. Approximately seven people attended the scoping meeting. A summary of the proposed Project and the CEQA process was presented at the meeting. Attendees at the scoping meeting were informed that verbal comments would not be recorded at the meeting and were encouraged to also submit written comments. Therefore, only written comments received during the scoping period were entered into the record.

The Initial Study prepared for the Project (Appendix A) determined that the following resource areas did not have the potential to result in significant impacts: aesthetics, agriculture and forestry resources, biological resources, mineral resources, population and housing, public services, recreation, and wildfire. As such, these issue areas are not discussed in this EIR. The issue areas analyzed in detail in this EIR consist of air quality, cultural resources, energy, geology and soils, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, land use and planning, noise, transportation, tribal cultural resources, and utilities and service systems.

This draft EIR is being circulated for 45 days for public review and comment. The timeframe of the public review period is identified in the notice of availability attached to this draft EIR. During this period, comments from the general public, organizations, and agencies regarding environmental issues analyzed in the draft EIR and the draft EIR's accuracy and completeness may be submitted to:

Amanda Acuna, Senior Planner
City of Gardena Community Development Department
1700 West 162nd Street
Gardena, California 90247
Email: aacuna@cityofgardena.org.
(Enter "1450 Artesia Specific Plan EIR Public Comments" in the subject line.)

General questions about this EIR and the EIR process should also be directed to the email address above. The City will prepare written responses to comments received that raise significant environmental issues, if the comments are submitted in writing and postmarked or emailed during the comment period identified in the notice of availability.

Prior to approval of the proposed Project or an alternative to the proposed Project, the City, as the lead agency and decision-making entity for the Project, is required to certify that this EIR has been completed in accordance with CEQA, that the proposed Project has been reviewed and the information in this EIR has been considered, and that this EIR reflects the independent judgment of the City. CEQA also requires the City to adopt "findings" with respect to each significant environmental effect identified in the EIR (California Public Resources Code, Section 21081; CEQA Guidelines Section 15091). For each significant effect, CEQA requires the approving agency to make one or more of the following findings:

- The proposed Project has been altered to avoid or substantially lessen significant impacts identified in the Final EIR.
- The responsibility to carry out such changes or alterations is under the jurisdiction of another agency.
- Specific economic, legal, social, technological, or other considerations make infeasible the mitigation measures or alternatives identified in the Final EIR.

If the City concludes that the proposed Project or an alternative to the proposed Project will result in significant effects that cannot be substantially lessened or avoided by feasible mitigation measures and alternatives, the City must adopt a "statement of overriding considerations" prior to approval of the proposed Project (California Public Resources Code, Section 21081[b]; CEQA Guidelines Section 15093). Such statements are intended under CEQA to provide a written means by which the lead agency balances in writing the benefits of the proposed Project and the significant and unavoidable environmental impacts. Where the lead agency concludes that the economic, legal, social, technological, or other benefits outweigh the unavoidable environmental impacts, the lead agency may find such impacts acceptable and approve the proposed Project.

In addition, the City must also adopt a mitigation monitoring and reporting program describing the changes that were incorporated into the proposed Project or made a condition of Project approval in order to mitigate or avoid significant effects on the environment (California Public Resources Code,

Section 21081.6). The mitigation monitoring and reporting program is adopted at the time of Project approval and is designed to ensure compliance during Project implementation. Upon approval of the proposed Project, the lead agency will be responsible for implementation of the proposed Project's mitigation monitoring and reporting program. This document will be attached to the final EIR.

1.3 Organization of the EIR

This EIR is organized as follows:

Executive Summary, summarizes the Project, environmental impacts associated with the Project as well as mitigation measures required to reduce any identified potentially significant impacts.

Chapter 1, Introduction, serves as a forward to this EIR, introducing the Project, the applicable environmental procedures, and the organization of the EIR.

Chapter 2, Project Description, provides a thorough description of the proposed Project elements, the purpose and need for the Project, Project objectives, and required discretionary approvals. This chapter also includes a description of the intended uses of the EIR and public agency actions.

Chapter 3, Environmental Analysis, describes the potential environmental effects of the proposed Project, as well as proposed mitigation measures to reduce or avoid any potentially significant impacts. The discussion in Chapter 3 is organized by 12 environmental issue areas:

- Air Quality
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Transportation
- Tribal Cultural Resources
- Utilities and Service Systems

For each environmental issue area, the analysis and discussion are generally organized into eight subsections as described below:

- **Environmental Setting –** This subsection describes the physical environmental conditions in the vicinity of the proposed Project at the time of publication of the NOP. The environmental setting establishes the baseline conditions, which were used by the City to determine whether specific Project-related impacts would be significant.
- **Relevant Plans, Policies, and Ordinances –** This subsection describes the regulatory setting applicable to the environmental issue area and the proposed Project at the time of publication of the NOP.
- **Thresholds of Significance –** This subsection identifies a set of thresholds by which the level of impact is determined.
- **Methodology –** This subsection describes how the analysis was conducted.

- **Impact Analysis –** This subsection provides a detailed analysis regarding the environmental effects of the proposed Project and whether the impacts of the proposed Project would meet or exceed the significance thresholds.
- **Mitigation Measures –** This subsection identifies potentially feasible mitigation measures that would avoid or substantially reduce significant adverse Project impacts.
- **Level of Significance After Mitigation –** This subsection discusses whether Project-related impacts would be reduced to below a level of significance with implementation of the mitigation measures identified in the EIR. If applicable, this subsection also identifies any residual significant and unavoidable adverse effects of the proposed Project that would result even with implementation of mitigation measures.
- **Cumulative Effects –** This subsection assesses whether the impact of the proposed Project taken together with other projects in the area may contribute to a larger impact/effect.
- **References** – In addition to the eight subsections listed above, full citations for all referenced documents are included at the end of each section or chapter.

Chapter 4, Other CEQA Considerations, addresses effects found not to be significant, significant environmental effects that cannot be avoided, significant irreversible environmental changes that would result from implementation of the proposed Project, and growth-inducing impacts.

Chapter 5, Alternatives, discusses alternatives to the proposed Project, including a No Project Alternative. This chapter describes the rationale for selecting the range of alternatives discussed in the EIR and identifies the alternatives considered by the City that were rejected from further discussion as infeasible during the scoping process. Chapter 5 also includes a discussion of the environmental effects of the alternatives that were carried forward for analysis and identifies the environmentally superior alternative.

Chapter 6, List of Preparers, gives names and contact information of those responsible for writing this EIR.

Appendices include various technical studies prepared for the proposed Project, as listed in the Table of Contents.

The City, as the lead agency for the proposed Project, is responsible for enforcing and verifying that each mitigation measure is implemented as required. As part of the final EIR process, a mitigation monitoring and reporting program will be prepared.

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2 Project Description

This chapter provides a description of the proposed 1450 Artesia Specific Plan Project, referred to in this document as the proposed Project or Project. Pursuant to Section 15124 of the California Environmental Quality Act (CEQA) Guidelines, this chapter describes the location, objectives, and characteristics of the proposed Project, followed by a statement describing the intended uses of this environmental impact report (EIR).

2.1 Project Overview

The Project is proposed to be developed at 1450 Artesia Boulevard in the City of Gardena (City). The Project would involve the approval of the 1450 Artesia Specific Plan as well as construction and operation of a mixed-use development with a total building area of 268,000 square feet (SF) and an approximate height of 75 feet. The development would include a self-storage use (three levels totaling 186,000 gross square feet (GSF) with 1,480 storage units over the bottom floor warehouse/distribution use and leasing office), an industrial warehouse/distribution use (one level totaling 72,000 GSF with 10 loading docks), and an office/retail use (a mezzanine totaling 10,000 GSF). Additionally, associated facilities and improvements would include perimeter fencing, on-site and perimeter landscaping, lighting, exterior sidewalks, and pavement for on-site parking spaces. Under the Specific Plan, the parking lot area would be used periodically for City-sponsored outdoor events outside of the Project's warehouse/distribution component operating hours ("special events"). The Project includes construction of a 200 GSF, non-habitable structure on the eastern side of the Project site for storage of special event-related materials by the City.

The Project Applicant is coordinating with the Atlantic Richfield Company (ARC), which is a responsible party working under the direction of the California Department of Toxic Substances Control (DTSC) to implement a Remedial Action Plan (RAP) by installing an engineered cap, soil vapor probes, and associated infrastructure on part of the Project site before the Applicant commences construction of the proposed Project. The Applicant will undertake measures to protect this remedy and avoid any unreasonable risk of harm to human health and the environment, including installing soil vapor barrier and ventilation systems beneath the structure to protect building occupants against indoor soil vapor intrusion; recording a land use covenant on the Project site to prohibit sensitive uses thereon, such as residential uses, but which would permit the Project's commercial and industrial uses; complying with all institutional controls that DTSC may require; and undertaking long-term monitoring and maintenance of the soil vapor barrier and ventilation systems for the Project's building. The new structure on the Project site would only overlap with the remediated Haack Rework area. The portion of the Project that overlaps the Haack and Cooper sumps areas would be paved and utilized as a parking lot, which would be located atop ARC's engineered cap.

For analysis purposes, construction of the Project is expected to last approximately 18 months beginning in the Spring of 2024 and ending in the Fall of 2025. The Project is anticipated to be operational in Fall of 2025. The Applicant's timing for construction would not interfere with the implementation of the RAP by ARC, nor will ARC's implementation of the RAP interfere with the Applicant's construction and operation of the Project.

2.2 Project Location

The Project site is located in Gardena, California (City) and is located at the corner of Artesia Boulevard and Normandie Avenue, two major thoroughfares within the City (Figure 2-1, Project Location). The 1450 Artesia Specific Plan would cover approximately 6.33 acres collectively consisting of the sites located on Assessor Parel Numbers 6106-036-010, 6106-036-012, 6106-036-034, 6106-036-035, 6106-036-036, 6106-036-037 (collectively, the "Project site"). The Project site currently contains three industrial structures (8,080 SF, 825 SF, and 3,159 SF), a paved, open area along Artesia Boulevard (APN 6106-036-034), and one occupied residential dwelling unit behind the industrial properties adjacent to the Dominguez Channel located at 1472 West Artesia Boulevard (APN 6106-036-010) (Figure 2-2, Project Footprint).

2.3 Environmental Setting

City of Gardena

The City is approximately 5.9 square miles with a population of approximately 60,000 residents. The City's sphere of influence is limited to the boundaries of the City itself (City of Gardena 2006). The City is located in the inland South Bay region of the Los Angeles metropolitan area and is a transit-oriented city that is regionally accessible by several major freeways including Interstate (I) 405, I-110, I-105 and State Route (SR) 91 (Artesia Boulevard). Artesia Boulevard, an east-west street forming the northern boundary of the Plan area, delivers direct access to the Specific Plan area. Local access to the Project site is also provided from Normandie Avenue, traveling north-south just east of the Project site and Western Avenue, traveling north-south within the vicinity to the west of the Project site (Figure 2-1). Additionally, the City has close proximity to downtown Los Angeles (12 miles), Los Angeles and Long Beach Ports (7 miles), and Los Angeles International Airport (6 miles). The City is bordered by the unincorporated West Athens community and the City of Hawthorne to the north, the cities of Los Angeles and Torrance to the south, the city of Los Angeles to the east, and the cities of Torrance and Hawthorne and Los Angeles County to the west.

Historical Land Uses

Historical use of the Project site began in the 1920's with portions of the site being leased by Moneta Brick Company. Multiple sumps were constructed in support of clay mining operations. By the late 1920's, some of the site was used for growing crops and some residential uses were present. The sumps were filled with sludge consisting of disposal material through the 1950s, including refinery wastes, tank bottom sludges, and rinse water acids and were known as the Copper and Haack properties or Gardena Sumps. The Gardena Sumps include four areas defined as the Cooper North Sump, Cooper South Sump, Haack Sump and Haack Rework Area, as shown in Figure 2-3, Site Contamination. These sumps are the source of the contamination subject to cleanup by ARC under DTSC oversight. Development continued over portions of the sump areas in the following years, including excavations that changed the grade and elevation of the site, as well as construction of parking lots and buildings. The Dominguez Channel was channelized and relocated from north of the Project site to south of the Project site between 1956 and 1958.

Starting in the 1980s, the Department of Health Services (DHS) and Environmental Protection Agency (EPA) Technical Assistance Team (TAT) confirmed the presence of hazardous materials and issued a Remedial Action Order on March 3, 1988. By 1993, the eastern property was capped with a liner under the direction of DTSC. The Cooper sump area (northeastern portion of the Project site) remains vacant and undeveloped while several structures are present on the Haack property (northwestern portion of the Project site) (Stantec 2008).

Existing Conditions

Currently, multiple monitoring wells and a cap are located on the Gardena Sumps portion of the Project site as an engineering control, limiting redevelopment options. Remediation and monitoring efforts have been ongoing with the approved Final Remedial Action Plan (RAP) for the site, dated June 30, 2022. The Final RAP details excavation of impacted soils on a portion of the site, known as the Haack Rework Area, relocation of those contaminated soils to another portion of the site, known as the Cooper Sumps area, and installation of an engineered cap with a specialized geosynthetic cover and clean soil cover over the Haack Sump and Cooper Sumps. The remediation will be completed prior to the start of Project construction. The Final RAP includes provisions for a legal land use covenant to limit future uses of the site as well as long-term monitoring and maintenance of the cap and underlying groundwater. The Project structure would only overlap with the remediated Haack Rework area. The portion of the Project site that overlaps the Haack and Cooper sumps areas would be paved and utilized exclusively as a parking lot, which would be located atop the cap implemented as part of the DTSC-approved Final RAP.

The northwestern portion of the Project site, which overlaps with the Haack property, currently contains three warehouses (8,080 SF, 825 SF, and 3,159 SF) and a variety of trailer-type storage structures that house several small businesses, including a U-Haul rental agency, a metal fabricating shop, a sandblasting and painting company and an auto body repair shop (Appendix G3). The southern portion of the Project site contains one occupied residential dwelling unit.

Surrounding Land Uses

Land uses surrounding the Project site include a strip mall with a variety of retail and fast-casual restaurant uses to the north of the Project site across Artesia Boulevard with multi-family and single-family residential uses located north of the strip mall. The eastern edge of the Project site is bounded by a Southern Pacific Railroad line. To the east of the Project site across Normandie Avenue is another strip mall with a variety of retail, fast food and fast-casual restaurant uses. A row of single-family homes is located south of this strip mall across Normandie Boulevard. Residential townhome units are located to the west of the Project site with another strip mall farther west. The southern side of the Project site is bounded by the Los Angeles County Department of Public Works Dominguez Flood Channel. An equestrian stable is located south of the channel, which does not abut the Project site. Properties to the north of the Project site, across Artesia Boulevard, are zoned C-3, General Commercial. Properties to the west are zoned Artesia Mixed Use and properties to the south and the immediate east along Normandie Avenue are zoned O, Official (City of Gardena 2023).

Surrounding Circulation Network

Roadways

The Project site is located at the southwest corner of Artesia Boulevard and Normandie Avenue. Within the City, Artesia Boulevard is an east-west six-lane major arterial. At the eastern edge of the City, Artesia Boulevard becomes the Artesia Freeway (SR-91), which is an east–west freeway that connects the South Bay to north Orange County and the Inland Empire. West of the City, Artesia Boulevard continues toward the coast where it eventually intersects with Highway 1 in the City of Hermosa Beach. In the Project area, sidewalks are provided on both sides of the road.

Normandie Avenue is a north–south four-lane major collector that has its northern terminus at Franklin Avenue near Griffith Park. Its southern terminus occurs where it forks into Palos Verdes Drive North and North Gaffey Street in Harbor City.

Transit

GTrans provides local bus service within the City, with several routes operating near the Project site. Torrance Transit, Beach Cities Transit, Long Beach Transit and Culver City Bus offer connections to GTrans lines. Regional bus lines operated by LA County Metro (Metro) also offer connections to GTrans (GTrans 2023a). The Harbor Gateway Transit Center along the Metro J line busway is located approximately 0.75 miles east of the Project site. Bus routes near the Project site run north and south along South Western Avenue and Vermont Avenue in a loop (Line 2). No bus stops are located along the Project frontage. The nearest bus stop is located west of the Project site at Artesia Boulevard and Denker Avenue or north along Normandie Avenue north of the Artesia Boulevard intersection. GTrans also offers curb-to-curb transportation, using a fleet of wheelchair-accessible vans, for elderly and disabled residents of Gardena, Hawthorne, Alondra Park and Del Aire (GTrans 2023b).

Pedestrian and Bicycle Facilities

The Project area is served by pedestrian and bicycle facilities. Sidewalks are provided on all major streets surrounding the Project site. The City follows the California Department of Transportation's (Caltrans) standards and recognizes four distinct class-types of bikeway facilities: Class I – Off-Street Paved Bicycle Paths or Trails, Class II – On-Street Striped Bicycle Lanes, Class III – On-Street Shared-Lane Bicycle Routes, and Class IV – Protected Bike Lanes (cycle tracks). A Class III Bike Route is located along Normandie Avenue adjacent to the Project site and connects to other Class III Bike Routes throughout the City (City of Gardena 2020).

2.4 Project Objectives

CEQA Guidelines Section 15124(b) states that the project description of an EIR shall contain "a statement of the objectives sought by the proposed project." Section 15124(b) further states that "the statement of objectives should include the underlying purpose of the project." The underlying purpose of the Project is to develop a warehouse/distribution space, office/retail and self-storage development at an infill location that is being remediated for occupation within a commercial, urbanized area of the City. The proposed Project's specific objectives are as follows:

- Redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor within the City.
- Develop appropriate uses in an area with a legacy of contamination in a manner that protects human health and the environment and allows for continued monitoring of remediated areas
- Produce short-and long-term jobs during the Project's construction and operations phases
- Generate property and sales tax revenues for the City to enhance its services to the community and infrastructural improvements
- Provide the City a substantial monetary public benefit to the City's General Fund
- Provide the City with an outdoor venue to hold community events

2.5 Proposed Project

The following sections describe the proposed Project, including Project components, construction schedule and operations as well as a discussion of post-remediation safeguards and monitoring.

2.5.1 Project Components

The Project includes redevelopment of mixed-use property comprised of a 268,000 gross-square-foot (GSF) building with associated surface parking and landscaping and circulation improvements. The proposed development would contain a self-storage use of three levels totaling 186,000 GSF with up to 1,480 storage units over ground floor warehouse and 1,000-square-foot leasing office), an industrial warehousing use (one level totaling 72,000 GSF plus 10 loading docks), and an office/retail use (a mezzanine totaling 10,000 GSF). Other Project improvements include perimeter fencing, on-site and perimeter landscaping, lighting and exterior sidewalks, a 90-foot driveway with a raised separation median on Artesia Boulevard and 124 automobile parking stalls, including six accessible spaces, five electric vehicle (EV) charging station spaces, and 19 electric vehicle (EV)-ready spaces The proposed Project components are shown on Figure 2-4, Site Plan.

Building/Uses

The Project includes construction of a 268,000-GSF building with a maximum height of 75 feet, which would contain self-storage, warehouse/distribution and office/retail uses. Architectural renderings of the building are shown in Figure 2-5, Architectural Features. The self-storage use would be located on the top three levels with a total of 186,000 GSF and up to 1,480 storage units. The warehouse/distribution use would be located on the ground floor with a total of 72,000 GSF and 10 loading docks. A 10,000-GSF mezzanine would contain office/retail use. The building would be designed in compliance with the California Green Building Standards Code (CALGreen).

Because the distribution use and warehouse use would utilize the same 72,000 GSF, for convenience sake the term "warehouse" is used throughout the document to refer to both types of uses of the space.

Parking

Parking would be located along the northeastern portion of the Project site. CalGreen includes specific parking requirements for bicycle parking, designated parking for clean air vehicles, EV charging stations, and other parking requirements. The Project would include a total of 124 automobile parking stalls.

Landscape and Streetscape

The Project would include aesthetically pleasing and drought-tolerant landscaping (Figure 2-6, Landscape Plan). The Project's streetscape improvements would include a combination of shrubs and trees along the frontage of both Artesia Boulevard and the eastern edge of the property as well as within the Project site.

The landscaping would be layered with regionally adapted plants that minimizing water use. The Project would be consistent with the state and City water efficient landscape ordinances, and a minimum of 75% of the plantings would be water efficient. The total landscaped area is approximately 32,473 SF (or approximately 12% of the total Project site area) and 66% of the total paved area utilized for driveways and open parking areas. Water-wise landscaping principles, including a low percentage of water-thirsty plants, smart irrigation controllers, drip irrigation, and bark mulch to slow evapotranspiration and weed germination would be employed.

Circulation Improvements and Pedestrian Access

The Project would include two curb-cuts – one for right turn in, and one for right turn out driveways along Artesia Boulevard located approximately at the northwest corner of the Project site. Local vehicular access to the Project site would be provided via one 35-foot driveway from Artesia Boulevard. A separate 35-foot exit driveway travel lane would be adjacent to the entrance divided by a 20-foot landscape divide (Figure 2-7, Circulation Plan: Vehicular Access). The Project driveway would only serve the Project. Trucks would access the Project similar to vehicular access with ingress within the northwest portion of the Project with circulation continuing along the western to southern edge of the property and into the loading docks. Trucks would exit the loading dock area heading north within the parking lot with egress back through the northwest of Project (Figure 2-8a, Circulation Plan: Truck Access). The truck circulation would be a loop around the proposed building with an aim to ease flow of on-site traffic. Per Los Angeles County Fire Department requirements, a 26-foot-wide fire access lane would surround the property structure with direct access to Artesia Boulevard.

During special events, barriers would be erected to separate truck and vehicular traffic. Trucks would exit the same way they come in during special events (Figure 2-8b, Circulation Plan: Truck Access during Special Events).

Pedestrian access to the Project site would be provided from sidewalks located along Artesia Boulevard. Primary pedestrian access would connect to the building lobby on the northern portion of the Project site and to the parking lot within the northeastern portion of the Project site. Areas with loading docks would be gated to prohibit pedestrian access for safety reasons.

Utilities

Stormwater and drainage improvements would include the installation of five storm drain inlets leading to a poly-coated corrugated metal pipe cistern located within the western portion of the Project site. Collected stormwater would be carried to a subsurface retention basin installed downstream of storage for additional volume control and treatment. The basin would screen, separate, and act as biofiltration treatment for Low Impact Development (LID) solution prior to off-site release. No storm drain piping, inlets or supporting infrastructure would be included near the former sumps.

The City Public Works Department is responsible for maintaining the existing sewer lines that provide wastewater collection, conveyance, and management surrounding the property. The Project would include construction of an on-site sewer lateral that would connect to an existing main line within Artesia Boulevard.

Water and fire services are provided to the Project site by a 21-inch cast iron line owned and maintained by the Golden State Water Company. An 8-inch fire water line, 3-inch domestic water line and an irrigation line would be installed on the Project site, which would connect to the existing main line.

2.5.2 Project Construction

Construction of the proposed Project is expected to last approximately 18 months beginning in the Spring of 2024 and ending in the fall of 2025. Construction would occur in phases as shown in Table 2-1, Construction Phasing.

Table 2-1. Construction Phasing

Phase Number	Construction Phase	Number of Days
1	Demolition	66
2	Site Preparation	21
3	Grading	65
4	Building Construction	219
5	Architectural Coating (will overlap Phase 4 by approximately 1 month)	65
6	Paving (will overlap Phase 5 by approximately 1 month)	22

Source: Appendix B1.

2.5.3 Daily Operations

The proposed Project is anticipated to begin operations in fall 2025. The hours of operation would be from 6:00 a.m. to 10:00 p.m. for the self-storage facilities and from 6:00 a.m. to 10:00 p.m.PM weekdays for the warehouse/distribution. The Project is expected to support approximately 40 employees. Daily activities associated with the warehouse/distribution use would include maneuvering forklifts, lift equipment, and large semi-trucks through and around the site and backing into the loading docks. The dock doors would be oriented to face east.

Operations associated with the self-storage office/retail uses would include passenger cars, moving vans, and delivery truck arrivals and departures. The Project is forecast to generate 725 daily trips including 86 AM peak hour trips and 85 PM peak hour trips (Appendix J3).

2.5.4 City Special Events

Under a proposed Development Agreement between the Applicant and the City, the City would be allowed to host various special events on an approximately 36,000-square-foot (0.8-acre) portion of the Project's parking area (over approximately 63 parking spaces) (Figure 2-9, Special Events Site Plan). Special events would occur outside of the Project's warehouse/distribution operation hours when the parking area is not in use, including weekday evening events (between 6:00 p.m.–10:00 p.m.) and weekend events from 7:00 a.m.–10:00 p.m.. The City anticipates hosting several types of medium-size special events, such as food trucks, farmer's markets, car shows, live entertainment, food giveaways, community meetings, health fairs, and mobile vaccination events.

The special events would be held approximately two to three times per month and include up to 250 attendees (Appendix J3).

2.5.5 Site Remediation Protections and Monitoring

As discussed above in Section 2.3, Environmental Setting, the eastern portion of the Project site is contaminated with oil sludge from three sumps, which will be remediated per a DTSC-approved RAP prior to construction and operation of the proposed Project. The RAP proposes excavation of impacted soils on a portion of the site, known as the Haack Rework Area, relocation of those contaminated soils to another portion of the site, known as the Cooper Sumps area, installation of an engineered cap with a specialized geosynthetic cover and clean soil cover over the Haack Sump and Cooper Sumps, and installation of soil vapor probes.

The Project structure would only overlap with the remediated Haack Rework area and would include a soil vapor barrier and ventilation system beneath the structure to protect building occupants against indoor soil vapor intrusion. There would be long-term monitoring and maintenance of the soil vapor barrier and ventilation system. The portion of the Project site that overlaps the Haack and Cooper sumps areas would be paved and utilized as a parking lot, which would be located atop the cap implemented as part of the DTSC-approved RAP.

2.5.6 General Plan and Zoning

In 2004, the City completed a citywide retail analysis that examined retail opportunities within and surrounding the City and summarized the opportunity for retail development at distinct locations within the City. The report found Artesia Boulevard offered a prime location for commercial development to attract quality commercial uses.

The City subsequently changed the General Plan land use designation for the majority of these properties from Industrial to General Commercial during the 2006 General Plan update. Additionally, in 2006 the City adopted the Artesia Corridor Specific Plan (referred to as the Artesia Corridor), to promote revitalization efforts. The Artesia Corridor Specific Plan provided for a mix of residential and

commercial uses. The Project site was designated as the eastern part of Planning Area 4 and Planning Area 5 of the Artesia Corridor Specific Plan. Mixed use residential and commercial has been developed within parts of the Artesia Corridor. However, the Project site was never developed per the Artesia Corridor Specific Plan.

On February 15, 2023, the City Council adopted the 6th Cycle Housing Element for 2021–2029. At the same time, it also adopted Resolution No. 6620 updating the Land Use Plan (Figure 2-10, General Plan Land Use), including changes to the Land Use Map, Urgency Ordinance No. 1847[1] amending the Zoning Code and revising the Zoning, and Resolution No. 6621 adopting a color palette for buildings, fences, and walls. The Resolution and Ordinance also rescinded the Artesia Corridor Specific Plan, changed the land use designation for five of the six areas in the Specific Plan, and rezoned all six Specific Plan areas (Figure 2-11, Zoning). The Project site retained its Specific Plan land use designation, and the zoning has been changed to 1450 Artesia Specific Plan. The Land Use Plan notes that the specific plan will allow for industrial and commercial development. The zoning requires adoption of a specific plan before any development can take place.

2.6 Intended Uses of this EIR

An EIR is a public document used by a public agency to analyze the potential environmental effects of a project and to disclose possible ways to reduce or avoid potentially significant environmental impacts, including alternatives to the proposed project. As an informational document, an EIR does not make recommendations for or against approving a project. The main purpose of an EIR is to inform public agency decision makers and the public about potential environmental impacts of the project (CEQA Guidelines Section 15121). This EIR will be used by the City, as the lead agency under CEQA, in making decisions with regard to the proposed Project described above and the related approvals required for the Project.

Permits and Approvals

The Applicant would obtain all permits and approvals, as required by law. A list of permits or other forms of approval required of the proposed Project is provided in Table 2-2.

Table 2-2. Permits or Other Actions Required

Agency	Jurisdiction	Permit Regulatory Requirement/Approval
State		
State Water Resources Control Board	Responsible Agency	General Construction Activity National Pollutant Discharge Elimination System (NPDES) Permit
Los Angeles County Fire Department	Responsible Agency	Plan check

[1] In addition to the Urgency Ordinance, the same provisions were adopted through the regular zoning procedures as Ordinance No. 1848.

Table 2-2. Permits or Other Actions Required

Agency	Jurisdiction	Permit Regulatory Requirement/Approval
Local		
City of Gardena	Lead Agency	▪ Adoption of the 1450 Artesia Specific Plan ▪ Zone Text Amendment ▪ Development Agreement ▪ Site Plan Review Lot Merger

2.7 References

City of Gardena. 2006. City of Gardena General Plan 2006, Introduction. April 25, 2006. Accessed July 26, 2023. https://cityofgardena.org/wp-content/uploads/2016/04/generalplan1.pdf.

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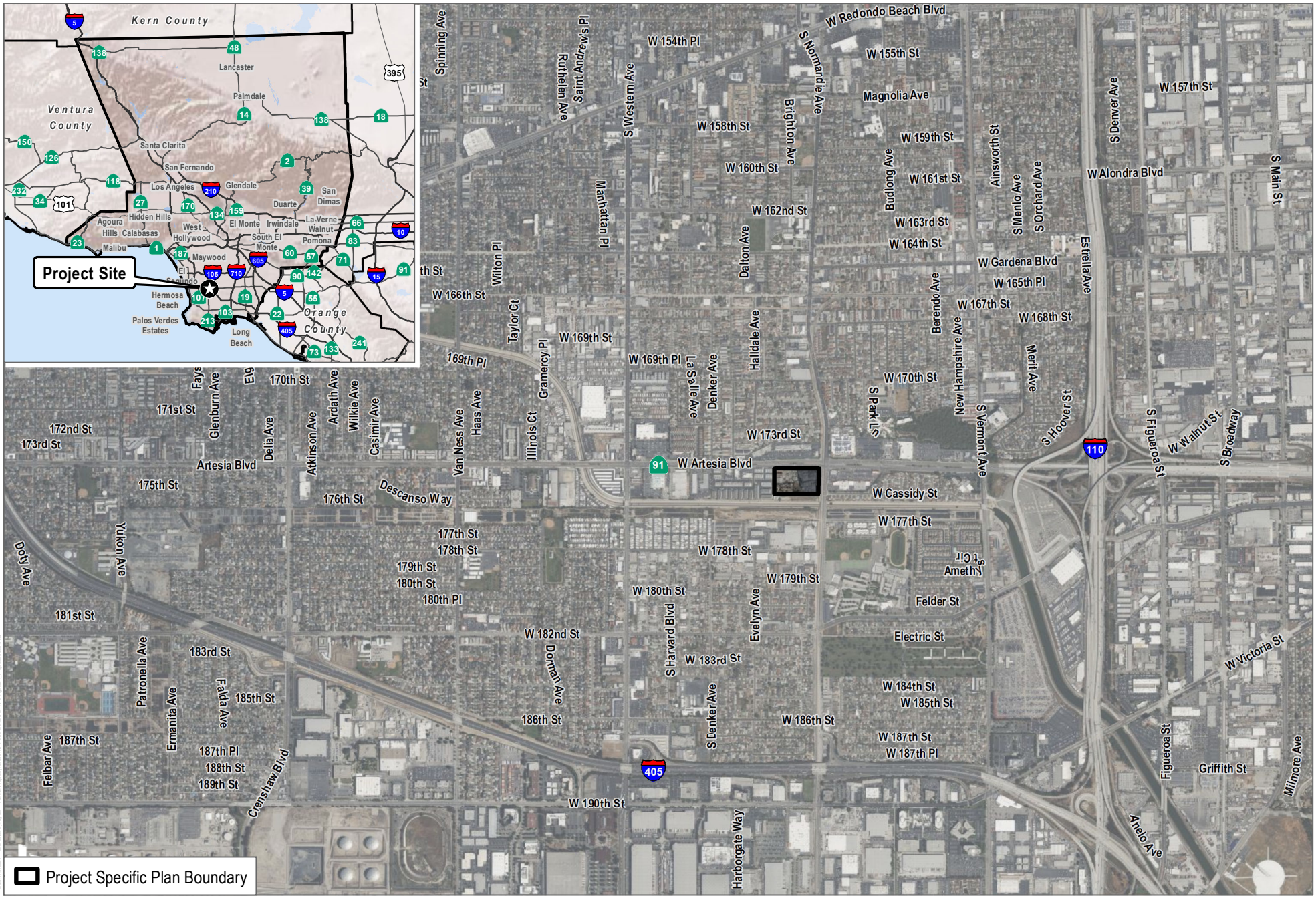
Stantec. 2008. *Gardena Pump Site Revised Draft 2006 Remedial Investigation Report*.



SOURCE: County of Los Angeles; City of Gardena Specific Plan; Open Street Map; Bing Maps

DUDEK

0 1,000 2,000 Feet

FIGURE 2-1

Project Location

1450 Artesia Specific Plan Draft EIR

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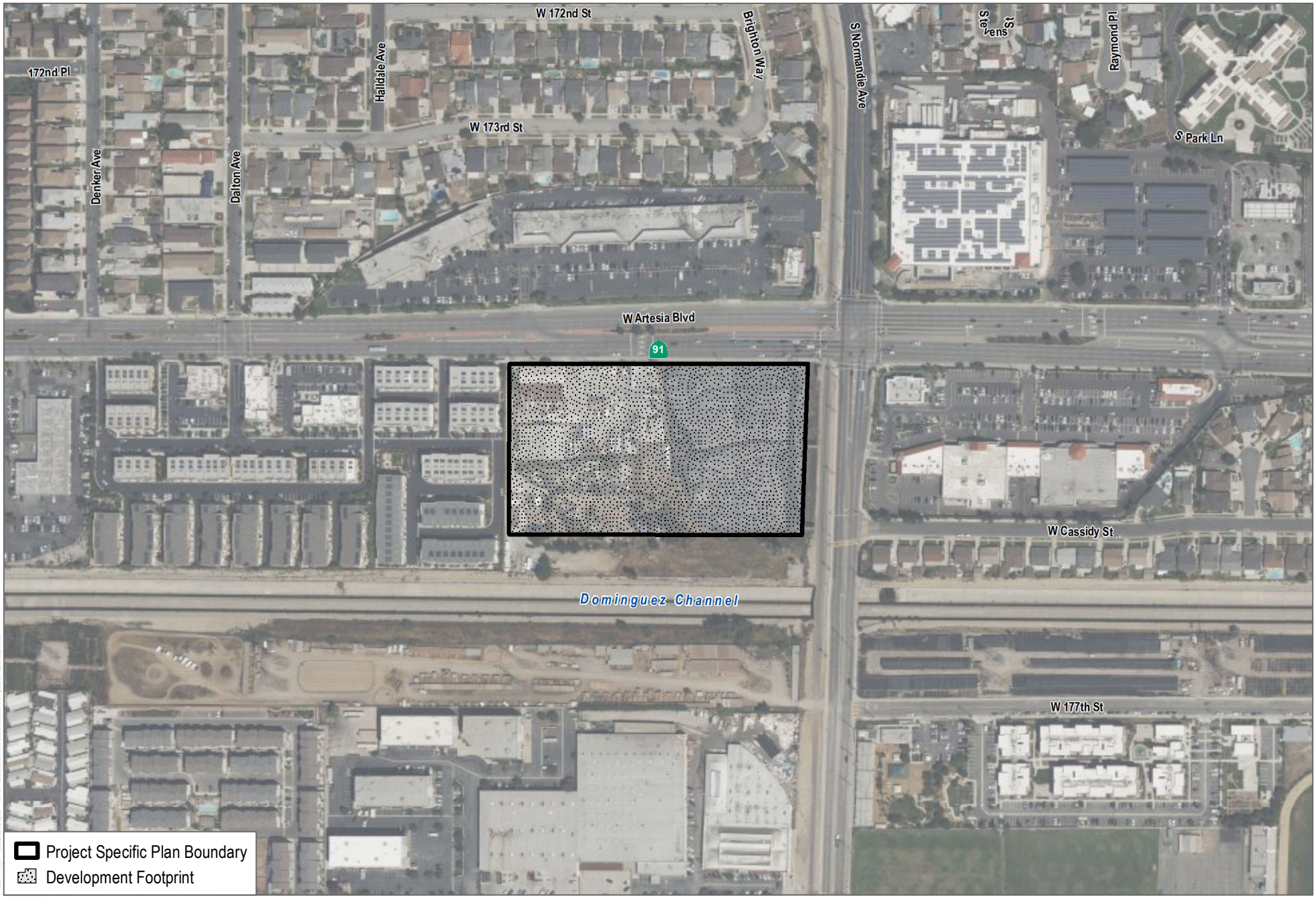

SOURCE: County of Los Angeles; City of Gardena Specific Plan; Open Street Map; USGS NHD; Bing Maps

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FIGURE 2-2

Project Footprint

1450 Artesia Specific Plan Draft EIR

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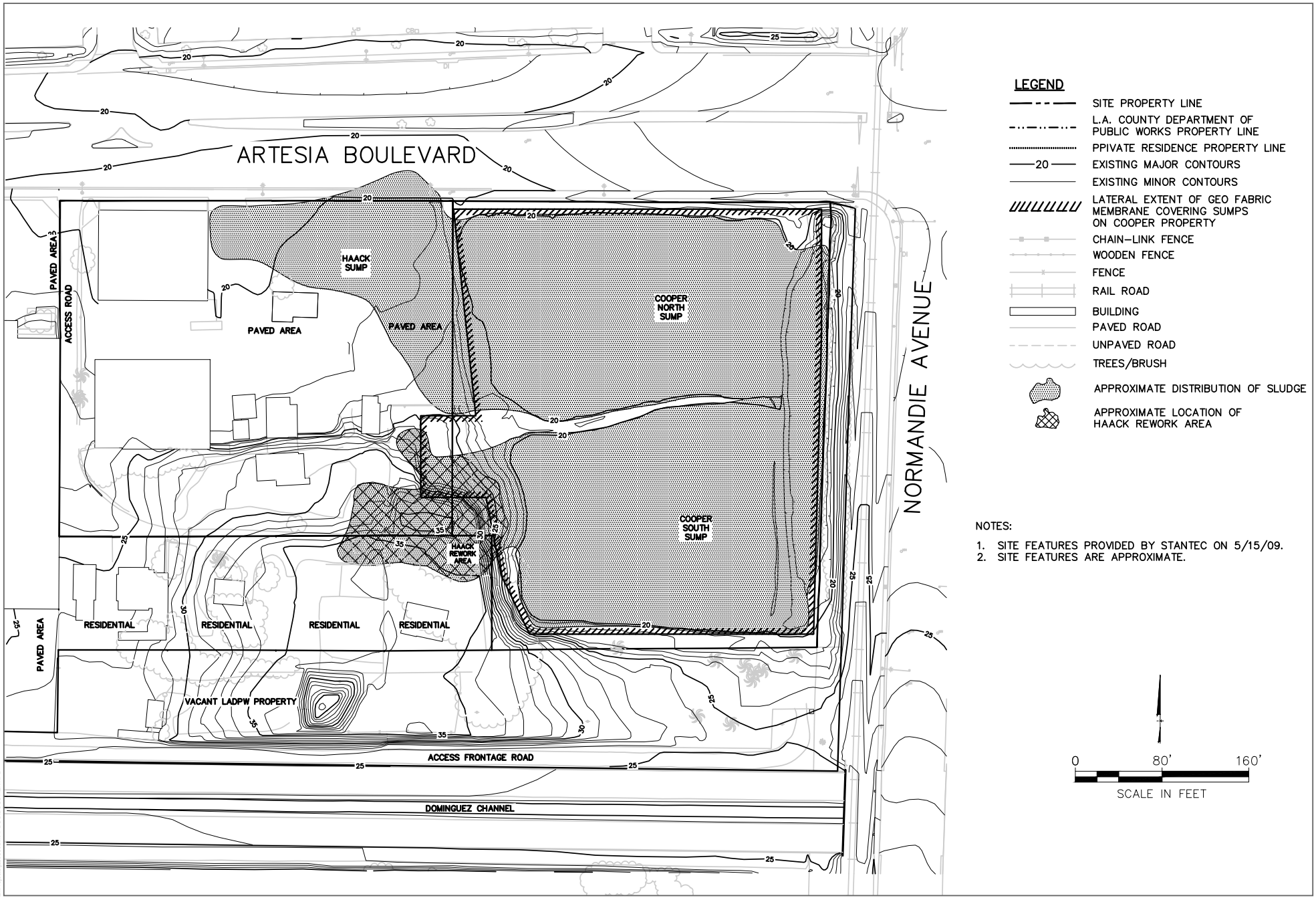

SOURCE: Geosyntec Consultants, Nov. 2020

FIGURE 2-3

Site Contamination

1450 Artesia Specific Plan Draft EIR

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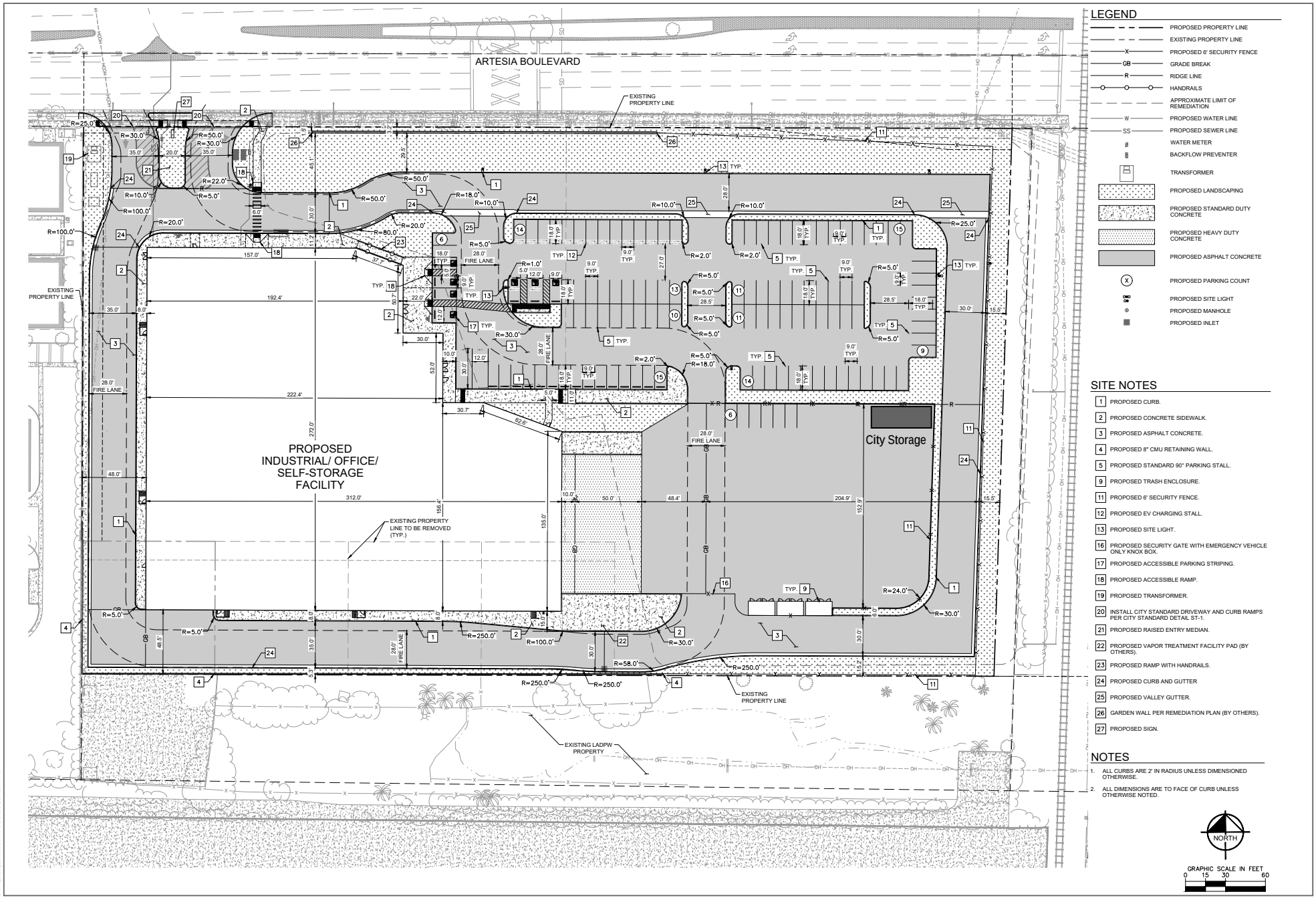

SOURCE: Kimley-Horn

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FIGURE 2-4

Site Plan

1450 Artesia Specific Plan Draft EIR

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SOURCE: May 2023 Draft 1450 Artesia Specific Plan (City of Gardena)

FIGURE 2-5

Architectural Features

1450 Artesia Specific Plan Draft EIR

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SOURCE: Kimley-Horn

FIGURE 2-6

Landscape Plan

1450 Artesia Specific Plan Draft EIR

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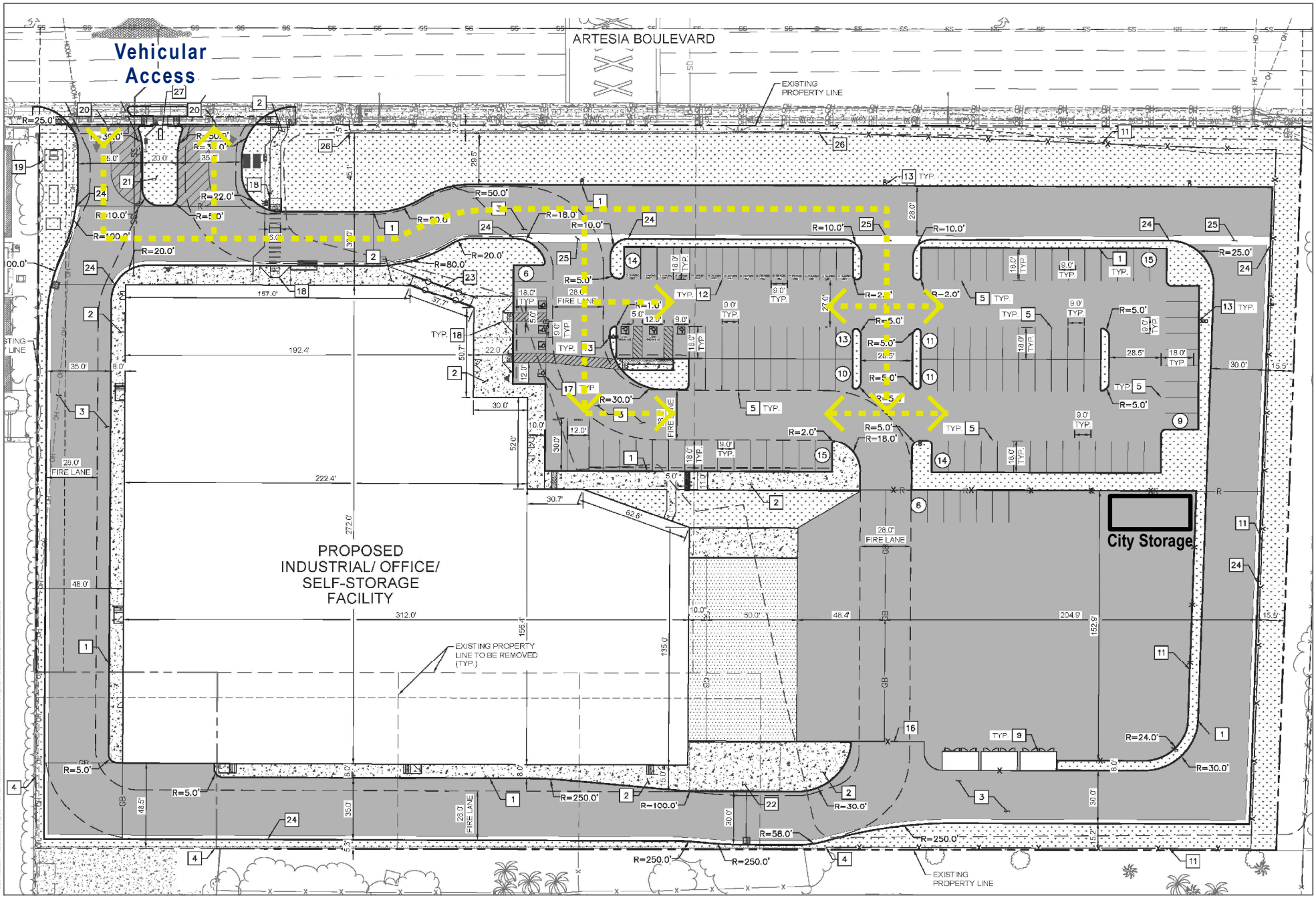

SOURCE: Kimley-Horn; May 2023 Draft 1450 Artesia Specific Plan (City of Gardena)

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FIGURE 2-7

Circulation Plan: Vehicular Access

1450 Artesia Specific Plan Draft EIR

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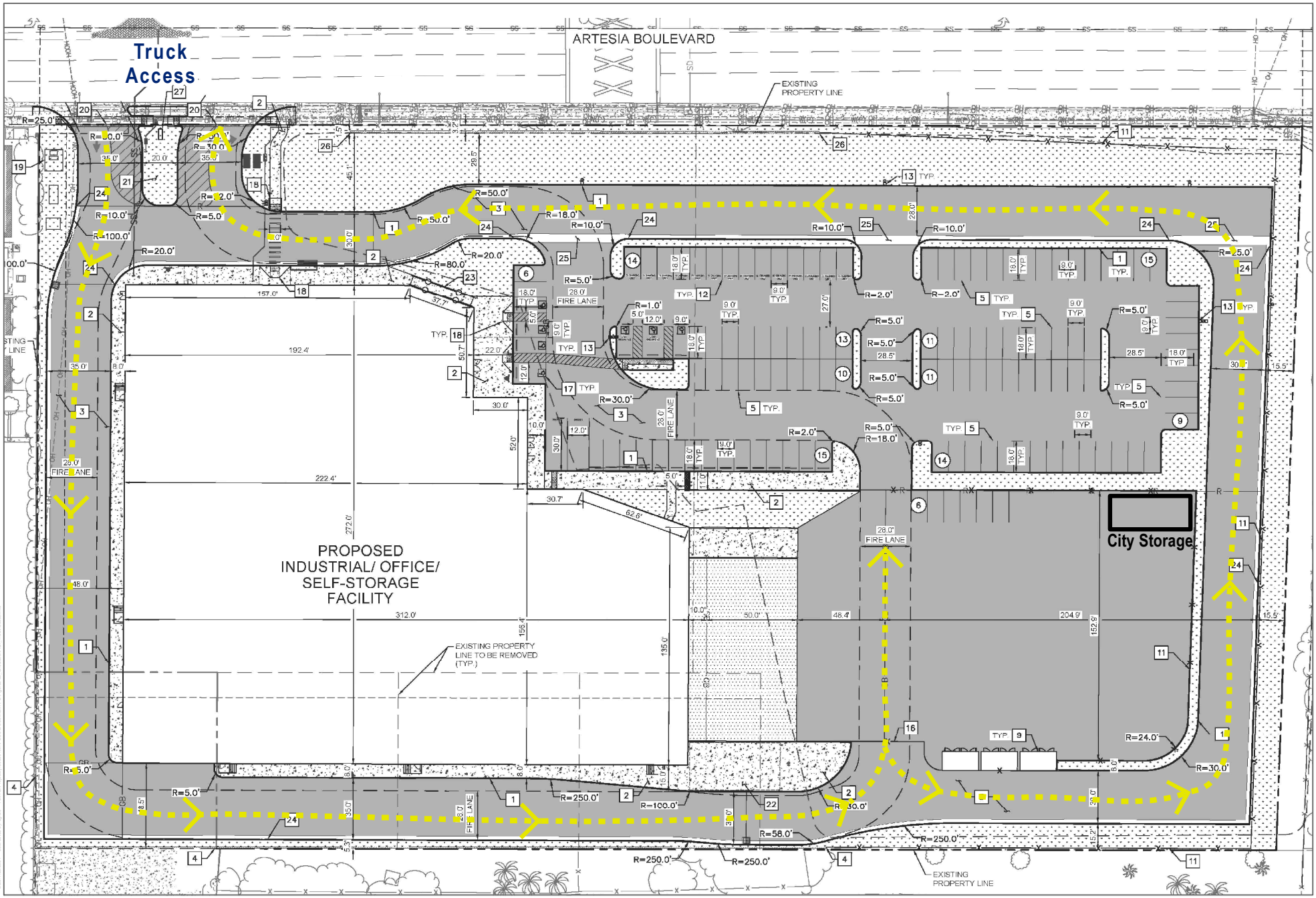

SOURCE: Kimley-Horn; May 2023 Draft 1450 Artesia Specific Plan (City of Gardena)

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FIGURE 2-8a

Circulation Plan: Truck Access

1450 Artesia Specific Plan Draft EIR

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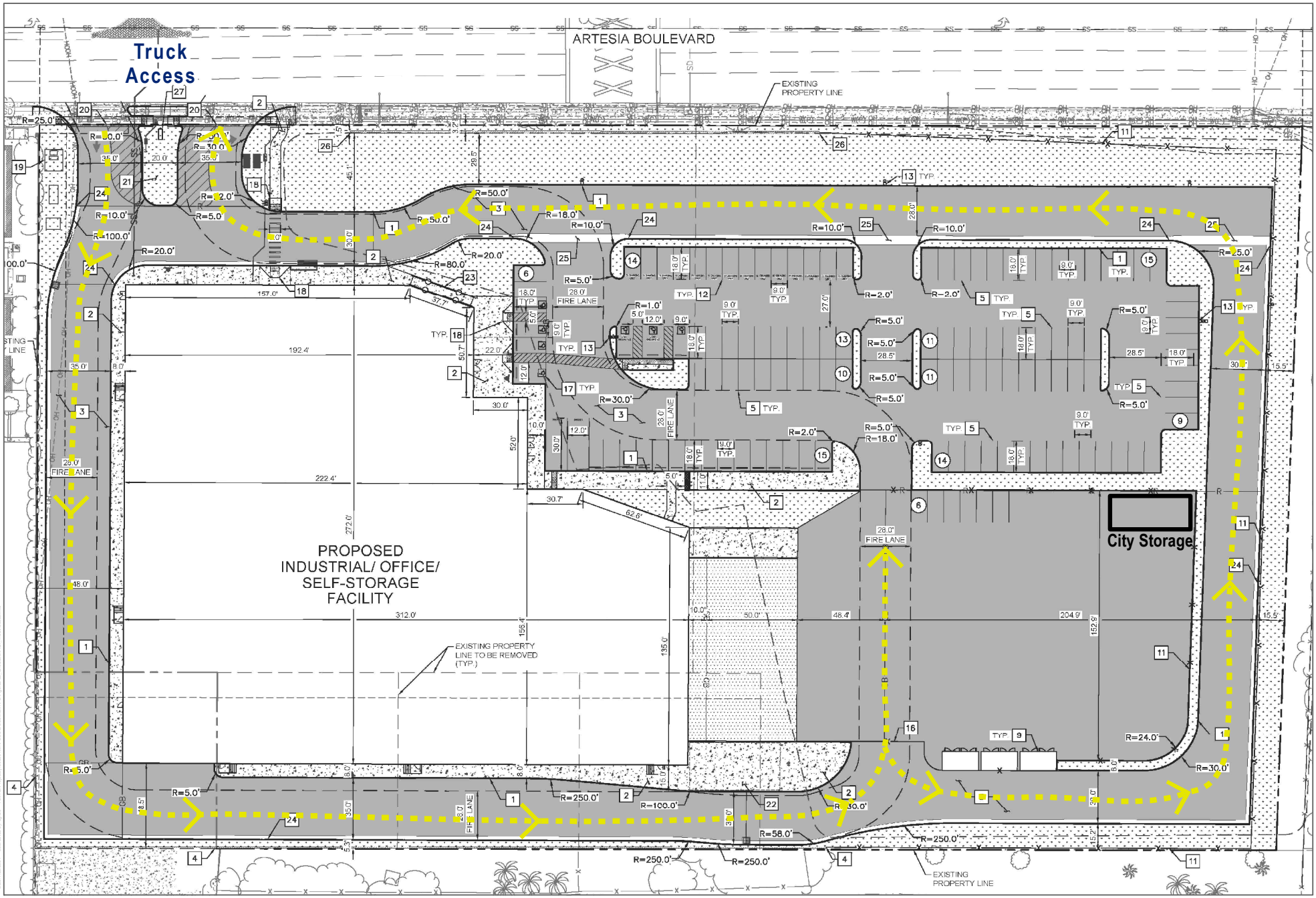

SOURCE: Kimley-Horn; May 2023 Draft 1450 Artesia Specific Plan (City of Gardena)

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FIGURE 2-8a

Circulation Plan: Truck Access

1450 Artesia Specific Plan Draft EIR

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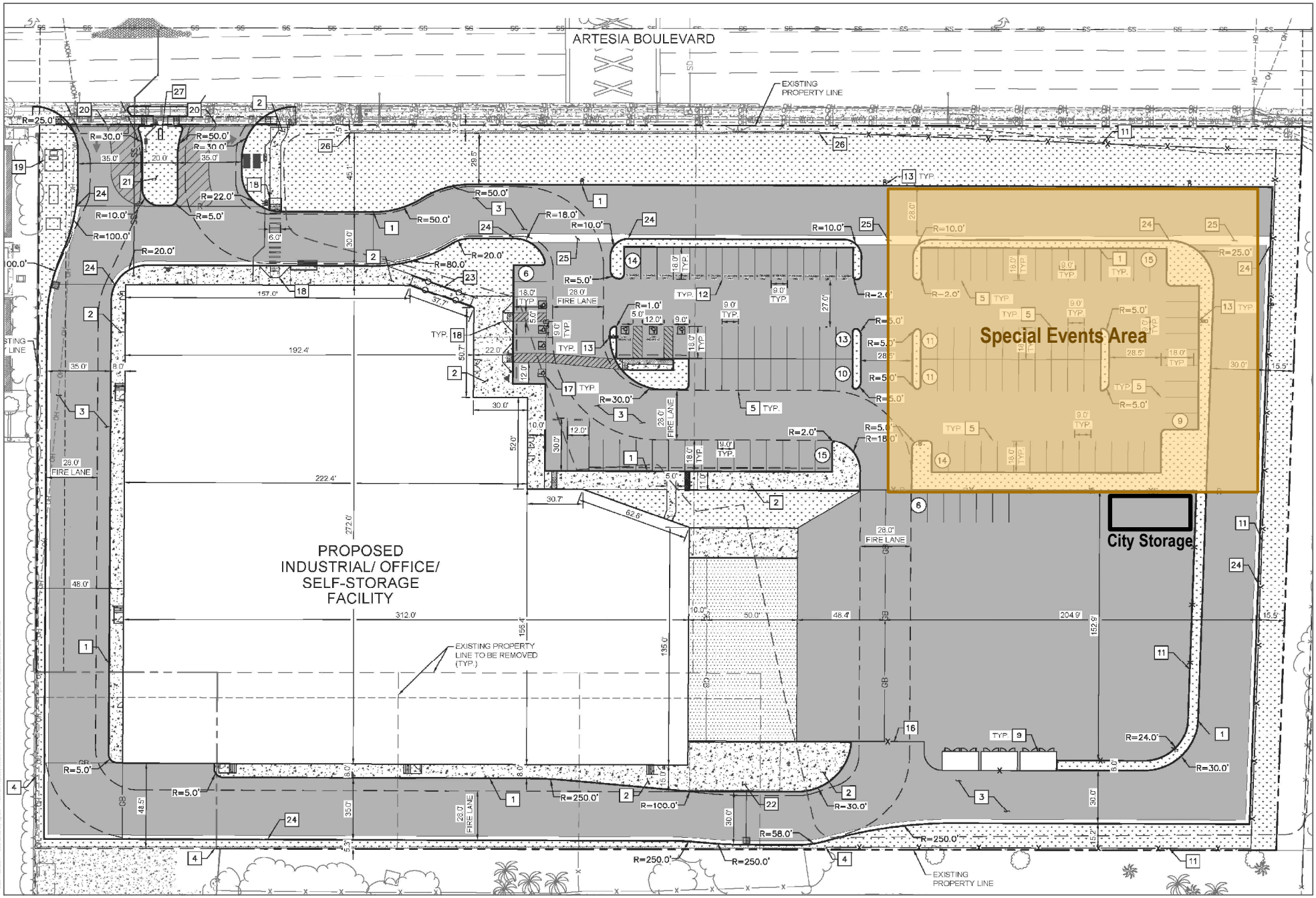

SOURCE: Kimley-Horn; May 2023 Draft 1450 Artesia Specific Plan (City of Gardena)

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FIGURE 2-9

Special Events Site Plan

1450 Artesia Specific Plan Draft EIR

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SOURCE: County of Los Angeles; City of Gardena General Plan 2023; Open Street Map; USGS NHD; Bing Maps

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FIGURE 2-10

General Plan Land Use

1450 Artesia Specific Plan Draft EIR

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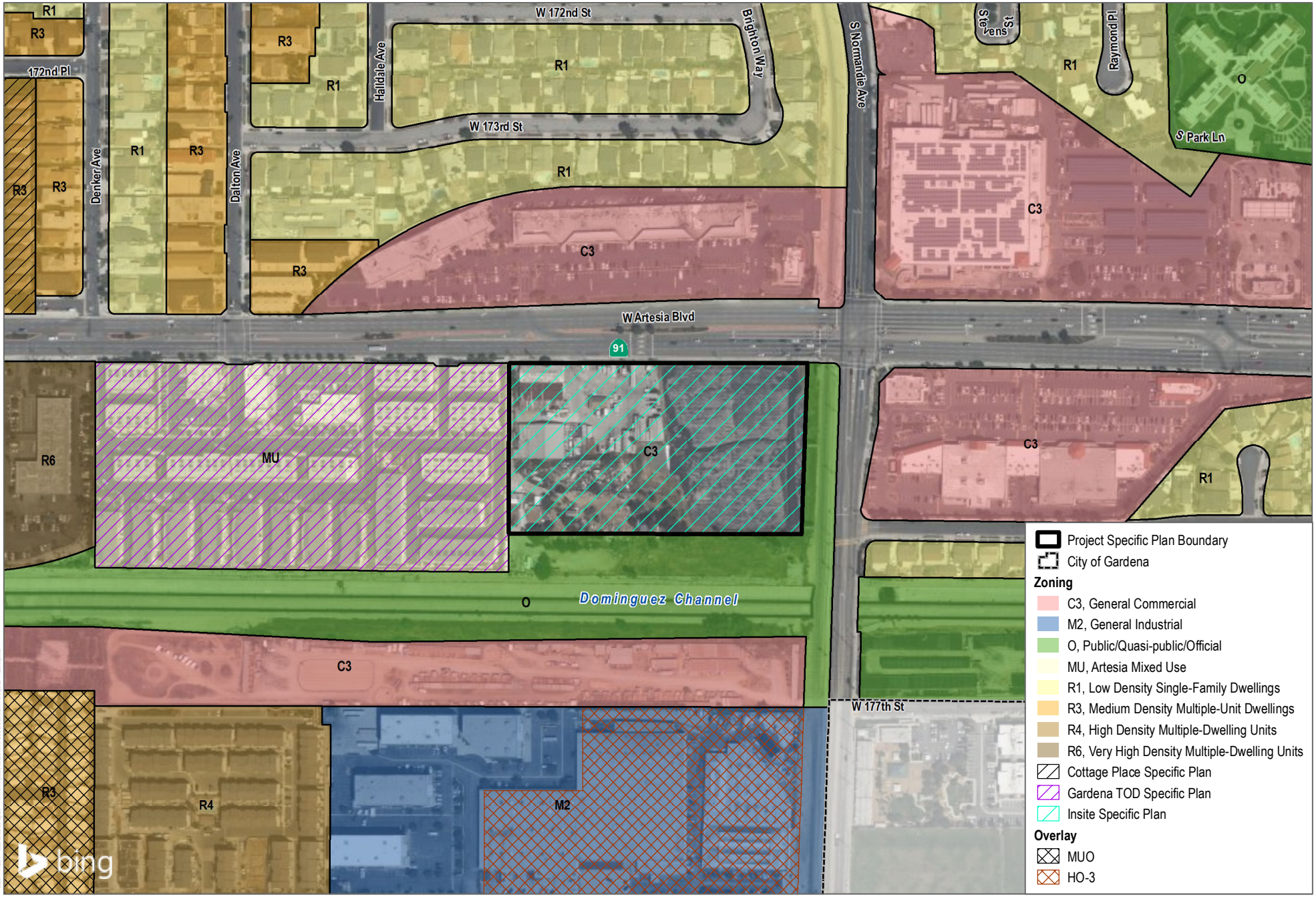

SOURCE: County of Los Angeles; City of Gardena General Plan 2023; Open Street Map; USGS NHD; Bing Maps

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FIGURE 2-11

Zoning

1450 Artesia Specific Plan Draft EIR

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3 Environmental Analysis

The purpose of this Environmental Impact Report (EIR) is to evaluate the potential environmental effects of the proposed 1450 Artesia Specific Plan (Project). Full buildout of the Project, as discussed throughout Chapter 2, Project Description, of the EIR, is assumed in the analysis herein. As such, this EIR evaluates implementation of the Specific Plan at a Project level.

The City of Gardena (City) circulated a Notice of Preparation (NOP) beginning on June 8, 2023, with the public review period ending on July 10, 2023. The NOP was transmitted to the State Clearinghouse, responsible agencies, other affected agencies, and interested parties to solicit issues or potential environmental effects related to the Project. The NOP, Initial Study, and comment letters are contained in Appendix A. Sections 3.1 through 3.12 of the EIR contain the potential environmental impacts analysis associated with implementation of the Project and focus on the following issues:

- 3.1 Air Quality
- 3.2 Cultural Resources
- 3.3 Energy
- 3.4 Geology and Soils
- 3.5 Greenhouse Gas Emissions
- 3.6 Hazards and Hazardous Materials
- 3.7 Hydrology and Water Quality
- 3.8 Land Use and Planning
- 3.9 Noise
- 3.10 Transportation
- 3.11 Tribal Cultural Resources
- 3.12 Utilities and Service Systems

During preparation of the Initial Study/NOP for this EIR, other potential environmental impact areas, such as aesthetics, agriculture/forestry resources, biological resources, mineral resources, public services, recreation, and wildfire were found not to be significant based on the results of the Initial Study. These issues and the analysis for these issues are included in Appendix A, as well as Chapter 4, Other CEQA Considerations, of this EIR.

Technical Studies

Technical studies were prepared in order to accurately analyze air quality/health risk assessments, cultural and historical resources, energy resources, geology and soils/paleontological resources, greenhouse gas emissions, hazards and hazardous materials, hydrology and water quality, noise, transportation impacts, and utilities and service systems and were used in the preparation of this EIR. These documents are identified in the discussions for the individual environmental issues and included as technical appendices to the EIR.

Analysis Format

For each environmental issue area, the analysis and discussion are generally organized into eight subsections as described below:

- **Environmental Setting –** This subsection describes the physical environmental conditions in the vicinity of the proposed Project at the time of publication of the NOP. The environmental setting establishes the baseline conditions, which were used by the City to determine whether specific Project-related impacts would be significant.
- **Relevant Plans, Policies, and Ordinances –** This subsection describes the regulatory setting applicable to the environmental issue area and the proposed Project at the time of publication of the NOP.
- **Thresholds of Significance –** This subsection identifies a set of thresholds by which the level of impact is determined.
- **Methodology –** This subsection describes how the analysis was conducted.
- **Impact Analysis –** This subsection provides a detailed analysis regarding the environmental effects of the proposed Project and whether the impacts of the proposed Project would meet or exceed the significance thresholds.
- **Mitigation Measures –** This subsection identifies potentially feasible mitigation measures that would avoid or substantially reduce significant adverse Project impacts.
- **Level of Significance After Mitigation –** This subsection discusses whether Project-related impacts would be reduced to below a level of significance with implementation of the mitigation measures identified in the EIR. If applicable, this subsection also identifies any residual significant and unavoidable adverse effects of the proposed Project that would result even with implementation of mitigation measures.
- **Cumulative Effects –** This subsection assesses whether the impact of the proposed Project taken together with other projects in the area may contribute to a larger impact/effect.
- **References** – In addition to the eight subsections listed above, full citations for all referenced documents are included at the end of each section or chapter.

Cumulative Setting

In many cases, the impact of an individual project may not be significant, but its cumulative impact may be significant when combined with impacts from other related projects. CEQA Guidelines Section 15355 defines cumulative impacts as "two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts." CEQA Guidelines Section 15130(b) states that "the discussion [of cumulative impacts] need not provide as great detail as is provided for the effects attributable to the project alone." Section 15130(b) further states that a cumulative impacts discussion "should be guided by standards of practicality and reasonableness." The cumulative projects considered for each resource area will differ as the cumulative context varies according to each issue area (for example, the cumulative context for aesthetic impacts would be limited to the surrounding area from which a project can be seen while the cumulative context for hydrology and water quality impacts would be much broader).

Cumulative impacts can also occur from the interactive effects of a single project. For example, the combination of noise and dust generated during construction activities can be additive and can have a greater impact than either noise or dust alone. However, substantial cumulative impacts more often result from the combined effect of past, present, and future projects located in proximity to a proposed project. Thus, it is important for a cumulative impacts analysis to be viewed over time and in conjunction with other related past, present, and reasonably foreseeable future projects, the impacts of which might compound or interrelate with those of the project under review.

As provided by CEQA Guidelines Section 15130(b), the following elements are necessary to an adequate discussion of cumulative impacts:

- Either: (A) a list of past, present, and reasonably anticipated future projects producing related or cumulative impacts, including those projects outside the control of the agency; or (B) a summary of projections contained in an adopted general plan or related planning document that is designed to evaluate regional or area wide conditions. Any such planning document shall be referenced and made available to the public at a location specified by the lead agency.
- A summary of the expected environmental effects to be produced by those projects with specific reference to additional information stating where that information is available.
- A reasonable analysis of the cumulative impacts of the relevant projects. An EIR shall examine reasonable options for mitigating or avoiding any significant cumulative effects of the proposed projects.

Table 3-1 provides a list of these cumulative projects and their associated land use.

Table 3-1. Cumulative Projects

Type	Location	Description	Status	Non-Residential (SF)	Residential (DU)
Commercial	15106 South Western Avenue	Commercial building with drive-thru	Approved but not yet Constructed	3,720	
Residential	1333 West 168th Street	Condominiums	Entitlements have expired		3
Residential	1348 West 168th Street (Normandie Courtyard Project)	Dwelling units, Small Lot Subdivision, 3-story	Entitlements have expired		9
Residential	13919 Normandie Avenue	Dwelling units, Single-Room Occupancy	Under Construction		20
Residential	12850 Crenshaw Boulevard (Transit-	Apartment building	Under Construction		265

Table 3-1. Cumulative Projects

Type	Location	Description	Status	Non-Residential (SF)	Residential (DU)
	Oriented Development Specific Plan Project)				
Residential	1938 West 146th Street	Townhomes	Approved but not yet Constructed		6
Residential	13126 South Western Avenue	Dwelling units, Single-Room Occupancy	Approved but not yet Constructed		121
Residential	2545 Marine Avenue	Townhomes	Under Construction		22
Residential	1031 Magnolia Avenue	Dwelling units	Application Received		6
Live-work	2800 Rosecrans Avenue	Townhomes, 4 Live-work Units	Application Received		20
Industrial	1600 West 135th Street	Warehouse building	Approved but not yet Constructed	190,860	
Industrial	14206 Van Ness Avenue	Redevelopment of Self storage Facility to develop a new 177,573 SF Bldg. and 8,000 SF office Bldg.	Undergoing Environmental Review	185,573	
Residential	16911 South Normandie Avenue	Apartment and Townhomes	Undergoing Environmental Review		403
Mixed-Use	14600 Western Avenue	Apartment building with commercial	Application Received	3,000	196
Residential	1515 West 178th Street (Melia 178th Street Project)	Townhomes	Construction Completed in 2023		114

Table 3-1. Cumulative Projects

Type	Location	Description	Status	Non-Residential (SF)	Residential (DU)
Mixed-Use	1341 West Gardena Boulevard	Apartment building with commercial	Under Construction	3,385	14
Residential	1621 West 147th Street	Townhomes	Under Construction		6
Residential	1335 West 141st Street	Townhomes	Construction Completed in 2023		50
Residential	2129 West Rosecrans Avenue	Townhomes	Construction Completed in 2023		113
Residential	13615 South Vermont Avenue	Townhomes	Construction Completed in 2024		84
Residential	2500–2508 Rosecrans Avenue	Townhomes	Under Construction		53
Residential	15717 and 15725 Normandie Avenue	Townhomes	Under Construction		30
Residential	1610 West Artesia Boulevard	Apartment building	Approved but not yet Constructed		300

Notes: SF = square feet; DU = dwelling units.

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3.1 Air Quality

This section describes the existing air quality conditions of the 1450 Artesia Specific Plan Project (Project) site and vicinity, identifies associated regulatory requirements, evaluates potential impacts, and identifies mitigation measures related to implementation of the proposed Project. Information contained in this section is based on California Emissions Estimator Model (CalEEMod), Version 2022.1, to estimate the Project's criteria air pollutant emissions from both construction and operations, as well as existing land use operation. For the relevant data, refer to the following appendices:

- Appendix B1, Air Quality Analysis, prepared by Kimley-Horn & Associates
- Appendix B2, Health Risk Assessment, prepared by Kimley-Horn & Associates

3.1.1 Existing Conditions

The Project site is located within the City of Gardena (City) within the South Coast Air Basin (SCAB), which includes the non-desert portions of Los Angeles, Riverside, and San Bernardino counties, as well as all of Orange County. The SCAB is on a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean on the southwest and high mountains forming the remainder of the perimeter (SCAQMD 1993). Air quality in this area is determined by natural factors such as topography, meteorology, and climate, in addition to the presence of existing air pollution sources and ambient conditions. These factors along with applicable regulations are discussed below.

3.1.1.1 Climate and Meteorology

The SCAB is part of a semi-permanent high-pressure zone in the eastern Pacific. As a result, the climate is mild and tempered by cool sea breezes. This usually mild weather pattern is occasionally interrupted by periods of extreme heat, winter storms, and Santa Ana winds. The annual average temperature throughout the 6,645-square-mile SCAB ranges from low 60 to high 80 degrees Fahrenheit with little variance. With more oceanic influence, coastal areas show less variability in annual minimum and maximum temperatures than inland areas.

Contrasting the steady pattern of temperature, rainfall is seasonally and annually highly variable. Almost all annual rainfall occurs between the months of November and April. Summer rainfall is reduced to widely scattered thundershowers near the coast, with slightly heavier activity in the east and over the mountains.

Although the SCAB has a semiarid climate, the air closer to the Earth's surface is typically moist because of the presence of a shallow marine layer. Except for occasional periods when dry, continental air is brought into the SCAB by offshore winds, the "ocean effect" is dominant. Periods of heavy fog are frequent and low clouds known as high fog are characteristic climatic features, especially along the coast. Annual average humidity is 70% at the coast and 57% in the eastern portions of the SCAB.

Wind patterns across the SCAB are characterized by westerly or southwesterly on-shore winds during the day and easterly or northeasterly breezes at night. Wind speed is typically higher during the dry summer months than during the rainy winter. Between periods of wind, air stagnation may occur in both the

morning and evening hours. Air stagnation is one of the critical determinants of air quality conditions on any given day. During winter and fall, surface high-pressure systems over the SCAB, combined with other meteorological conditions, result in very strong, downslope Santa Ana winds. These winds normally continue for a few days before predominant meteorological conditions are reestablished.

The mountain ranges to the east affect the diffusion of pollutants by inhibiting the eastward transport of pollutants. Air quality in the SCAB generally ranges from fair to poor and is similar to air quality in most of coastal Southern California. The entire region experiences heavy concentrations of air pollutants during prolonged periods of stable atmospheric conditions.

In addition to the characteristic wind patterns that affect the rate and orientation of horizontal pollutant transport, two distinct types of temperature inversions control the vertical depth through which air pollutants are mixed. These inversions are the marine inversion and the radiation inversion. The height of the base of the inversion at any given time is called the "mixing height." The combination of winds and inversions is a critical determinant leading to highly degraded air quality for the SCAB in the summer and generally good air quality in the winter.

3.1.1.2 Pollutants and Effects

Criteria Air Pollutants

The air pollutants emitted into the ambient air by stationary and mobile sources are regulated by state and federal laws. These regulated air pollutants are known as "criteria air pollutants" and are categorized into primary and secondary pollutants.

Primary air pollutants are emitted directly from sources. Carbon monoxide (CO), reactive organic gases (ROG), nitrogen oxide (NO_X), sulfur dioxide (SO_2), coarse particulate matter (PM_{10}), fine particulate matter ($PM_{2.5}$), and lead are primary air pollutants. Of these, CO, NO_X, SO_2, PM_{10}, and $PM_{2.5}$ are primary criteria pollutants. ROG and NO_X are criteria pollutant precursors and form secondary criteria pollutants through chemical and photochemical reactions in the atmosphere. For example, the criteria pollutant ozone (O_3) is formed by a chemical reaction between ROG and NO_X in the presence of sunlight. O_3 and nitrogen dioxide (NO_2) are the principal secondary pollutants. Sources and health effects commonly associated with criteria pollutants are summarized in Table 3.1-1.

Table 3.1-1. Air Contaminants and Associated Public Health Concerns

Pollutant	Major Man-Made Sources	Human Health Effects
Particulate Matter (PM_{10} and $PM_{2.5}$)	Power plants, steel mills, chemical plants, unpaved roads and parking lots, wood-burning stoves and fireplaces, automobiles and others.	Increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing; asthma; chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility.
Ozone (O_3)	Formed by a chemical reaction between reactive organic gases/volatile organic	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing, and pain

Table 3.1-1. Air Contaminants and Associated Public Health Concerns

Pollutant	Major Man-Made Sources	Human Health Effects
	compounds (ROG or VOC)[1] and nitrogen oxides (NO_X) in the presence of sunlight. Motor vehicle exhaust industrial emissions, gasoline storage and transport, solvents, paints and landfills.	when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield.
Sulfur Dioxide (SO_2)	A colorless gas formed when fuel containing sulfur is burned and when gasoline is extracted from oil. Examples are petroleum refineries, cement manufacturing, metal processing facilities, locomotives, and ships.	Respiratory irritant. Aggravates lung and heart problems. In the presence of moisture and oxygen, sulfur dioxide converts to sulfuric acid, which can damage marble, iron and steel. Damages crops and natural vegetation. Impairs visibility. Precursor to acid rain.
Carbon Monoxide (CO)	An odorless, colorless gas formed when carbon in fuel is not burned completely; a component of motor vehicle exhaust.	Reduces the ability of blood to deliver oxygen to vital tissues, affecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.
Nitrogen Dioxide (NO_2)	A reddish-brown gas formed during fuel combustion for motor vehicles and industrial sources. Sources include motor vehicles, electric utilities, and other sources that burn fuel.	Respiratory irritant; aggravates lung and heart problems. Precursor to O_3. Contributes to global warming and nutrient overloading, which deteriorates water quality. Causes brown discoloration of the atmosphere.
Lead (Pb)	Lead is a metal found naturally in the environment as well as in manufactured products. The major sources of lead emissions have historically been motor vehicles (such as cars and trucks) and industrial sources. Due to the phase out of leaded gasoline, metals processing is the major source of lead emissions to the air today. The highest levels of lead in air are generally found near lead smelters. Other stationary sources are waste incinerators, utilities, and lead-acid battery manufacturers.	Exposure to lead occurs mainly through inhalation of air and ingestion of lead in food, water, soil, or dust. It accumulates in the blood, bones, and soft tissues and can adversely affect the kidneys, liver, nervous system, and other organs. Excessive exposure to lead may cause neurological impairments such as seizures, mental retardation, and behavioral disorders. Even at low doses, lead exposure is associated with damage to the nervous systems of fetuses and young children, resulting in learning deficits and lowered IQ.

Table 3.1-1. Air Contaminants and Associated Public Health Concerns

Pollutant	Major Man-Made Sources	Human Health Effects
Sulfates	Sulfates are the fully oxidized form of sulfur, which are produced from reactions of SO_2 in the atmosphere and typically occur in combination with metals or hydrogen ions.	Can result in respiratory impairment as well as reduced visibility.
Vinyl Chloride	A colorless gas with a mild, sweet odor, which has been detected near landfills, sewage plants, and hazardous waste sites, due to the microbial breakdown of chlorinated solvents.	Short-term exposure to high levels of vinyl chloride in air can cause nervous system effects, such as dizziness, drowsiness, and headaches. Long-term exposure through inhalation can cause liver damage, including liver cancer.
Hydrogen Sulfide	A colorless and flammable gas that has a characteristic of rotten eggs. Sources include geothermal power plants, petroleum refineries, sewers, and sewage treatment plants.	Exposure to hydrogen sulfide can result in nuisance odors, as well as headaches and breathing difficulties at higher concentrations.
Visibility-Reducing Particles	Any particles in the air that obstruct the range of visibility. Sources are the same for $PM_{2.5}$.	Effects of reduced visibility can include obscuring the viewshed of natural scenery, reducing airport safety, and discouraging tourism.
Volatile Organic Compounds	Organic gases that are formed from hydrogen and carbon and sometimes other elements. Hydrocarbons that contribute to formation of O_3 are referred to and regulated as VOCs (also referred to as reactive organic gases). Combustion engine exhaust, oil refineries, and fossil-fueled power plants are the sources of hydrocarbons. Other sources include evaporation from petroleum fuels, solvents, dry cleaning solutions, and paint.	The primary health effects of VOCs result from the formation of O_3 and its related health effects. High levels of VOCs in the atmosphere can interfere with oxygen intake by reducing the amount of available oxygen through displacement. Carcinogenic forms of hydrocarbons, such as benzene, are considered TACs. There are no separate ambient air quality standards for VOCs as a group.

Source: CAPCOA 2018.

Notes: Volatile Organic Compounds (VOCs or Reactive Organic Gases [ROG]) are hydrocarbons/organic gases that are formed solely of hydrogen and carbon. There are several subsets of organic gases including ROGs and VOCs. Both ROGs and VOCs are emitted from the incomplete combustion of hydrocarbons or other carbon-based fuels. The major sources of

hydrocarbons are combustion engine exhaust, oil refineries, and oil-fueled power plants; other common sources are petroleum fuels, solvents, dry cleaning solutions, and paint (via evaporation).

Non-criteria Air Pollutants

Toxic Air Contaminants. Toxic air contaminants (TACs) are airborne substances that can cause short-term (acute) or long-term (i.e., chronic, carcinogenic or cancer causing) adverse human health effects (i.e., injury or illness). TACs include both organic and inorganic chemical substances. They may be emitted from a variety of common sources including gasoline stations, automobiles, dry cleaners, industrial operations, and painting operations. The current California list of TACs includes more than 200 compounds, including particulate emissions from diesel-fueled engines. In the state of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics "Hot Spots" Information and Assessment Act, Assembly Bill (AB) 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere. The law requires facilities emitting toxic substances to provide local air pollution control districts with information that will allow an assessment of the air toxics problem, identification of air toxics emissions sources, location of resulting hotspots, notification of the public exposed to significant risk, and development of effective strategies to reduce potential risks to the public over 5 years.

Diesel Particulate Matter. CARB identified diesel particulate matter (DPM) as a toxic air contaminant. DPM differs from other TACs in that it is not a single substance but rather a complex mixture of hundreds of substances. Diesel exhaust is a complex mixture of particles and gases produced when an engine burns diesel fuel. DPM is a concern because it causes lung cancer; many compounds found in diesel exhaust are carcinogenic. DPM includes the particle-phase constituents in diesel exhaust. The chemical composition and particle sizes of DPM vary between different engine types (heavy-duty, light-duty), engine operating conditions (idle, accelerate, decelerate), fuel formulations (high/low sulfur fuel), and the year of the engine. Some short-term (acute) effects of diesel exhaust include eye, nose, throat, and lung irritation, and diesel exhaust can cause coughs, headaches, light-headedness, and nausea. DPM poses the greatest health risk among the TACs. Almost all diesel exhaust particle mass is 10 microns or less in diameter. Due to their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung.

Odorous Compounds. Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person's reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The ability to detect odors varies considerably among the population and overall is quite subjective. People may have different reactions to the same odor. An odor that is offensive to one person may be perfectly acceptable to another (e.g., coffee roaster). An unfamiliar odor is more easily detected and is more likely to cause complaints than a familiar one. In a phenomenon known as odor fatigue, a person can become desensitized to almost any odor, and recognition may only occur with an alteration in the intensity. The occurrence and severity of odor impacts depend on the nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receptors.

Sensitive Receptors

Sensitive populations are more susceptible to the effects of air pollution than is the general population. Sensitive receptors that are in proximity to localized sources of toxics are of particular concern. Land uses considered sensitive receptors include residences, schools, playgrounds, childcare centers, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes (CARB 2005). Table 3.1-2 lists the sensitive receptors that will remain nearest the Project site, which include single- and multi-family residential and educational uses. At the time of the preparation of the technical report, there were also single-family homes to the immediate south of the Project site; two of these have been demolished because they were public nuisances and the third will be demolished as part of the Project. As indicated in Table 3.1-2, the nearest sensitive receptors are the Live/Work residential uses west of the Project site.

Table 3.1-2. Sensitive Receptors

Receptor Description	Distance and Direction from the Project[1]	Description
Live/Work and Townhome Residences	Adjacent to the west	Live/Work and Townhome Residences adjacent to Project, along Artesia Boulevard
Single-Family Residences	150 feet to the east	Southeast corner of W Cassidy Street and Normandie Avenue
Single-Family Residences	425 feet to the north	Along West 173rd Street
School	465 feet to the southeast	Gardena Early Education Center, southeast corner of West 177th Street and Normandie Avenue
Multi-Family Residences	1,080 feet to the south	Along West 179th Street

1 Distances have been measured from the nearest Project site boundary to the property line of each receptor.

2 The Project site is zoned 1450 Artesia Specific Plan. These are existing non-conforming uses.

3.1.2 Relevant Plans, Policies, and Ordinances

Federal

Federal Clean Air Act

Air quality is federally protected by the Federal Clean Air Act (FCAA) and its amendments. Under the FCAA, the United States Environmental Protection Agency (EPA) developed the primary and secondary National Ambient Air Quality Standards (NAAQS) for the criteria air pollutants including O_3, NO_2, CO, SO_2, PM_{10}, $PM_{2.5}$, and lead. The EPA is also responsible for setting hazardous air pollutant (HAP) standards; approving state attainment plans; setting motor vehicle emission standards; issuing stationary source emission standards and permits; and establishing acid rain control measures, stratospheric O_3 protection measures, and enforcement provisions.

The NAAQS describe acceptable air quality conditions designed to protect the health and welfare of the citizens of the nation. The NAAQS (other than for O_3, NO_2, SO_2, PM_{10}, $PM_{2.5}$, and those based on annual averages or arithmetic mean) are not to be exceeded more than once per year. NAAQS for O_3, NO_2, SO_2, PM_{10}, and $PM_{2.5}$ are based on statistical calculations over 1- to 3-year periods, depending on the pollutant. The Clean Air Act requires the EPA to reassess the NAAQS at least every 5 years to determine whether adopted standards are adequate to protect public health based on current scientific evidence. Proposed projects in or near nonattainment areas could be subject to more stringent air-permitting requirements. The FCAA requires each state to prepare a State Implementation Plan to demonstrate how it will attain the NAAQS within the federally imposed deadlines.

The EPA can withhold certain transportation funds from states that fail to comply with the planning requirements of the FCAA. If a state fails to correct these planning deficiencies within 2 years of Federal notification, the EPA is required to develop a Federal Implementation Plan for the identified nonattainment area or areas. The provisions of 40 Code of Federal Regulations Parts 51 and 93 apply in all nonattainment and maintenance areas for transportation-related criteria pollutants for which the area is designated nonattainment or has a maintenance plan. The EPA has designated enforcement of air pollution control regulations to the individual states. Applicable NAAQS are summarized in Table 3.1-3.

Hazardous Air Pollutants

The 1977 FCAA amendments required the EPA to identify national emission standards for HAPs to protect public health and welfare. HAPs include certain volatile organic chemicals, pesticides, herbicides, and radionuclides that present a tangible hazard, based on scientific studies of exposure to humans and other mammals. Under the 1990 FCAA Amendments, which expanded the control program for HAPs, 188 substances and chemical families were identified as HAPs.

State

California Air Resources Board

The California Air Resources Board (CARB), which became part of the California Environmental Protection Agency in 1991, administers the air quality policy in California. The California Ambient Air Quality Standards (CAAQS), established in 1969 pursuant to the Mulford-Carrell Act, respond to FCAA and regulate emissions from motor vehicles and consumer products. These standards, included with the NAAQS in Table 3.1-3, are generally more stringent and apply to more pollutants than the NAAQS. In addition to the criteria pollutants, CAAQS have been established for visibility reducing particulates, hydrogen sulfide, and sulfates.

The California Clean Air Act (CCAA), which was approved in 1988, requires that each local air district prepare and maintain an Air Quality Management Plan (AQMP) to achieve compliance with CAAQS. These AQMPs also serve as the basis for the preparation of the State Implementation Plan for meeting federal clean air standards for the State of California. Like the EPA, CARB also designates areas within California as either attainment or nonattainment for each criteria pollutant based on whether the CAAQS have been achieved. Under the CCAA, areas are designated as nonattainment for a pollutant if air quality data shows that a state standard for the pollutant was violated at least once during the previous 3 calendar years. Exceedances that are affected by highly irregular or

infrequent events such as wildfires, volcanoes, etc. are not considered violations of a state standard, and are not used as a basis for designating areas as nonattainment. The applicable state standards are summarized in Table 3.1-3.

California air districts have based their thresholds of significance for California Environmental Quality Act (CEQA) purposes on the levels that scientific and factual data demonstrate that the air basin can accommodate without affecting the attainment date for the NAAQS or CAAQS. Since an ambient air quality standard is based on maximum pollutant levels in outdoor air that would not harm the public's health, and air district thresholds pertain to attainment of the ambient air quality standard, this means that the thresholds established by air districts are also protective of human health.

Table 3.1-3. State and Federal Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	Primary[c,d]	Secondary[c,e]
O_3	1 hour	0.09 ppm (180 µg/m³)	—	Same as primary standard[f]
	8 hours	0.070 ppm (137 µg/m³)	0.070 ppm (137 µg/m³)[f]	
NO_2[g]	1 hour	0.18 ppm (339 µg/m³)	0.100 ppm (188 µg/m³)	Same as primary standard
	Annual arithmetic mean	0.030 ppm (57 µg/m³)	0.053 ppm (100 µg/m³)	
CO	1 hour	20 ppm (23 mg/m³)	35 ppm (40 mg/m³)	None
	8 hours	9.0 ppm (10 mg/m³)	9 ppm (10 mg/m³)	
SO_2[h]	1 hour	0.25 ppm (655 µg/m³)	0.075 ppm (196 µg/m³)	—
	3 hours	—	—	0.5 ppm (1,300 µg/m³)
	24 hours	0.04 ppm (105 µg/m³)	0.14 ppm (for certain areas)[g]	—
	Annual	—	0.030 ppm (for certain areas)[g]	—
PM_{10}[i]	24 hours	50 µg/m³	150 µg/m³	Same as primary standard
	Annual arithmetic mean	20 µg/m³	—	

Table 3.1-3. State and Federal Ambient Air Quality Standards

Pollutant	Averaging Time	California Standards[a]	National Standards[b]	
		Concentration[c]	Primary[c,d]	Secondary[c,e]
$PM_{2.5}$[i]	24 hours	—	35 µg/m³	Same as primary standard
	Annual arithmetic mean	12 µg/m³	9.0 µg/m³	15.0 µg/m³
Lead[j,k]	30-day average	1.5 µg/m³	—	—
	Calendar quarter	—	1.5 µg/m³ (for certain areas)[k]	Same as primary standard
	Rolling 3-month average	—	0.15 µg/m³	
Hydrogen sulfide	1 hour	0.03 ppm (42 µg/m³)	—	—
Vinyl chloride[j]	24 hours	0.01 ppm (26 µg/m³)	—	—
Sulfates	24 hours	25 µg/m³	—	—
Visibility reducing particles	8 hours (10:00 a.m. to 6:00 p.m. PST)	Insufficient amount to produce an extinction coefficient of 0.23 per kilometer due to the number of particles when the relative humidity is less than 70%	—	—

Source: CARB 2016; EPA 2016.

Notes: O_3 = ozone; ppm = parts per million by volume; µg/m³ = micrograms per cubic meter; NO_2 = nitrogen dioxide; CO = carbon monoxide; mg/m³= milligrams per cubic meter; SO_2 = sulfur dioxide; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; PST = Pacific Standard Time.

[a] California standards for O_3, CO, SO_2 (1-hour and 24-hour), NO_2, suspended particulate matter (PM_{10}, $PM_{2.5}$), and visibility-reducing particles are values that are not to be exceeded. All others are not to be equaled or exceeded. CAAQS are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.

[b] National standards (other than O_3, NO_2, SO_2, particulate matter, and those based on annual averages or annual arithmetic mean) are not to be exceeded more than once per year. The O_3 standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over 3 years, is equal to or less than the standard. For PM_{10}, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than 1. For $PM_{2.5}$, the 24-hour standard is

attained when 98% of the daily concentrations, averaged over 3 years, are equal to or less than the standard.

[c] Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based on a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.

[d] National primary standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

[e] National secondary standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

[f] On October 1, 2015, the national 8-hour O_3 primary and secondary standards were lowered from 0.075 to 0.070 ppm.

[g] To attain the national 1-hour standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 parts per billion (ppb). Note that the national 1-hour standard is in units of ppb. California standards are in units of ppm. To directly compare the national 1-hour standard to the California standards, the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.

[h] On June 2, 2010, a new 1-hour SO_2 standard was established, and the existing 24-hour and annual primary standards were revoked. To attain the national 1-hour standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO_2 national standards (24-hour and annual) remain in effect until 1 year after an area is designated for the 2010 standard, except that in areas designated nonattainment of the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.

[i] On December 14, 2012, the national annual $PM_{2.5}$ primary standard was lowered from 15 $\mu g/m^3$ to 12.0 $\mu g/m^3$. The existing national 24-hour $PM_{2.5}$ standards (primary and secondary) were retained at 35 $\mu g/m^3$, as was the annual secondary standard of 15 $\mu g/m^3$. The existing 24-hour PM_{10} standards (primary and secondary) of 150 $\mu g/m^3$ were also retained. The form of the annual primary and secondary standards is the annual mean averaged over 3 years.

[j] CARB has identified lead and vinyl chloride as TACs with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.

[k] The national standard for lead was revised on October 15, 2008, to a rolling 3-month average. The 1978 lead standard (1.5 $\mu g/m^3$ as a quarterly average) remains in effect until 1 year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.

Toxic Air Contaminants

The state Air Toxics Program was established in 1983 under AB 1807 (Tanner). The California TAC list identifies more than 200 pollutants, of which carcinogenic and noncarcinogenic toxicity criteria have been established for a subset of these pollutants pursuant to the California Health and Safety Code. In accordance with AB 2728, the state list includes the (federal) HAPs. The Air Toxics "Hot Spots" Information and Assessment Act of 1987 (AB 2588) seeks to identify and evaluate risk from air toxics sources; however, AB 2588 does not regulate air toxics emissions. TAC emissions from

individual facilities are quantified and prioritized. “High-priority” facilities are required to perform a health risk assessment, and if specific thresholds are exceeded, are required to communicate the results to the public in the form of notices and public meetings.

In 2000, the CARB approved a comprehensive Diesel Risk Reduction Plan to reduce diesel emissions from both new and existing diesel-fueled vehicles and engines (CARB 2000). The regulation is anticipated to result in an 80% decrease in statewide diesel health risk in 2020 compared with the diesel risk in 2000. Additional regulations apply to new trucks and diesel fuel, including the On-Road Heavy Duty Diesel Vehicle (In-Use) Regulation, the On-Road Heavy Duty (New) Vehicle Program, the In-Use Off-Road Diesel Vehicle Regulation, and the New Off-Road Compression-Ignition (Diesel) Engines and Equipment Program. These regulations and programs have timetables by which manufacturers must comply and existing operators must upgrade their diesel-powered equipment. Several Airborne Toxic Control Measures that reduce diesel emissions including In-Use Off-Road Diesel-Fueled Fleets (13 CCR 2449 et seq.) and In-Use On-Road Diesel-Fueled Vehicles (13 CCR 2025).

California Code of Regulations

The California Code of Regulations (CCR) is the official compilation and publication of regulations adopted, amended or repealed by state agencies pursuant to the Administrative Procedure Act. The CCR includes regulations that pertain to air quality emissions. Specifically, Section 2485 in Title 13 of the CCR states that the idling of all diesel-fueled commercial vehicles (weighing over 10,000 pounds) during construction shall be limited to 5 minutes at any location. In addition, Section 93115 in Title 17 of the CCR states that operations of any stationary, diesel-fueled, compression-ignition engines shall meet specified fuel and fuel additive requirements and emissions standards.

California Health and Safety Code Section 41700

Section 41700 of the Health and Safety Code states that a person shall not discharge from any source whatsoever quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public; or that endanger the comfort, repose, health, or safety of any of those persons or the public; or that cause, or have a natural tendency to cause, injury or damage to business or property. This section also applies to sources of objectionable odors.

Regional and Local

South Coast Air Quality Management District

The South Coast Air Quality Management District (SCAQMD) is the air pollution control agency for Orange County and the urban portions of Los Angeles, Riverside, and San Bernardino Counties. The agency’s primary responsibility is ensuring that CAAQS and NAAQS are attained and maintained in the SCAB. The SCAQMD is also responsible for adopting and enforcing rules and regulations concerning air pollutant sources, issuing permits for stationary sources of air pollutants, inspecting stationary sources of air pollutants, responding to citizen complaints, monitoring ambient air quality and meteorological conditions, awarding grants to reduce motor vehicle emissions, conducting public

education campaigns, and many other activities. All projects are subject to SCAQMD rules and regulations in effect at the time of construction.

The SCAQMD is also the lead agency in charge of developing the AQMP, with input from the Southern California Association of Governments (SCAG) and CARB. The AQMP is a comprehensive plan that includes control strategies for stationary and area sources, as well as for on-road and off-road mobile sources. SCAG has the primary responsibility for providing future growth projections and the development and implementation of transportation control measures. CARB, in coordination with federal agencies, provides the control element for mobile sources.

The 2016 AQMP was adopted by the SCAQMD Governing Board on March 3, 2017. The purpose of the 2016 AQMP is to set forth a comprehensive and integrated program that would lead the SCAB into compliance with the federal 24-hour $PM_{2.5}$ air quality standard, and to provide an update to the SCAQMD's commitments towards meeting the 8-hour O_3 NAAQS. The 2016 AQMP incorporates the latest scientific and technological information and planning assumptions, including the 2016 *Regional Transportation Plan/Sustainable Communities Strategy* (RTP/SCS) and updated emission inventory methodologies for various source categories. As part of its air quality planning, SCAG has prepared the Regional Comprehensive Plan and Guide and the Connect SoCal – The 2020–2045 RTP/SCS (SCAG 2020). The 2020–2045 RTP/SCS was determined to conform to the federally mandated State Implementation plan (SIP) for the attainment and maintenance of the NAAQS. Both the Regional Comprehensive Plan and AQMP are based, in part, on projections originating with county and city general plans.

On October 1, 2015, the EPA strengthened the NAAQS for ground-level O_3. The 2022 AQMP, adopted by the SCAQMD Governing Board on December 2, 2022, was developed to address the requirements for meeting the 2015 8-hour O_3 standard. The 2022 AQMP builds upon measures already in place from previous AQMPs (SCAQMD 2022). It also includes various additional strategies such as regulation, accelerated deployment of available cleaner technologies (e.g., zero emissions technologies, when cost-effective and feasible, and low NO_X technologies in other applications), best management practices, co-benefits from existing programs (e.g., climate and energy efficiency), incentives, and other FCAA measures to achieve the 2015 8-hour O_3 standard. The 2022 AQMP incorporates the latest scientific and technological information and planning assumptions, including the 2020–2045 RTP/SCS and updated emission inventory methodologies for various source categories.

The SCAQMD has published the *CEQA Air Quality Handbook* (approved by the SCAQMD Governing Board in 1993 and augmented with guidance for Localized Significance Thresholds [LST] in 2008). The SCAQMD guidance helps local government agencies and consultants to develop environmental documents required by California Environmental Quality Act (CEQA) and provides identification of suggested thresholds of significance for criteria pollutants for both construction and operation (see discussion of thresholds below). With the help of the *CEQA Air Quality Handbook* and associated guidance, local land use planners and consultants are able to analyze and document how proposed and existing projects affect air quality in order to meet the requirements of the CEQA review process. The SCAQMD periodically provides supplemental guidance and updates to the handbook on their website.

SCAG is the regional planning agency for Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial Counties and serves as a forum for regional issues relating to transportation, the economy, community development, and the environment. Under federal law, SCAG is designated as

a Metropolitan Planning Organization and under state law as a Regional Transportation Planning Agency and a Council of Governments. The state and federal attainment status designations for the SCAB are summarized in Table 3.1-4.

Table 3.1-4. South Coast Air Basin Attainment Classification

Pollutant	Designation/Classification	
	National Standards	California Standards
Ozone (O_3), 1-hour	No national standard	**Nonattainment**
Ozone (O_3), 8-hour	**Extreme nonattainment**	**Nonattainment**
Nitrogen Dioxide (NO_2)	Attainment/maintenance	Attainment
Carbon Monoxide (CO)	Attainment/maintenance	Attainment
Sulfur Dioxide (SO_2)	Unclassifiable/attainment	Attainment
Coarse Particulate Matter (PM_{10})	Attainment/maintenance	**Nonattainment**
Fine Particulate Matter ($PM_{2.5}$)	**Serious nonattainment**	**Nonattainment**
Lead	Unclassifiable/attainment	Attainment
Hydrogen Sulfide	No national standard	Unclassified
Sulfates	No national standard	Attainment
Visibility-Reducing Particles	No national standard	Unclassified
Vinyl Chloride	No national standard	No designation

Sources: EPA 2022 (national); CARB 2022 (California).

In summary, the SCAB is currently designated as a nonattainment area for O_3, PM_{10}, and $PM_{2.5}$ CAAQS, as well as the 8-hour O_3 and $PM_{2.5}$ NAAQS. The SCAB is designated as attainment or unclassified for the remaining CAAQS and NAAQS (EPA 2022; CARB 2022).

Despite the current nonattainment status, air quality within the SCAB has generally improved since the inception of air pollutant monitoring in 1976. This improvement is mainly a result of lower-polluting on-road motor vehicles, more stringent regulation of industrial sources, and the implementation of emission reduction strategies by the SCAQMD. This trend toward cleaner air has occurred in spite of continued population growth. Despite this growth, air quality has improved significantly over the years, primarily because of the impacts of the region's air quality control program.

Applicable Rules

The following is a list of SCAQMD rules that are required of construction activities associated with the Project:

- Rule 401 (Visible Emissions) – This rule establishes the limit for visible emissions from stationary sources for a period or periods aggregating more than three minutes in any hour. This rule prohibits visible emissions dark or darker than Ringelmann No. 1 for periods greater than three minutes in any hour or such opacity which could obscure an observer's view to a degree equal or greater than does smoke.

- **Rule 402 (Nuisance)** – This rule prohibits the discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. This rule does not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.
- **Rule 403 (Fugitive Dust)** – This rule requires fugitive dust sources to implement best available control measures for all sources, and all forms of visible particulate matter are prohibited from crossing any property line. This rule is intended to reduce PM_{10} emissions from any transportation, handling, construction, or storage activity that has the potential to generate fugitive dust. PM_{10} suppression techniques are summarized below.
    a) Portions of a construction site to remain inactive longer than a period of three months will be seeded and watered until grass cover is grown or otherwise stabilized.
    b) All on-site roads will be paved as soon as feasible or watered periodically or chemically stabilized.
    c) All material transported off-site will be either sufficiently watered or securely covered to prevent excessive amounts of dust.
    d) The area disturbed by clearing, grading, earthmoving, or excavation operations will be minimized at all times.
    e) Where vehicles leave a construction site and enter adjacent public streets, the streets will be swept daily or washed down at the end of the workday to remove soil tracked onto the paved surface.
- **Rule 431.2 (Sulfur Content of Liquid Fuels) –** The purpose of this rule is to limit the sulfur content in diesel and other liquid fuels for the purpose both of reducing the formation of SO_x and particulates during combustion and of enabling the use of add-on control devices for diesel-fueled internal combustion engines. The rule applies to all refiners, importers, and other fuel suppliers such as distributors, marketers, and retailers, as well as to users of diesel, low-sulfur diesel, and other liquid fuels for stationary-source applications in the SCAQMD. The rule also affects diesel fuel supplied for mobile source applications.
- **Rule 1113 (Architectural Coatings)** – This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce ROG emissions from the use of these coatings, primarily by placing limits on the ROG content of various coating categories.

Local Ambient Air Quality

CARB monitors ambient air quality at approximately 250 air monitoring stations across the state. These stations usually measure pollutant concentrations 10 feet above ground level; therefore, air quality is often referred to in terms of ground-level concentrations. Existing ambient air quality levels, historical trends, and projections near the Project site are documented by measurements made by the SCAQMD, the air pollution regulatory agency in the SCAB that maintains air quality monitoring stations, which process ambient air quality measurements.

Pollutants of concern in the SCAB are O_3, PM_{10}, and $PM_{2.5}$. The air monitoring station nearest the Project site that monitors ambient concentrations of these pollutants is the Compton Monitoring

Station (located approximately 7.8 miles to the northeast). The Compton Monitoring Station did not include data for PM10 therefore data from the Long Beach Monitoring Station (located approximately 8.7 miles to the southeast) was used also. Local air quality data for these stations from 2018 to 2020 are provided in Table 3.1-5, which lists the monitored maximum concentrations and number of exceedances of California Ambient Air Quality Standards (CAAQS) or National Ambient Air Quality Standards (NAAQS) for each year.

Table 3.1-5. Local Ambient Air Quality Data

Criteria Pollutant	2020	2021	2022
Ozone (O_3) [1]			
1-hour Maximum Concentration (ppm)	0.152	0.085	0.111
8-hour Maximum Concentration (ppm)	0.085	0.076	0.085
Number of Days Standard Exceeded			
CAAQS 1-hour (>0.09 ppm)	3	0	1
NAAQS 8-hour (>0.070 ppm)	4	1	1
Carbon Monoxide (CO) [2]			
1-hour Maximum Concentration (ppm)	4.537	4.331	3.437
Number of Days Standard Exceeded			
NAAQS 1-hour (>35 ppm)	0	0	0
CAAQS 1-hour (>20 ppm)	0	0	0
Nitrogen Dioxide (NO_2) [1]			
1-hour Maximum Concentration (ppm)	0.0723	0.0682	0.0649
Number of Days Standard Exceeded			
NAAQS 1-hour (>0.10 ppm)	0	0	0
CAAQS 1-hour (>0.18 ppm)	0	0	0
Coarse Particulate Matter (PM_{10}) [3]			
National 24-hour Maximum Concentration	68.3	48.7	48.9
State 24-hour Maximum Concentration	68.7	49.7	50.3
State Annual Average Concentration (CAAQS=20 µg/m^3)	—	23.6	—
Number of Days Standard Exceeded			
NAAQS 24-hour (>150 µg/m^3)	0	0	—
CAAQS 24-hour (>50 µg/m^3)	3	0	—
Fine Particulate Matter ($PM_{2.5}$) [1]			
National 24-hour Maximum Concentration	67.5	102.1	52.8
State 24-hour Maximum Concentration	67.5	102.1	54.6
Number of Days Standard Exceeded			
NAAQS 24-hour (>35 µg/m^3)	19	12	6

Sources: Source: All pollutant measurements are from the CARB Aerometric Data Analysis and Management system database (https://www.arb.ca.gov/adam) except for CO, which were retrieved

from the CARB Air Quality and Meteorological Information System (https://www.arb.ca.gov/aqmis2/aqdselect.php).

Notes: ppm = parts per million by volume; — = not available; μg/m^3 = micrograms per cubic meter; ND = insufficient data available to determine the value.

1 Measurements taken at the Compton-700 North Bullis Road Monitoring Station (CARB# 70112).
2 Measurements taken at the Compton-700 North Bullis Road Monitoring Station (CARB# 70112), which is the closet monitoring station that measures CO.
3 Measurements taken at the South Long Beach Monitoring (CARB# 33165).

City of Gardena General Plan

The City of Gardena General Plan Land Use Plan, Circulation Plan, and Environmental Justice Element identify the following air quality goals and policies that apply to the Project (City of Gardena 2021):

CI Goal 1: Promote a safe and efficient circulation system that benefits residents and businesses, and integrates with the greater Los Angeles/South Bay transportation system.

Policy 1.1: Prioritize long-term sustainability for the City of Gardena, in alignment with regional and State goals, by promoting infill development, reduced reliance on single-occupancy vehicle trips, and improved multi-modal transportation networks, with the goal of reducing air pollution and greenhouse gas emissions, thereby improving the health and quality of life for residents.

Policy 1.2: Minimize truck traffic through Gardena and minimize adverse impacts by regulating off-street truck parking, intrusions into neighborhoods, and noise levels.

CI Goal 3: Develop Complete Streets to promote alternative modes of transportation that are safe and efficient for commuters, and available to persons of all income levels and disabilities.

Policy 3.4: Maintain a citywide bicycle route and maintenance plan that promotes efficient and safe bikeways integrated with the MTA's regional bicycle system.

Policy 3.5: As roadways are repaved or otherwise improved, evaluate opportunities to enhance the quality and safety of the roadway by implementing new or improved walking, bicycling, or public transit infrastructure. If no walking, bicycling, or public transit improvements are being provided, a report to the City Council should provide an explanation for why such improvements are not needed along this roadway segment.

LU Goal 3: Provide high quality, attractive and well-maintained commercial, industrial, and public environments that enhance the image and vitality of the City.

Policy 3.6: New commercial and industrial developments shall meet or exceed local and State requirements pertaining to noise, air, water, seismic safety and any other applicable environmental regulations.

EJ Goal 1: Reduce greenhouse gas emissions, enhance air quality, and reduce impacts associated with climate change.

Policy 1.2: Attract new clean industry to the City which do not emit smoke, noise, offensive odors, or harmful industrial wastes.

Policy 1.13: Reduce communitywide greenhouse gas emissions locally by actively supporting regional efforts to reduce greenhouse gases.

3.1.3 Thresholds of Significance

Based upon the criteria derived from State CEQA Guidelines Appendix G, a Project normally would have a significant effect on the environment if it would:

1. Conflict with or obstruct implementation of the applicable air quality plan?
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?
3. Expose sensitive receptors to substantial pollutant concentrations?
4. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

South Coast Air Quality Management District Thresholds

SCAQMD has established Air Quality Significance Thresholds, as revised in March 2023, that set forth quantitative emission significance thresholds below which a project would not have a significant impact on ambient air quality. The Project's "regional" emission refers to emissions that will be evaluated based on regional significance thresholds established by SCAQMD, also known as the criteria pollutant mass daily thresholds. According to the SCAQMD, an air quality impact is considered significant if a Project would violate any ambient air quality standard, contribute substantially to an existing or projected air quality violation, or expose sensitive receptors to substantial pollutant concentrations. The SCAQMD has established thresholds of significance for air quality during construction and operational activities of land use development projects, as shown in Table 3.1-6.

Table 3.1-6. SCAQMD District Regional Emissions Thresholds

Criteria Pollutants Mass Daily Thresholds		
Pollutant	Construction (pounds per day)	Operation (pounds per day)
VOCs	75	55
NO_x	100	55
CO	550	550
SO_x	150	150
PM_{10}	150	150
$PM_{2.5}$	55	55
Lead[a]	3	3

Table 3.1-6. SCAQMD District Regional Emissions Thresholds

Criteria Pollutants Mass Daily Thresholds	
TACs and Odor Thresholds	
TACs[b]	Maximum incremental cancer risk ≥10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥1 in 1 million) Chronic and acute hazard index ≥1.0 (project increment)
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402
Ambient Air Quality Standards for Criteria Pollutants[c]	
NO_2 1-hour average NO_2 annual arithmetic mean	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 0.18 ppm (state) 0.030 ppm (state) and 0.0534 ppm (federal)
CO 1-hour average CO 8-hour average	SCAQMD is in attainment; project is significant if it causes or contributes to an exceedance of the following attainment standards: 20 ppm (state) and 35 ppm (federal) 9.0 ppm (state/federal)
PM_{10} 24-hour average PM_{10} annual average	10.4 μg/m^3 (construction)[d] 2.5 μg/m^3 (operation) 1.0 μg/m^3
$PM_{2.5}$ 24-hour average	10.4 μg/m^3 (construction)[d] 2.5 μg/m^3 (operation)

Source: SCAQMD 2023.
Notes: SCAQMD = South Coast Air Quality Management District; VOC = volatile organic compounds; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; TAC = toxic air contaminant; NO_2 = nitrogen dioxide; ppm = parts per million by volume; μg/m^3 = micrograms per cubic meter.
Greenhouse gas emissions thresholds for industrial projects, as added in the March 2015 revision to the SCAQMD Air Quality Significance Thresholds, were not include included in this table as they are addressed within the greenhouse gas emissions analysis and not the air quality analysis.

[a] The phaseout of leaded gasoline started in 1976. Since gasoline no longer contains lead, the Project is not anticipated to result in impacts related to lead; therefore, it is not discussed in this analysis.
[b] TACs include carcinogens and noncarcinogens.
[c] Ambient air quality standards for criteria pollutants are based on SCAQMD Rule 1303, Table A-2, unless otherwise stated.
[d] Ambient air quality threshold are based on SCAQMD Rule 403.

Localized Carbon Monoxide

In addition to the daily thresholds listed above, the Project would also be subject to CAAQS and NAAQS. These are addressed though an analysis of localized CO impacts. The significance of localized

impacts depends on whether ambient CO levels near the Project site are above CAAQS and NAAQS (the more stringent CAAQS are 20 ppm for 1-hour and 9 ppm for 8-hour). The SCAB has been designated as attainment under the 1-hour and 8-hour CAAQS.

Localized Significance Thresholds

In addition to the CO hotspot analysis, the SCAQMD developed Local Significance Thresholds (LSTs) for emissions of NO_2, CO, PM_{10}, and $PM_{2.5}$ generated at new development sites (off-site mobile source emissions are not included in the LST analysis). LSTs represent the maximum emissions that can be generated at a project without expecting to cause or substantially contribute to an exceedance of the most stringent CAAQS or NAAQS. LSTs are based on the ambient concentrations of that pollutant within the Project source receptor area (SRA), as demarcated by the SCAQMD, and the distance to the nearest sensitive receptor. LST analysis for construction is applicable for all projects that disturb 5.0 acres or less on a single day. The City of Gardena is located within SCAQMD SRA 3. LST's interpolated at meters (between the 100- and 200-meter threshold) are provided in Table 3.1-7 for informational purposes and to demonstrate that the thresholds increase as acreages increase. However, because the sensitive receptors nearest the Project site are adjacent, this analysis uses the 25-meter thresholds.

Table 3.1-7. Localized Significance Thresholds for Construction/Operations

Project Size	Maximum Pounds Per Day			
	NO_X	CO	PM_{10}	$PM_{2.5}$
1 Acre	91/91	664/664	5/1	3/1
2 Acres	132/131	967/967	8/2	5/1
5 Acres	197/197	1,796/1,796	15/4	8/2

Source: SCAQMD 2008, 2009.
Notes: NO_2 = nitrogen dioxide; CO = carbon monoxide; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter.
LST thresholds were determined based on the values for a distance of 25 meters in SRA 3.

3.1.4 Methodology

This air quality impact analysis considers the Project's construction and operational impacts. Where criteria air pollutant quantification was required, emissions were modeled using the California Emissions Estimator Model (CalEEMod) Version 2022.1 (CAPCOA 2022). CalEEMod is a statewide land use emissions computer model designed to quantify potential criteria pollutant emissions associated with both construction and operations from a variety of land use projects. CalEEMod input parameters, including the land use type used to represent the Project and its size, construction schedule, and anticipated use of construction equipment, were based on information provided by the Project Applicant or default model assumptions if Project specifics were unavailable. Air quality impacts were assessed according to methodologies recommended by CARB and the SCAQMD.

Construction Emissions

Construction equipment, trucks, worker vehicles, and ground-disturbing activities associated with Project construction would generate emissions of criteria air pollutants and precursors. Daily regional construction emissions are estimated by assuming construction occurs at the earliest feasible date (i.e., a conservative estimate of construction activities) and applying off-road, fugitive dust, and on-road emissions factors in CalEEMod.

Operational Emissions

Project operations would result in emissions of area sources (consumer products), energy sources (natural gas usage and off-site electrify generation), and mobile sources (motor vehicles from Project generated vehicle trips). The list below describes each operational emissions source.

- **Area Source Emissions.** Area source emissions would be generated due to on-site equipment, architectural coating, and landscape maintenance equipment that were previously not present on the site.
- **Energy Source Emissions.** Energy source emissions would be generated due to electricity and natural gas usage associated with the Project. Primary uses of electricity and natural gas by the Project would be for miscellaneous warehouse equipment, space heating and cooling, water heating, ventilation, lighting, appliances, and electronics.
- **Off-Road Equipment.** Operational off-road emissions would be generated by off-road cargo handling equipment used during operational activities. For the Project, it was assumed that the warehouses would include three forklifts and one yard truck per SCAQMD data (SCAQMD 2014).
- **Emergency Backup Generators.** It is undetermined at this time whether the warehouse/distribution facility will require emergency backup generators. Backup generators would only be used in the event of a power failure and would not be part of the Project's normal daily operations. Nonetheless, emissions associated with this equipment were included to be conservative. Emissions from an emergency backup generator for the proposed warehouse building were calculated separately from CalEEMod; refer to Appendix B-1. However, CalEEMod default emissions rates were used. If backup generators are required, the end user would be required to obtain a permit from the SCAQMD prior to installation. Emergency backup generators must meet SCAQMD's Best Available Control Technology (BACT) requirements and comply with SCAQMD Rule 1470 (Requirements for Stationary Diesel-Fueled Internal Combustion and Other Compression Ignition Engines), which would minimize emissions.
- **Mobile Source Emissions.** Mobile sources are emissions from motor vehicles, including tailpipe and evaporative emissions. Depending upon the pollutant being discussed, the potential air quality impact may be of either regional or local concern. For example, ROG, NO_X, PM_{10}, and $PM_{2.5}$ are all pollutants of regional concern. NO_X and ROG react with sunlight to form O_3, known as photochemical smog. Additionally, wind currents readily transport PM_{10} and $PM_{2.5}$. However, CO tends to be a localized pollutant, dispersing rapidly at the source.

Project-generated increases in operational emissions would be predominantly associated with mobile sources (i.e., motor vehicle use). The proposed Project is forecast to generate 945 maximum daily vehicle trips (ADT), which includes 220 daily trips from the special events. The 945 maximum ADT is

also inclusive of 75 average daily truck trips (Kimley-Horn and Associates 2022a). It is also noted, because SCAQMD methodology requires analysis of maximum daily emissions, the special event daily trips (220 daily trips) were also included in the Project's maximum daily emissions modeling, although the various special events would occur only on special event days (up to three times per month) (Kimley-Horn and Associates 2022b). Thus, mobile source emissions were based on 945 maximum daily trips (725 ADT from the mixed-use development not accounting for displaced land uses and 220 daily trips from the special events) pursuant to SCAQMD methodology requirements.

As discussed above, the SCAQMD provides significance thresholds for emissions associated with Project construction and operations. The Project's construction and operational emissions are compared to the daily criteria pollutant emissions significance thresholds to determine the significance of a project's impact on regional air quality.

Health Risk Assessment

The SCAQMD's Modeling Guidance for American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) (SCAQMD 2023b) provides guidance to perform dispersion modeling for use in HRAs within the South Coast Air Basin. The SCAQMD has adopted a cancer risk threshold of 10 in 1 million (SCAQMD 2023a), which indicates that a person has an additional risk of 10 chances in 1 million (0.001%) of developing cancer during their lifetime as a result of the air pollution scenario being evaluated. The SCAQMD has also adopted a hazard index less than 1.0, below which indicates that people are not likely to experience any non-cancer health effects (SCAQMD 2023a).

Cancer risk is expressed in terms of expected incremental incidence per million population. The SCAQMD has established an incidence rate of 10 persons per million as the maximum acceptable incremental cancer risk due to DPM exposure. This threshold serves to determine whether or not a given project has a potentially significant development-specific and cumulative impact. The 10 in 1 million standard is a health-protective significance threshold. A risk level of 10 in 1 million implies a likelihood that up to 10 persons, out of 1 million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time. This risk would be an excess cancer that is in addition to any cancer risk borne by a person not exposed to these air toxics.

The SCAQMD has also established non-carcinogenic risk parameters for use in HRAs. Noncarcinogenic risks are quantified by calculating a "hazard index," expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). An REL is a concentration at or below which health effects are not likely to occur. A hazard index of less than 1.0 means that adverse health effects are not expected. Within this analysis, non-carcinogenic exposures of less than 1.0 are considered less than significant.

This HRA evaluates potential health risks associated with the emission of DPM resulting from Project implementation. Construction equipment and associated heavy-duty truck traffic generate diesel exhaust, which is a known TAC. Diesel exhaust from construction equipment operating at the site poses a health risk to nearby sensitive receptors. Operational activities would also include the use of heavy-duty diesel trucks.

Construction Sources

Construction would generate DPM emissions from the use of off-road diesel equipment required for demolition, grading and excavation, paving, and other construction activities. For construction activity, DPM is the primary toxic air contaminant of concern. On-road diesel-powered haul trucks traveling to and from the construction area to deliver materials and equipment were included in the analysis, although they are typically less of a concern because they would not stay on the site for long durations. Diesel exhaust from construction equipment operating at the Project site potentially poses a health risk to nearby sensitive receptors. The nearest sensitive that will be impacted by the Project are the live work and townhome residences to the west of the Project as the one existing single-family residence to the south will be demolished as part of the Project.

Health-related risks associated with diesel-exhaust emissions are primarily linked to long-term exposure and the associated risk of contracting cancer. The use of diesel-powered construction equipment would be episodic and would occur throughout the Project site. Construction activities would limit idling to no more than 5 minutes, which would further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions. Furthermore, even during the most intense period of construction, DPM emissions would be generated from different locations on the Project site rather than in a single location because different types of construction activities (e.g., site preparation and building construction) would not occur at the same place at the same time. Construction emission rates for PM_{10} (DPM) were calculated from the CalEEMod construction emissions modeling conducted for the Project Greenhouse Gas Emissions Assessment. The Project's construction activities are anticipated to occur over approximately 18 months, starting as early as Spring 2024 and ending Fall 2025.[1] However, this analysis has conservatively assumed construction would occur over 2 years, exposing receptors to more construction emissions.

Operational Sources

Mobile Sources. The Project is located near existing residential uses. Due to the increased truck traffic from the Project, the resulting emissions could result in pollutant concentrations at existing nearby sensitive receptors. The Project's average daily truck trips were obtained from the *Traffic Impact Assessment* (Kimley-Horn and Associates 2024). The Transportation Assessment calculated that the Project would generate 75 one-way truck trips daily (or 38 trucks traveling in and out of the site). Using data from the Air Quality Study, it is assumed the mix of trucks accessing the Project site

[1] As the Project development is speculative, a conservative worst-case construction timeline has been modeled for analysis purposes. This involves modeling emissions at the earliest feasible date. Emissions in future years (i.e., due to a later construction start date or operational opening year) would be lower due to phased-in emissions standards, inspection and maintenance requirements, and fleet turnover). Project construction that occurs at a later date than what was modeled impacts would result in lower emissions than those analyzed due to the use of more energy-efficient and cleaner burning construction vehicle fleet mix, pursuant to state regulations that require vehicle fleet operators to phase-in less polluting heavy-duty equipment. As a result, Project-related construction emissions would be lower than the impacts disclosed herein. For emissions modeling purposes, conservatively analyzing the emissions using an earlier construction start date provides for a worst-case analysis and full disclosure of potential air quality impacts, as required by CEQA.

would be 30% heavy trucks, 15% medium trucks, and 55% light trucks. In addition, to estimate emissions during special events, 3 additional trucks were added. Therefore, this HRA conservatively assumes operational emissions are equal to 41 trucks traveling to and from the Project site daily. An emission rate for PM_{10} (DPM) was calculated using trip data and a CARB 2021 EMission FACtor model (EMFAC) model run for Los Angeles County; refer to Appendix B-1. EMFAC generates emission factors in terms of grams of pollutant emitted per vehicle activity and can calculate a matrix of emission factors at specific values of vehicle speed and type (CARB 2021). The model was run for heavy-duty diesel vehicles traveling along off-site roads, circulating on the Project site, and idling at the proposed loading docks.

Dispersion Modeling

The HRA's construction and operational air dispersion modeling was performed using the U.S. EPA AERMOD dispersion model. AERMOD is a steady-state, multiple-source, Gaussian dispersion model designed for use with emission sources situated in terrain where ground elevations can exceed the stack heights of the emission sources. AERMOD requires hourly meteorological data consisting of wind vector, wind speed, temperature, stability class, and mixing height. Surface and upper air meteorological data is provided by the SCAQMD. Surface and upper air meteorological data from the Long Beach Airport Monitoring Station was selected as being the most representative for meteorology based on proximity to the Project site.

The model's emission sources are line volume sources (consisting of smaller adjacent volume sources) for construction and truck operations. Off-road construction equipment operating on site and on-road construction equipment (hauling materials to and from the Project site) were assigned a release height of 9 feet (2.85 meters) and a plume height of 18.7 feet (5.7 meters) based on a vehicle height of 11 feet (3.35 meters). The operational sources (i.e., heavy-duty diesel vehicles traveling along off-site roads, circulating on the Project site, and idling at the proposed loading docks) were assigned a release height of 11.5 feet (3.53 meters) and a plume height of 23 feet (7.06 meters) based on a vehicle height of 13.6 feet (4.15 meters). Release height and plume height are based on U.S. EPA guidance for vehicle volume sources (EPA 2012).

AERMOD was run to obtain the peak 1-hour and annual average (period) concentration in micrograms per cubic meter (µg/m3) of PM_{10} at the nearby sensitive receptors. According to the SCAQMD's Supplemental Guidelines for Preparing Risk Assessments for AB 2588, air dispersion modeling is required to estimate annual average concentrations to calculate the Maximally Exposed Individual Resident (MEIR), the maximum chronic HI, the zones of impact, and excess cancer burden. To achieve these goals, a receptor grid was placed over the nearest sensitive receptors to cover the zone of impact. According to the SCAQMD, "to identify the maximum impacted receptors (i.e., peak cancer risk and peak hazard indices), a grid spacing of 100 meters or less must be used" (SCAQMD Supplemental Guidelines page 16). Due to the size of the Project site, receptors were modeled with a maximum of 20-meter grid spacing. In addition, National Elevation Dataset (NED) terrain data was imported into AERMOD for the Project site. The modeling and analysis were prepared in accordance with the SCAQMD Modeling Guidance for AERMOD (SCAQMD 2023b).

Note that the concentration estimate developed using this methodology is conservative and is not a specific prediction of the actual concentrations that would occur at the Project site any given point in time. Actual 1-hour and annual average concentrations are dependent on many variables, particularly

the number and types of vehicles and equipment operating at specific distances during time periods of adverse meteorology. A health risk computation was performed to determine the risk of developing an excess cancer risk calculated on these worst-case exposure duration scenarios. The chronic and carcinogenic health risk calculations are based on the standardized equations contained in the OEHHA Guidance Manual. Only the risk associated with the Project's worst-case location was assessed.

Risk and Hazard Assessment

Cancer Risk. Based on the OEHHA methodology, the residential inhalation excess cancer risk from annual average DPM and benzene concentrations is calculated by multiplying the daily inhalation dose, cancer potency factor, age sensitivity factor (ASF), frequency of time spent at home, and exposure duration divided by averaging time. These factors are discussed in more detail below. It is important to note that exposure duration is based on continual heavy truck operation along nearby roadways. Exposure through inhalation (dose-air) is a function of breathing rate, exposure frequency, and concentration of substance in the air. To estimate cancer risk, the dose was estimated by applying the following formula to each ground-level concentration:

$$\text{Dose-air} = C_{air} * (BR/BW) * A * EF * 10^{-6}$$

Dose-air =	dose through inhalation (mg/kg/day)
C_{air} =	air concentration (µg/m^3) from air dispersion model
(DBR/BW) =	daily breathing rate normalized to body weight (L/kg bodyweight-day)
A =	inhalation absorption factor (unitless)
EF =	exposure frequency (approximately 350 days per year for residential)
10^{-6} =	conversion factor (micrograms to milligrams, liters to cubic meters)

OEHHA developed ASFs to consider the increased sensitivity to carcinogens during early-life exposure. In the absence of chemical-specific data, OEHHA recommends default ASFs presented in Table 3.1-8. Fraction of time at home (FAH) during the day is used to adjust exposure duration and cancer risk from a specific facility's emissions, based on the assumption that exposure to the facility's emissions is not occurring away from home. OEHHA recommends the FAH values presented in Table 3.1-8.

Table 3.1-8. Age Sensitivity Factors, Fraction of Time at Home, and Daily Breathing Rates

Age	Exposure Frequency (days/year)	Exposure Duration (years)	Age Sensitivity Factor[1] (ASF)	Fraction of Time at Home (FAH)	Daily Breathing Rate (L/kg BW-day[2])
Residential					
Third trimester	350	0.25	10	100%	361
0 to 2 years	350	2	10	100%	1,090
Ages 2 through 8 years	350	7	3	100%	631
Ages 9 through 15 years	350	7	3	100%	572
Ages 16 and greater	350	14	1	73%	261

Table 3.1-8. Age Sensitivity Factors, Fraction of Time at Home, and Daily Breathing Rates

Age	Exposure Frequency (days/year)	Exposure Duration (years)	Age Sensitivity Factor[1] (ASF)	Fraction of Time at Home (FAH)	Daily Breathing Rate (L/kg BW-day[2])
Worker[3]	250	25	1	N/A	230
Student[3]	180	9	3	N/A	640

Source: OEHHA 2015; SCAQMD 2017.

1 Accounts for potential increased sensitivity to carcinogens during childhood.
2 Daily breathing rate normalized to body weight (L/kg body weight - day) (95th percentile for 3rd trimester to 2 years and 80th percentile for other age groups).
3 Worker and Student breathing rates are 95th percentile 8-hour breathing rates based on moderate intensity activity.

To estimate the cancer risk, the dose is multiplied by the cancer potency factor, the ASF, the exposure duration divided by averaging time, and the frequency of time spent at home (for residents only):

$$Risk_{inh\text{-}res} = (Dose_{air} * CPF * ASF * (ED/AT) * FAH)$$

$Risk_{inh\text{-}res}$ = residential inhalation cancer risk (potential chances per million)
$Dose_{air}$ = daily dose through inhalation (mg/kg-day)
CPF = inhalation cancer potency factor ($mg/kg\text{-}day^{-1}$)
ASF = age sensitivity factor for a specified age group (unitless)
ED = exposure duration (years)
AT = averaging time of lifetime cancer risk (years)
FAH = fraction of time spent at home (unitless)

Chronic Non-Cancer Hazard. The non-cancer chronic hazard is calculated by dividing the annual average concentration by the REL for that substance. The REL is defined as the concentration at which no adverse non-cancer health effects are anticipated. The following equation was used to determine the non-cancer chronic hazard:

$$\text{Hazard Quotient} = C_i/REL_i$$

C_i = concentration in the air of substance I (annual average concentration in $\mu g/m^3$)
REL_i = chronic noncancer Reference Exposure Level for substance ($\mu g/m^3$)

Health Risk Computation. A health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 30-year exposure scenario using the approach described in the OEHHA *Air Toxics Program Guidance Manual for the Preparation of Health Risk Assessments* (February 2015) and the daily breathing rates, age sensitivity factors, exposure duration, and fraction of time at home specified in the SCAQMD, Permit Application Package "N" Risk Assessment Procedures for Rules 1401, 1401.1, and 212 Version 8.1 (refer to Table 3.1-8). Health risks were analyzed at the point of maximum impact and are a conservative estimate. The pollutant concentrations are then used to estimate the long-term cancer health risk to an individual as well as the non-cancer chronic health index.

The off-site impacts would occur from the diesel trucks accessing the Project site. The cancer and chronic health risks are based on the annual average concentration of PM_{10} (used as a proxy for DPM). As noted above, the chronic and carcinogenic health risk calculations are based on the standardized equations contained in the U.S. EPA *Human Health Evaluation Manual* (1991) and the OEHHA Guidance Manual (2015).

The localized effects from the Project's on-site emissions were evaluated in accordance with the SCAQMD's Localized Significance Threshold (LST) Methodology, which uses on-site mass emissions rate look-up tables and Project-specific modeling. LSTs represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable NAAQS or CAAQS and are developed based on the ambient concentrations of that pollutant for each source receptor area and distance to the nearest sensitive receptor.

Laws, Ordinances, and Regulations (LORs)

Standard Conditions are existing requirements and conditions of approval that are based on local, state, or federal regulations or laws that are frequently required independent of CEQA review. Typical standard conditions and requirements include compliance with the provisions of the Building Code, SCAQMD Rules, etc. The City may impose additional conditions during the approval process, as appropriate. Because Standard Conditions are neither project specific nor a result of project development, they are not Mitigation Measures.

LOR AQ-1. Prior to the issuance of grading permits, the City Engineer shall confirm that the Grading Plan, Building Plans, and Specifications require all construction contractors to comply with South Coast Air Quality Management District (South Coast AQMD) Rules 402 and 403 to minimize construction dust and particulate emissions. The measures include, but are not limited to, the following:

- Portions of a construction site to remain inactive longer than a period of three months will be seeded and watered until grass cover is grown or otherwise stabilized.
- All on-site roads will be paved as soon as feasible or watered periodically or chemically stabilized.
- All material transported off site will be either sufficiently watered or securely covered to prevent excessive amounts of dust.
- The area disturbed by clearing, grading, earthmoving, or excavation operations will be minimized at all times.
- Where vehicles leave a construction site and enter adjacent public streets, the streets will be swept daily or washed down at the end of the workday to remove soil tracked onto the paved surface.

LOR AQ-2. The applicant shall require by contract specifications that the interior and exterior architectural coating (paint and primer including parking lot paint) products used comply with South Coast AQMD Rule 1113 which requires building envelope coatings to have a volatile organic compound rating of 50 grams per liter or less.

LOR AQ-3. Require diesel powered construction equipment to turn off when not in use per California Code of Regulations, Title 13, Section 2449.

LOR AQ-4. Install water-efficient irrigation systems and devices, such as soil moisture-based irrigation controls and sensors for landscaping according to the City's Water Efficient Landscape requirements (Gardena Municipal Code Chapter 15.60 - Adoption of the California Model Water Efficient Landscape Ordinance).

LOR AQ-5. The Project shall be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every three years, to incorporate improved energy efficiency technologies and methods. The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. Title 24 Energy Efficiency Standards Section 110.10 requires buildings to be designed to have 15 percent of the roof area "solar ready" that will structurally accommodate later installation of rooftop solar panels. If future building operators pursue providing rooftop solar panels, they will submit plans for solar panels prior to the issuance of occupancy permits.

LOR AQ-6. The Project shall be designed in accordance with the applicable California Green Building Standards (CALGreen) Code (24 CCR, Part 11). The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. These requirements include, but are not limited to:

- Design buildings to be water-efficient. Install water-efficient fixtures in accordance with California Green Building Standards Code Part 11, Section 5.303 (nonresidential).
- Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with California Green Building Standards Code Part 11, Section 5.408.1 (nonresidential).
- Provide storage areas for recyclables and green waste and adequate recycling containers located in readily accessible areas in accordance with California Green Building Standards Code Part 11, Section 5.410 (nonresidential).
- Provide designated parking for any combination of low-emitting, fuel efficient and carpool/van pool vehicles. At least eight percent of the total parking spaces are required to be designated in accordance with California Green Building Standards Code Part 11, Section 5.106.5.2 (nonresidential) - Designated Parking for Clean Air Vehicles.
- To facilitate future installation of electric vehicle supply equipment (EVSE), nonresidential construction shall comply with California Green Building Standards Code Part 11, Section 5.106.5.3 (nonresidential electric vehicle charging).

3.1.5 Impact Analysis

Threshold AQ-1: Would the Project conflict with or obstruct implementation of the applicable air quality plan?

As part of its enforcement responsibilities, the EPA requires each state with nonattainment areas to prepare and submit a State Implementation Plan that demonstrates the means to attain the NAAQS. The State Implementation Plan must integrate federal, state, and local plan components and regulations to identify specific measures to reduce pollution in nonattainment areas, using a combination of performance standards and market-based programs. Similarly, under state law, the CCAA requires an air quality attainment plan to be prepared for areas designated as nonattainment

regarding the CAAQS and NAAQS. Air quality attainment plans outline emissions limits and control measures to achieve and maintain these standards by the earliest practical date.

The Project is located within the SCAB, which is under the jurisdiction of the SCAQMD. The SCAQMD is required, pursuant to the FCAA, to reduce criteria pollutant emissions for which the SCAB is in nonattainment. To reduce such emissions, the SCAQMD adopted the 2016 and 2022 AQMPs (AQMPs). The AQMPs establish a program of rules and regulations directed at reducing air pollutant emissions and achieving CAAQS and NAAQS. The AQMPs are a regional and multi-agency effort including the SCAQMD, the CARB, the SCAG, and the EPA. The AQMPs pollutant control strategies are based on the latest scientific and technical information and planning assumptions, including SCAG's RTP/SCS, updated emission inventory methodologies for various source categories, and SCAG's latest growth forecasts. SCAG's latest growth forecasts were defined in consultation with local governments and with reference to local general plans. The Project is subject to the AQMPs.

Criteria for determining consistency with the AQMPs are defined by the following indicators:

- Consistency Criterion No. 1: The Project will not result in an increase in the frequency or severity of existing air quality violations, or cause or contribute to new violations, or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMPs.
- Consistency Criterion No. 2: The Project will not exceed the assumptions in the AQMPs or increments based on the years of the Project build-out phase.

According to the SCAQMD's *CEQA Air Quality Handbook*, the purpose of the consistency finding is to determine if a project is inconsistent with the assumptions and objectives of the regional air quality plans, and thus if it would interfere with the region's ability to comply with CAAQS and NAAQS.

The violations to which Consistency Criterion No. 1 refers are CAAQS and NAAQS. As shown in Table 3.1-9 and Table 3.1-10, Project construction and operational emissions would not exceed the regional thresholds that are established to help the SCAB achieve air quality standards. In addition, as shown in Table 3.1-12 and Table 3.1-13, the project would not exceed the LST thresholds established by SCAQMD to determine if a project would cause an air quality violation of the CAAQS or NAAQS. Therefore, the Project would not contribute to an existing air quality violation. Thus, the Project is consistent with the first criterion.

Concerning Consistency Criterion No. 2, the AQMPs contain air pollutant reduction strategies based on SCAG's latest growth forecasts, which were defined in consultation with local governments and with reference to local general plans. As discussed in the *General Plan and Zoning* Section above, the Project is designated as Specific Plan and zoned as 1450 Artesia Specific Plan, which will allow commercial and industrial uses. At the time the AQMP was adopted, the property was zoned as Artesia Corridor Specific Plan, which designates the Project site as Commercial and Mixed Use. It was anticipated there would be development of a minimum of 80,000 SF of commercial uses in Area 5 and a minimum of 70,000 square feet of commercial development in Area 4. To date there has been no commercial development in Area 5 and approximately 10,000 square feet of commercial development in Area 4. The 1450 Artesia Specific Plan would allow up to 186,000 GSF of self-storage use, 72,000 GSF of industrial use, and 10,000 GSF of office/retail use on the Project site. Although the Project proposes more intense development on the Project site than the Artesia Corridor Specific Plan anticipated, the majority of the Project would be locally-serving (self-storage portion) and the

overall development would generate only approximately 40 jobs.[2] This growth equates to approximately 1.4% of the total employment growth that is projected to occur between 2020 and 2045 and approximately 21% of the growth that is expected to occur between the time of this writing (2022) and the Project's anticipated buildout year (2024). Therefore, the Project would be consistent with the land use designation and development density presented in the City's General Plan at the time the AQMP was developed and therefore would not exceed the population or job growth projections used by the SCAQMD to develop the AQMPs. Thus, the Project is consistent with the second criterion.

Based on these criteria, the Project would not conflict with or obstruct implementation of the AQMPs, and as such impacts would be **less than significant**.

Threshold AQ-2: Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?

Construction Emissions

Project construction activities would generate short-term emissions of criteria air pollutants. The criteria pollutants of primary concern within the Project area are O_3-precursor pollutants (i.e., ROG and NO_X) and PM_{10} and $PM_{2.5}$. Construction-related emissions are short term and of temporary duration, lasting only as long as construction activities occur, but would be considered a significant air quality impact if the volume of pollutants generated exceeds the SCAQMD's thresholds of significance.

Construction results in the temporary generation of emissions resulting from site grading, road paving, motor vehicle exhaust associated with construction equipment and worker trips, and the movement of construction equipment, especially on unpaved surfaces. Emissions of airborne particulate matter are largely dependent on the amount of ground disturbance associated with site preparation activities as well as weather conditions and the appropriate application of water. Fugitive dust emissions may have a substantial, temporary impact on local air quality. In addition, fugitive dust may be a nuisance to those living and working in the Project vicinity. Uncontrolled dust from construction can become a nuisance and potential health hazard to those living and working nearby.

Project construction activities are estimated to be completed within 18 months, beginning in mid-2024 and finishing December 2025. The construction schedule used in the analysis represents a "worst-case" analysis scenario since emission factors for construction equipment decrease as the analysis year increases due to improvements in technology and more stringent regulatory requirements. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required pursuant to CEQA guidelines. The Project's construction-related emissions were calculated using the CARB-approved CalEEMod computer program, which is designed to model emissions for land use development projects, based on typical construction requirements. See Appendix B-1 of this EIR for more information regarding the construction assumptions used in this analysis. Table 3.1-9 provides the Project's predicted maximum daily construction-related emissions and indicates all criteria pollutant emissions would remain below their respective thresholds. Notwithstanding, SCAQMD Rules 402 and

[2] Sorenson, Brian. 2022. Personal Correspondence.

403 (prohibition of nuisances, watering of inactive and perimeter areas, track out requirements, etc.), are applicable to the Project and were applied in CalEEMod to minimize fugitive dust emissions. Laws, Ordinances, and Regulations (LORs) were incorporated in the Project assumptions for analysis and are listed below as LOR measures. LOR AQ-1 requires the implementation of Rule 402 and 403 dust control techniques to minimize PM_{10} and $PM_{2.5}$ concentrations.[3] As required by law, all architectural coatings for the Project structures would be subject to compliance with SCAQMD Rule 1113, which provides specifications on painting practices and regulates the ROG content of paint. LOR AQ-2 requires implementation of Rule 1113, which limits the VOC content of paint to 50 grams per liter or less.[4,5] Compliance with LOR AQ-1 and LOR AQ-2 would be required to ensure compliance with SCAQMD Rules and Regulations, which would be verified and enforced through the City's development review process.

Table 3.1-9. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions – Unmitigated

Construction Year	Maximum Pounds Per Day					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Year 1 (2024)	3.72	36.03	34.27	0.05	3.17	1.53
Year 2 (2025)	21.60	13.13	18.57	0.03	1.64	0.72
SCAQMD *Threshold*	*75*	*100*	*550*	*150*	*150*	*55*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod version 2022.1. Refer to Appendix B-1 for model outputs.
Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District.

SCAQMD Rule 403 Fugitive Dust applied. The Rule 403 reduction/credits include the following: properly maintain mobile and other construction equipment; water exposed surfaces three times daily; and limit speeds on unpaved roads to 15 miles per hour. Reductions percentages from the SCAQMD CEQA Handbook (Tables XI-A through XI-E) were applied. No adjustments were applied to equipment exhaust. Refer to Appendix B-1 for Model Data Outputs. The highest values between summer and winter results were used as a worst-case scenario.

While impacts would be considered **less than significant**, the Project would still be subject to SCAQMD Rules 401, 402, 403, 431.2, and 1113, described in the Regulatory Framework subsection above and required by Standard Conditions AQ-1 and AQ-2.

[3] Standard Conditions are existing requirements and conditions of approval that are based on local, state, or federal regulations or laws that are frequently required independently of CEQA review. Applicable Standard Conditions are included at the end of this impact analysis.
[4] Applicable Laws, Ordinances, and Regulations are included at the end of this impact analysis.
[5] For analysis purposes, VOCs and ROGs both represent organic compounds and these terms are used interchangeably.

Operational Emissions

The Project's operational emissions would be primarily associated with motor vehicle use and area sources, such as the use of landscape maintenance equipment, hearths, consumer products, and architectural coatings. Table 3.1-10 provides the Project's long-term operational emissions, which consider the land uses that would be removed, the proposed mixed-use development, and the special events. As shown in Table 3.1-10, the Project's operational emissions would remain below the SCAQMD's thresholds. Therefore, the Project's operational air pollutant emissions would be less than significant, and no mitigation is required. Note that emissions rates differ from summer to winter because different weather patterns affect pollutant mixing, dispersion, O_3 formation, and other factors.

Table 3.1-10. Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

Source	Maximum Pounds Per Day[1]					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Existing Conditions[2]						
Area	0.36	0.36	3.41	0.01	0.59	0.15
Energy	0.58	0.00	0.52	0.00	0.00	0.00
Mobile[2]	0.01	0.11	0.09	0.00	0.01	0.01
Total Emissions	**0.95**	**0.47**	**4.02**	**0.01**	**0.60**	**0.16**
Proposed Project[3]						
Maximum Emissions						
Area	6.12	0.07	8.52	0.00	0.02	0.01
Energy	0.07	1.33	1.12	0.01	0.10	0.10
Mobile - Automobiles	2.16	1.83	19.37	0.05	4.30	1.11
Mobile – Trucks	0.29	6.18	3.22	0.03	2.74	0.81
Mobile – Special Events[3]	0.73	0.62	6.55	0.02	1.46	0.38
Stationary – Backup Generators[4]	0.90	2.51	2.29	0.00	0.13	0.13
Total Emissions	**10.27**	**12.54**	**41.07**	**0.13**	**8.74**	**2.54**
Net Emissions						
Existing Conditions	0.95	0.47	4.02	0.01	0.60	0.16
Proposed Project Net Change	**9.32**	**12.06**	**37.04**	**0.12**	**8.14**	**2.37**
SCAQMD Significance Thresholds	55	55	550	150	150	55
Thresholds Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Source: CalEEMod version 2022.1. Refer to Appendix B-1 for model outputs.
Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District.

1 Total values are from CalEEMod and may not add up 100% due to rounding. The highest values between summer and winter results were used as a worst-case scenario.

2 Two commercial uses (i.e., a U-Haul dealer and sandblasting service) totaling approximately 12,064 GSF (circa 1950) with associated surface parking currently occupy the Project site.

[3] Includes special events, which would be held approximately two to three times per month, including weekday evening events (after 6 p.m.) and weekend daytime events.
[4] Per Mitigation Measures GHG-1 from the Project's Greenhouse Gas Emissions Assessment, all off-road vehicles will be electric and will not produce air quality emissions. Stationary source emissions for one generator were calculated using default emissions rates from CalEEMod.

Cumulative Short-Term Emissions

The SCAB is designated nonattainment for O_3, PM_{10}, and $PM_{2.5}$ for CAAQS and nonattainment for O_3 and $PM_{2.5}$ for NAAQS. Appendix D of the SCAQMD White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution (SCAQMD 2003) notes that projects that result in emissions that do not exceed the project-specific SCAQMD regional thresholds of significance should result in a less-than-significant impact on a cumulative basis unless there is other pertinent information to the contrary. Therefore, if a project is estimated to result in emissions that do not exceed the thresholds, the project's contribution to the cumulative air quality impact in the SCAB would not be cumulatively considerable. As shown in Table 3.1-10 above, Project construction-related emissions by themselves would not exceed the SCAQMD significance thresholds for criteria pollutants. Therefore, the Project would not generate a cumulatively considerable contribution to air pollutant emissions during construction.

The SCAQMD has developed strategies to reduce criteria pollutant emissions outlined in the AQMPs pursuant to the FCAA mandates. The analysis assumed fugitive dust controls would be utilized during construction, including frequent water applications. SCAQMD rules, mandates, and compliance with adopted emissions control measures with the AQMPs would also be imposed on construction projects throughout the SCAB, which would include related projects. Compliance with SCAQMD rules and regulations would further reduce Project construction-related emissions. Therefore, Project-related construction emissions, combined with those from other projects in the area, would not substantially deteriorate local air quality. The Project's construction-related emissions would not result in a cumulatively considerable contribution to significant cumulative air quality impacts. Impacts would be **less than significant**.

Cumulative Long-Term Impacts

The SCAQMD has not established separate significance thresholds for cumulative operational emissions. The nature of air emissions is largely a cumulative impact. As a result, no single project is sufficient in size to, by itself, result in nonattainment of ambient air quality standards. Instead, individual project emissions contribute to existing cumulatively significant adverse air quality impacts. The SCAQMD developed the operational thresholds of significance based on the level above which individual project emissions would result in a cumulatively considerable contribution to the SCAB's existing air quality conditions. Therefore, a project that exceeds the SCAQMD operational thresholds would also be a cumulatively considerable contribution to a significant cumulative impact. As shown in Table 3.1-10, Project operational emissions would not exceed the SCAQMD thresholds. Therefore, the Project's operational emissions would not result in a cumulatively considerable contribution to significant cumulative air quality impacts. Impacts would be **less than significant**.

Threshold AQ-3: Would the Project expose sensitive receptors to substantial pollutant concentrations?

Localized Construction Significance Analysis

The nearest sensitive receptors are the Live/Work multi-family residences adjacent/west of the Project site. To identify impacts to sensitive receptors, the SCAQMD recommends addressing construction LSTs. LSTs were developed in response to SCAQMD Governing Boards' Environmental Justice Enhancement Initiative (I-4). The SCAQMD provided the Final Localized Significance Threshold Methodology (dated June 2003 [revised 2008]) for guidance. The LST methodology assists lead agencies in analyzing localized impacts associated with project-specific emissions.

Since CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily soil disturbance activity possible for each piece of equipment, Table 3.1-11, is used to determine the maximum daily disturbed acreage for comparison to LSTs. The Project is located within SRA 3 (Southwest Costal LA County). LSTs apply to CO, NO_2, PM_{10}, and $PM_{2.5}$. The SCAQMD produced look-up tables for projects that disturb areas less than or equal to 5.0 acres in size. Project construction is anticipated to disturb a maximum of 2.5 acres in a single day. As the LST guidance provides thresholds for projects disturbing 1.0, 2.0, and 5.0 acres in size and the thresholds increase with size of the site, the LSTs for a 2.5-acre threshold were interpolated and utilized for this analysis.

Table 3.1-11. Equipment-Specific Grading Rates

Construction Phase	Equipment Type	Equipment Quantity	Acres Graded per 8-Hour Day	Operating Hours per Day	Acres Graded per Day
Grading	Tractors	3	0.5	8	1.5
	Graders	1	0.5	8	0.5
	Dozers	1	0.5	8	0.5
				Total Acres Graded per Day	**2.5**

Source: CalEEMod version 2022.1. Refer to Appendix B-1 for model outputs.

The SCAQMD's methodology states that "off-site mobile emissions from the project should not be included in the emissions compared to LSTs." Therefore, only "on-site" emissions included in the CalEEMod outputs were considered. The nearest sensitive receptors are the Live/Work multi-family residences adjacent/west of the Project site. LST thresholds are provided for distances to sensitive receptors of 25, 50, 100, 200, and 500 meters. SCAQMD's LST guidance recommends using the 25-meter threshold for receptors located 25 meters or less from a project site. Therefore, the LSTs for 2.5 acres at 25 meters were used for the Project's construction analysis, which is consistent with the SCAQMD LST methodology. Table 3.1-12 presents the results of the Project's localized unmitigated emissions during each construction phase. Table 3.1-12 shows the Project's pollutant emissions on the peak day of construction without any mitigations or dust control measures.

Table 3.1-12. Localized Significance of Construction Emissions – Unmitigated

Construction Activity	Maximum Pounds Per Day			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Demolition	24.89	21.74	1.06	0.98
Site Preparation	35.95	32.93	1.60	1.47
Grading	18.23	18.82	0.84	0.77
Building Construction	10.44	13.04	0.43	0.39
Paving	6.52	8.84	0.29	0.26
Architectural Coating	0.88	1.14	0.03	0.03
SCAQMD Localized Screening Threshold (adjusted for 2.5 acres at 25 meters)	*142*	*1,105*	*9*	*6*
Exceed SCAQMD Threshold?	**No**	**No**	**No**	**No**

Source: CalEEMod version 2022.1. Refer to Appendix B-1 for model outputs.
Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District; <0.01 = reported value less than 0.01.

As shown in Table 3.1-12, the Project would not exceed the applied SCAQMD localized screening thresholds at the nearest receptor. Therefore, the Project would result in a less-than-significant impact concerning LSTs during construction.

Localized Operational Significance Analysis

According to the SCAQMD LST methodology, LSTs would apply to the operational phase of a project only if it includes stationary sources or attracts mobile sources that may spend long periods queuing and idling at a site (e.g., warehouse or transfer facilities). Since the Project contains self-storage and warehouse uses, the operational phase LST protocol is conservatively applied to both the area source and 20% the mobile source emissions. LST thresholds for receptors were used for 25 meters because the sensitive receptors are adjacent/south and west of the Project site, using SCAQMD methodology. Although the Project site is approximately 6.59 acres, the 5.0-acre LST threshold was also conservatively used for the Project, as the LSTs increase with the site's size. The LST analysis only includes on-site sources. However, the CalEEMod model outputs do not separate on- and off-site emissions for mobile sources. For a worst-case scenario assessment, the emissions shown in Table 3.1-13, conservatively includes all on-site Project-related stationary sources and 20% of the Project-related new mobile sources, since a portion of mobile sources could include trucks idling on site and that trucks account for roughly 10% of trip generation.

Table 3.1-13 shows that the maximum daily pollutant emissions during operations would not exceed SCAQMD thresholds at the nearest sensitive receptors. Therefore, the Project would result in a **less-than-significant** impact concerning LSTs during operations.

Table 3.1-13. Localized Significance of Operational Emissions

Activity	Maximum Pounds Per Day			
	NO_X	CO	PM_{10}	$PM_{2.5}$
On-Site and 20% Mobile Emissions	5.64	17.76	1.95	0.70
SCAQMD Localized Screening Threshold (5.0 acres at 25 meters)	*142*	*1,105*	*2*	*1*
Exceed SCAQMD Threshold?	**No**	**No**	**No**	**No**

Source: CalEEMod version 2022.1. Refer to Appendix B-1 for model outputs.
Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; SCAQMD = South Coast Air Quality Management District; <0.01 = reported value less than 0.01.

Criteria Pollutant Health Impacts

On December 24, 2018, the California Supreme Court issued an opinion identifying the need to provide sufficient information connecting a project's air emissions to health impacts or explain why such information could not be ascertained (*Sierra Club v. County of Fresno* [Friant Ranch, L.P.] [2018] Cal.5th, Case No. S219783).

The Friant Ranch project was a 942-acre Specific Plan that involved a commercial master planned community of approximately 2,500 dwelling units and extensive commercial supporting development. The anticipated air quality impacts resulting from this development included significant and unavoidable emissions of multiple criteria pollutants (including significant emissions of both primary O_3 precursors [NO_X and ROGs]) at levels that exceeded the daily thresholds of significance. As noted above and shown in Table 3.1-11, the Project's operational emissions are below SCAQMD's significance thresholds, resulting in a less-than-significant impact.

The SCAQMD has set its CEQA significance thresholds based on the Federal CAA, which defines a major stationary source (in extreme ozone nonattainment areas such as the SCAB) as emitting 10 tons per year. The thresholds correlate with the trigger levels for the federal New Source Review (NSR) Program and SCAQMD Rule 1303 for new or modified sources. The NSR Program[6] was created by the Federal CAA to ensure that stationary sources of air pollution are constructed or modified in a manner that is consistent with attainment of health-based NAAQS. The NAAQS establish the levels of air quality necessary, with an adequate margin of safety, to protect the public health. Therefore, projects that do not exceed the SCAQMD's LSTs and mass emissions thresholds would not violate any air quality standards or contribute substantially to an existing or projected air quality violation and no criteria pollutant health impacts would occur.

NO_X and ROG are precursor emissions that form ozone in the atmosphere in the presence of sunlight where the pollutants undergo complex chemical reactions. It takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources. Breathing ground-level ozone can result in health effects that include

[6] Code of Federal Regulation (CFR) [i.e., PSD (40 CFR 52.21, 40 CFR 51.166, 40 CFR 51.165 (b)), Non-attainment NSR (40 CFR 52.24, 40 CFR 51.165, 40 CFR part 51, Appendix S).

reduced lung function, inflammation of airways, throat irritation, pain, burning, or discomfort in the chest when taking a deep breath, chest tightness, wheezing, or shortness of breath. In addition to these effects, evidence from observational studies strongly indicates that higher daily ozone concentrations are associated with increased asthma attacks, increased hospital admissions, increased daily mortality, and other markers of morbidity. The consistency and coherence of the evidence for effects upon asthmatics suggests that ozone can make asthma symptoms worse and can increase sensitivity to asthma triggers.

According to the SCAQMD AQMPs, ozone, NO_X, and ROG have been decreasing in the SCAB since 1975 and are projected to continue to decrease in the future. Although vehicle miles traveled in the SCAB continue to increase, NO_X and ROG levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO_X emissions from electric utilities have also decreased due to the use of cleaner fuels and renewable energy. The 2022 AQMP demonstrates how the SCAQMD's control strategy to meet the 2015 federal ozone standard by 2037 and would lead to sufficient NO_X emission reductions (SCAQMD 2022). In addition, since NO_X emissions also lead to formation of $PM_{2.5}$, the NO_X reductions needed to meet the ozone standards will likewise lead to improved $PM_{2.5}$ levels and attainment of $PM_{2.5}$ standards.

The SCAQMD's air quality modeling demonstrates that NO_X reductions prove to be much more effective in reducing ozone levels and will also lead to significant improvement in $PM_{2.5}$ concentrations. NO_X-emitting stationary sources regulated by the SCAQMD include Regional Clean Air Incentives Market (RECLAIM) facilities (e.g., refineries, power plants, etc.), natural gas combustion equipment (e.g., boilers, heaters, engines, burners, flares) and other combustion sources that burn wood or propane. The AQMPs identify robust NO_X reductions from new regulations on RECLAIM facilities, non-refinery flares, commercial cooking, and residential and commercial appliances. Such combustion sources are already heavily regulated with the lowest NO_X emissions levels achievable but there are opportunities to require and accelerate replacement with cleaner zero-emission alternatives, such as residential and commercial furnaces, pool heaters, and backup power equipment. The SCAQMD plans to achieve such replacements through a combination of regulations and incentives. Technology-forcing regulations can drive development and commercialization of clean technologies, with future year requirements for new or existing equipment. Incentives can then accelerate deployment and enhance public acceptability of new technologies.

As previously discussed, localized effects of on-site Project emissions on nearby sensitive receptors were found to be less than significant (refer to Table 3.1-12 and Table 3.1-13). The LSTs represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable CAAQS or NAAQS. The LSTs were developed by the SCAQMD based on the ambient concentrations of that pollutant for each SRA and distance to the nearest sensitive receptor. The ambient air quality standards establish the levels of air quality necessary, with an adequate margin of safety, to protect public health, including protecting the health of sensitive populations. Information on health impacts related to exposure to ozone and particulate matter emissions published by the U.S. EPA and CARB have been summarized above and discussed in the Regulatory Framework section. As shown above, Project-related emissions would not exceed the regional thresholds or the LSTs, and therefore would not exceed the ambient air quality standards or cause an increase in the frequency or severity of existing violations of air quality standards. Therefore,

the Project would not expose sensitive receptors to criteria pollutant levels in excess of the health-based ambient air quality standards. Impacts would be **less than significant**.

Carbon Monoxide Hotspots

An analysis of CO "hot spots" is needed to determine whether the change in the level of service of an intersection resulting from a project would have the potential to result in exceedances of the CAAQS or NAAQS. It has long been recognized that CO exceedances are caused by vehicular emissions, primarily when vehicles are idling at intersections. Vehicle emissions standards have become increasingly stringent in the last 20 years. Currently, California's CO standard is a maximum of 3.4 grams per mile for passenger cars (requirements for certain vehicles are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities, CO concentrations have steadily declined. Accordingly, with the steadily decreasing CO emissions from vehicles, even very busy intersections do not result in exceedances of the CO standard.

The SCAB was re-designated as attainment in 2007 and is no longer addressed in the SCAQMD's AQMP. The 2003 AQMP is the most recent version that addresses CO concentrations. As part of the SCAQMD *CO Hotspot Analysis*, the Wilshire Boulevard/Veteran Avenue intersection, one of the most congested intersections in Southern California with an ADT volume of approximately 100,000 vehicles per day, was modeled for CO concentrations. This modeling effort identified a CO concentration high of 4.6 ppm, which is well below the 35-ppm NAAQS. The Project considered herein would not produce the volume of traffic required to generate a CO hot spot in the context of SCAQMD's *CO Hotspot Analysis*. As the CO hotspots were not experienced at the Wilshire Boulevard/Veteran Avenue intersection even as it accommodates 100,000 vehicles daily, it can be reasonably inferred that CO hotspots would not be experienced at any Project area intersections from the 679 ADT (from a conservatively assumed 0 daily existing trips) attributable to the Project. Therefore, impacts would be **less than significant**.

Health Risk Analysis

Project construction would generate DPM emissions from the required use of off-road diesel equipment. The amount to which the receptors are exposed (a function of concentration and duration of exposure) is the primary factor used to determine health risk (i.e., potential exposure to TAC emission levels that exceed applicable standards). Health-related risks associated with diesel-exhaust emissions are primarily linked to long-term exposure and the associated risk of contracting cancer.

A Health Risk Assessment (Project HRA) was conducted and is included in Appendix B-2 of this EIR. Project construction-related activities would result in DPM emissions from the exhaust of off-road, heavy-duty diesel equipment for demolition; site preparation (e.g., clearing, grading); building construction; paving; application of architectural coatings; on-road truck travel; and other miscellaneous construction activities. For construction activity, DPM is the primary toxic air contaminant of concern. On-road diesel-powered haul trucks traveling to and from a construction area to deliver materials and equipment are less of a concern because they would not stay on the site for long durations. Diesel exhaust from construction equipment operating at a construction site poses a health risk to nearby sensitive receptors. Refer to Appendix B-2 for analysis methodology, results, and model data.

The Project's PM_{10} exhaust construction emissions rates were calculated in grams per second based on the total annual on-site and off-site (haul and vendor trucks) construction exhaust emissions reported in CalEEMod. Construction exhaust emissions over the entire construction period were used in AERMOD, a U.S. EPA-approved dispersion model, to approximate construction DPM emissions. AERMOD is a steady-state, multiple-source, Gaussian dispersion model designed for use with emission sources situated in terrain where ground elevations can exceed the stack heights of the emission sources. AERMOD requires hourly meteorological data consisting of wind vector, wind speed, temperature, stability class, and mixing height. Uniform Cartesian receptors were used to evaluate the locations of the maximally exposed sensitive receptors. Surface and upper air meteorological data from the Long Beach Airport Monitoring Station provided by the SCAQMD was selected as being the most representative meteorology. In addition, National Elevation Dataset (NED) terrain data was imported into AERMOD for the Project site. The modeling and analysis were prepared in accordance with the SCAQMD Modeling Guidance for AERMOD.

Risk levels were calculated based on the California OEHHA guidance *Risk Assessment Guidelines* document (OEHHA 2015). SCAQMD's threshold for cancer risk is 10 in 1 million and the chronic noncancer hazard index is one. Projects that do not exceed these thresholds would not result in a significant impact. Table 3.1-14 shows the unmitigated and mitigated health risk for the Project's combined construction and operations for the closest maximally exposed individual resident (MEIR) to the Project site.

Table 3.1-14. Carcinogenic Risk Assessment

Exposure Scenario	Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold?
Construction			
Resident			
Sensitive Receptors – Unmitigated: Live/Work and Multi-Family units west of Project site[1]	30.07	10	**Yes**
Sensitive Receptors – Mitigated: Live/Work Residences west of Project Site[1,2]	4.62	10	No
Student			
Sensitive Receptors – Unmitigated: Students at Gardena Early Education Center and Gardena High School southeast of the Project Site	3.26	10	No
Sensitive Receptors – Mitigated: Students at Gardena Early Education Center and Gardena High School southeast of the Project Site	0.54	10	No
Operations			
Resident			
Sensitive Receptors - Unmitigated: Live/Work and Multi-Family units west of Project site[1,2]	288.38	10	**Yes**

Table 3.1-14. Carcinogenic Risk Assessment

Exposure Scenario	Cancer Risk (Risk per Million)	Significance Threshold (Risk per Million)	Exceeds Significance Threshold?
Sensitive Receptors - Mitigated: Live/Work Residences west of Project site[1,3]	2.09	10	No
Student			
Sensitive Receptors – Unmitigated: Students at Gardena Early Education Center and Gardena High School southeast of the Project Site	18.82	10	**Yes**
Sensitive Receptors – Mitigated: Students at Gardena Early Education Center and Gardena High School southeast of the Project Site	0.12	10	No
Combined (Construction + Operations)			
Resident			
Sensitive Receptors – Unmitigated: Live/Work and Multi-Family units west of Project site[1]	318.45	10	**Yes**
Sensitive Receptors – Mitigated: Live/Work and Multi-Family units west of Project site [1,2,3]	6.71	10	No
Student			
Sensitive Receptors – Unmitigated: Students at Gardena Early Education Center and Gardena High School southeast of the Project Site	22.09	10	**Yes**
Sensitive Receptors – Mitigated: Students at Gardena Early Education Center and Gardena High School southeast of the Project Site	0.66	10	No

Source: Refer to Appendix B-2 for modeling data.
Notes:
1 The reported annual pollutant concentration is at the closest maximally exposed individual resident (MEIR) to the Project site.
2 The "Mitigated" HRA construction scenario incorporates MM AQ-1 (Tier 4 Construction Equipment).
3 The "Mitigated" HRA operations scenario incorporates MM AQ-2 (Electric Cargo Handling Equipment).

The HRA determined that the combined construction and operational health risk from the Project without mitigation would be a maximum cancer risk of 318.45 in 1 million, which would exceed the SCAQMD threshold of 10 in 1 million. Therefore, implementation of mitigation measures MM-AQ-1, which requires the use of Tier 4 Final construction equipment, and MM-AQ-2, which requires the use of electric cargo handling equipment are required. With implementation of MM-AQ-1 and MM-AQ-2, the combined construction and operational health risk from the Project would be reduced to 6.71 in 1 million, which would be below the SCAQMD threshold of 10 in 1 million. Therefore, Project impacts associated with carcinogenic risk would be **less than significant with mitigation**. Chronic impacts were also evaluated in the HRA and as shown in Table 3.1-15 the highest unmitigated maximum chronic

hazard index from Project emissions would be 0.0177, which would be below the threshold of 1. The Project's non-carcinogenic unmitigated hazards would be less than significant. However, the Project would implement MM AQ-1 to mitigate carcinogenic risk during construction, as discussed above and would further reduce the chronic hazard index.

Table 3.1-15. Non-carcinogenic Chronic Hazards

Emissions Sources	Chronic Hazard
Resident	
Sensitive Receptors – Unmitigated: Live/Work and Multi-Family units west of Project[1]	0.1610
Sensitive Receptors – Mitigated: Live/Work and Multi-Family units west of Project [1,2]	0.0029
Student	
Sensitive Receptors – Unmitigated: Students at Gardena Early Education Center and Gardena High School southeast of the Project Site	0.0236
Sensitive Receptors – Mitigated: Students at Gardena Early Education Center and Gardena High School southeast of the Project Site	0.0005
SCAQMD Threshold	*1.0*
Threshold Exceeded?	**No**

Notes: SCAQMD = South Coast Air Quality Management District.

1 Refer to Appendix B2 for modeling data.

2 The exposure scenario shows the risk with MM-AQ-1 (Tier 4 Construction Equipment).

Threshold AQ-4: Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The SCAQMD *CEQA Air Quality Handbook* identifies certain land uses as sources of odors. These land uses include agriculture (farming and livestock), wastewater treatment plants, food processing plants, chemical plants, composting facilities, refineries, landfills, dairies, and fiberglass molding. The Project would not include any of the land uses that have been identified by the SCAQMD as odor sources. Therefore, Project operations would not result in odors that would adversely affect people.

During Project construction, some odors (not substantial pollutant concentrations) that may be detected are those typical of construction vehicles (e.g., diesel exhaust from grading and construction equipment). These odors are a temporary short-term impact that is typical of construction projects and would disperse rapidly. The Project would not include any of the land uses that have been identified by the SCAQMD as odor sources. Therefore, neither Project construction activities or operations would result in objectionable odors that would adversely affect a substantial number of people and impacts would be **less than significant**.

3.1.6 Mitigation Measures

MM AQ-1 Clean Construction Equipment. Prior to issuance of grading permits, the Applicant shall prepare and submit documentation to the City of Gardena that demonstrate the following:

- All off-road diesel-powered construction equipment greater than 50 horsepower meets California Air Resources Board (CARB) Tier 4 Final off-road emissions standards or, if not commercially available, meet Tier 4 Interim off-road emission standards (as shown in CARB's 2017 Off-Road Diesel Emission Factor Update for NO_x and PM). A copy of each unit's Best Available Control Technology (BACT) documentation (certified tier specification or model year specification), and CARB or South Coast Air Quality Management District. operating permit (if applicable) shall be provided to the City at the time of mobilization of each applicable unit of equipment.
- Construction equipment shall be properly maintained according to manufacturer specifications.
- All construction equipment and delivery vehicles shall be turned off when not in use, or limit on-site idling for no more than 5 minutes in any 1 hour.
- On-site electrical hook ups to a power grid shall be provided for electric construction tools including saws, drills, and compressors, where feasible, to reduce the need for diesel powered electric generators.

MM AQ-2 Electric Cargo Handling Equipment. All outdoor cargo handling equipment (such as yard trucks, hostlers, yard goats, pallet jacks, and forklifts) shall be zero emission (i.e., powered by electricity or other alternative fuels). The warehouse building shall include the necessary charging stations for cargo handling equipment. The building manager or their designee shall be responsible for enforcing these requirements.

MM GHG-1 Establish On-Site Solar Power. Prior to the issuance of a Building permit, the Project Applicant shall provide written proof to the City of Gardena Community Development Director that the total annual electricity demand from on-site operations does not exceed 2,226,107 kWh/year. On-site electrical demand exceeding 2,226,107 kWh/year shall be supplied by on-site renewable sources (e.g., solar photovoltaic panels). Further, the Project will be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every 3 years, to incorporate improved energy efficiency technologies and methods. The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. The Title 24 Energy Efficiency Standards (Section 110.10) require buildings to be designed to have 15% of the roof area "solar ready" that will structurally accommodate later installation of rooftop solar panels. If future building operators pursue providing rooftop solar panels, they will submit plans for solar panels prior to occupancy.

3.1.7 Level of Significance After Mitigation

Threshold AQ-1: Would the Project conflict with or obstruct implementation of the applicable air quality plan?

The Project would result in a **less-than-significant impact** regarding the potential to conflict with or obstruct implementation of an applicable air quality management plan in the SCAQMD.

Threshold AQ-2: Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard?

The Project would result in a **less-than-significant impact** regarding cumulatively considerable net increase of any criteria pollutant for which the Project region is in non-attainment.

Threshold AQ-3: Would the Project expose sensitive receptors to substantial pollutant concentrations?

Localized construction and operational emissions would be below the SCAQMD site-specific LSTs and impacts would **less than significant**.

The Project would not result in traffic volumes that would result in a CO hotspot during construction or operations. This impact would be **less than significant**.

Finally, implementation of MM-AQ-1 and MM-AQ-2 would ensure that potential cancer and chronic health risk impacts associated with Project construction and operations would be reduced to levels below the SCAQMD thresholds of significance. Therefore, the Project construction and operational health risk impacts would be **less than significant with mitigation**.

Threshold AQ-4: Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The Project would result in **less-than-significant** impacts associated other emissions (such as those leading to odors) that could adversely affect a substantial number of people. No mitigation is required.

3.1.8 Cumulative Effects

As described in Section 3.1.5, implementation of the Project would result in less-than-significant impacts to air quality after mitigation.

Air pollution by nature is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and SCAQMD develops and implements plans for future attainment of ambient air quality standards. In addition to SCAQMD's efforts, CARB has comprehensive regulatory programs in place for new and existing sources of air pollution. Local policies, such as land use decisions that involve siting, zoning, and permitting actions, in conjunction with air agency efforts have the potential to greatly enhance the effectiveness of these programs by addressing cumulative impacts in local areas. Project-specific emissions associated with implementation of the Project could result in regional and localized impacts. Regional pollutants such

as O_3 and $PM_{2.5}$ are derived from complex interactions of emissions from many sources. In contrast, localized, or near-source, pollutants such as SO_2 are mainly derived from a single source or group of sources. Cumulative air quality impacts are the effect of long-term emissions of the project plus any existing emissions at the same location, as well as the effect of long-term emissions of reasonably foreseeable similar projects, on the projected regional air quality or localized air pollution in the SCAB and surrounding areas. Accordingly, impacts can be localized or far-reaching and the geographic scope of air quality impacts varies based on the type of emission source.

Based on the cumulative nature of air pollution and the various mechanisms in place to reduce cumulative air pollutant emissions, Project-level thresholds of significance for criteria pollutants, as analyzed in Section 3.1.5, are relevant in the determination of whether the Project's individual emissions would have a cumulatively significant impact on air quality. The potential for the Project to result in a cumulatively considerable air quality impact is evaluated in Section 3.1.5. After mitigation, the Project is not expected to exceed SCAQMD's mass daily emission-based thresholds during operation, and the Project would not conflict with SCAQMD's 2022 AQMP. As such, the Project's potential to result in a cumulatively considerable net increase of criteria air pollutants for which the region is in nonattainment under an applicable federal or state ambient air quality standard would be less than significant with the implementation of mitigation measures. In addition, during construction and operation and with the implementation of MM-AQ-1 and MM-AQ-2, there would be a less-than-significant cumulative impact related to exposure of sensitive receptors to substantial pollutant concentrations from TACs. Therefore, the Project would result in a less-than-significant cumulatively considerable impact regarding exposure of sensitive receptors to substantial pollutant concentrations. The Project does not include any odorous land uses as identified by the SCAQMD, therefore it would not contribute to a cumulatively considerable impact in emissions such as odors; the cumulative impact would be **less than significant**.

3.1.9 References

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3.2 Cultural Resources

This section describes the existing cultural resources conditions of the 1450 Artesia Specific Plan Project (Project or proposed Project) site, identifies associated regulatory requirements, evaluates potential impacts, and identifies mitigation measures related to implementation of the Project.

The following analysis is based, in part, on the following sources:

- Cultural Resources Assessment Report for the 1450 Artesia Specific Plan Project, prepared by BCR Consulting LLC in September 2023 (Appendix C)
- Geotechnical Exploration Report for 1440-1462 Artesia Boulevard, prepared by Carl Kim Geotechnical Inc. in February 2022 (Appendix E)

3.2.1 Existing Conditions

This section describes the existing conditions on the Project site, including its environmental setting and the results of the California Historical Resources Information System (CHRIS) and Native American Heritage Commission (NAHC) Sacred Lands File (SLF) records searches, other background research, and pedestrian survey.

3.2.1.1 Environmental Setting

The Project is situated within the northernmost Peninsular Ranges Geomorphic Province (Norris and Webb 1990; CGS 2002). This geomorphic province is characterized by northwest trending mountain ranges and valleys that extend over 900 miles from the tip of the Baja Peninsula to the Transverse Ranges (i.e., the San Bernardino and San Gabriel Mountains in Southern California). Regionally, the Peninsular Ranges are bounded to the east by the Colorado Desert and the west by the continental shelf and offshore islands (Santa Catalina, Santa Barbara, San Nicholas, and San Clemente) (Norris and Webb 1990; CGS 2002). Regional mountain ranges in the Peninsular Ranges Geomorphic Province include the Santa Ana, San Jacinto, and Santa Rosa Mountains. Geologically, these mountains are dominated by Mesozoic, plutonic igneous and metamorphic rocks that are part of the Peninsular Ranges Batholith (Southern California Batholith) (Jahns 1954).

More specifically, the Project site is situated within the physiographic area known as the Los Angeles Basin. It is characterized as a transverse-oriented lowland basin and coastal plain. The basin originated as a deep marine trough during the Pliocene (7–2 million years ago) that eventually filled with shallow water fossil bearing sediments. By the beginning of the Pleistocene (after 2 million years ago) uplifting created the series of plains and mesas along the coast that now characterize the area (Lambert 1994; Mendenhall 1905; Woodford et al. 1954). A review of the United States Geological Society (USGS) mineral resources (USGS 2023) online spatial data for geology indicates that the Project site consists of one geological unit. The entirety (100%) of the Project site is underlain by Older Quaternary alluvium and marine deposits from the Pleistocene epoch. Late Pleistocene-era alluvial formations do have the potential to support the presence of buried archaeological resources. These soils are associated with the period of prehistoric human use, as well as represent ongoing processes of development that have potential to preserve cultural material in context, depending on area-specific topographical setting.

According to the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2023a), soils within the northwestern portion of the Project site, which accounts for approximately 25% of the site, is dominated by Urban Land (565%) with minor components, including Aquic Xerothents (20%), Cropley (20%), and Grommet (5%). The remaining 75% of the Project site to the southeast, is dominated by Urban Land (50%) with minor components, including Thums (20%), Windfetch (15%), Sepulveda (10%), and Typic Argiaquolis (5%). The dominant soil series within the proposed Project site, Urban Land, refers to soils in areas of high population density in a largely built environment and can include human-transported or human-altered materials, minimally altered materials, or intact native soils (USDA 2019). The available official USDA soil descriptions for soil types identified within the Project site are provided below.

Cropley (USDA 2023b): The Cropley series consists of 0% to 15% slopes, characterized as very deep, moderately well and well drained soils that formed in alluvium from mixed rock sources. Cropley soils are on alluvial fans, floodplains and in small basins.

Grommet (USDA 2023c): The Grommet series consists of 0% to 12% slopes, characterized as well drained soils that formed in alluvium from mixed sedimentary sources. Grommet soils are on alluvial fans and inset fans.

Thums (USDA 2023d): The Thums series consists of 0% to 12% slopes, characterized as well drained soils that formed in uplifted alluvium from mixed rock sources and have a thin mantle of human transported material at the surface.

Windfetch (USDA 2023e): The Windfetch series consists of 0% to 12% slopes, characterized as well drained soils that formed in a thin, discontinuous layer of human transport materials (or Urban Land soils) overlying uplifted alluvium from marine and other mixed rock sources.

A review of previous and current subsurface geotechnical investigations performed within the Project site revealed that the site is generally underlain by varying amounts of undocumented fill and older alluvium. A review of the logs for the two subsurface geotechnical investigations completed in December 2021 indicates that asphalt and base overlies fill soils and these materials extend from surface to between 2 to 5 feet below current grade within the Project site and is underlain by alluvial soils that extend to the maximum depths explored between 50 and 65 feet below the current grade (Appendix E). The undocumented fill soils are described as silty sand and sandy silts with potentially isolated areas of buried debris consisting of bricks, asphalt, and concrete rubble that are associated with prior development and land uses (Appendix E).

Based on the recommendations of the geotechnical report prepared for the Project site, the depths of ground disturbance for the proposed Project site is between 5 to 11 feet below the existing ground surface for Project site preparation, including the removal of all undocumented fill, underground obstructions, existing vegetation and debris on site and includes construction activities associated with utilities and foundation. Shoring activities are assumed not to exceed 20 feet below existing grade. The proposed new structure would only overlap with the remediated Haack Rework area. The remediation will be completed prior to the start of current proposed Project construction activities. The portion of the Project that overlaps the Haack and Cooper sumps areas would be paved and utilized exclusively as a parking lot, which would be located atop ARC's engineered cap as part of the DTSC-approved Final RAP.

3.2.1.2 Background Research

For a discussion of the historical land uses of the Project site, please see Section 2.3, Environmental Setting, in Chapter 2, Project Description, of this EIR.

CHRIS Records Search

On May 19, 2022, a CHRIS records search was conducted at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton. This archival research reviewed the status of all recorded historic-period and prehistoric cultural resources, and survey and excavation reports completed within a 0.5-mile radius of the Project site. Additional resources reviewed included the National Register, the California Register, and documents and inventories published by the California Office of Historic Preservation. These include the lists of California Historical Landmarks, California Points of Historical Interest, Listing of National Register Properties, and the Inventory of Historic Structures.

The SCCIC results revealed that 12 previous cultural resources studies have been conducted within the records search area. None of the previous studies has address the Project site. SCCIC records also revealed that four cultural resources have been previously recorded within 0.5 miles of the Project site. These resources include one prehistoric site and three historic built environment resources; none these resources were identified within the Project site. A complete records search bibliography is provided in Appendix A of Appendix C of this EIR.

Native American Coordination

Sacred Lands File Search

A search of the NAHC's SLF database was completed on May 18, 2022 with negative results (see Appendix C of Appendix C). It should be noted that Sacred Land Files maintained by the NAHC represent a curation of "sacred lands" or Tribal Cultural Resources (TCRs) provided by tribal entities and Native American representatives. For various reasons, tribal entities and Native American representatives do no not always report sacred lands or TCRs to the NAHC. As such, the NAHC's SLF is not a comprehensive list, and searches of the SLF must be considered in concert with other research and not used as a sole source of information regarding the presence of TCRs or cultural resources.

3.2.1.3 Survey Methods and Results

An intensive-level cultural resources field survey of the Project site was conducted on June 21, September 9, and September 19, 2022. Only 3.5 acres (53.8% of the Project site) was accessible during the survey. The inaccessible eastern portion of the Project site once served as a petroleum dump site. The survey was conducted by walking parallel transects spaced approximately 15 meters (approximately 50 feet) apart across the accessible portions of the Project site. No prehistoric or historic-period archaeological resources were identified within accessible portions of the Project as a result of the surveys performed. However, four buildings that are historic in age were identified. These included the following:

- **1440 Artesia Boulevard.** The subject property was constructed in 1940 and historic aerials confirm that it was in place before 1952. The original owners and occupants are unknown.

From 1962-1994, the subject property was occupied by Sabina J. Knight. At age 16, Sabina married 20-year-old Kenneth K. Knight in 1950, and in 1966 she worked as a waitress at the Smith Bros. Indian Village (U.S. Public Records Index 1950–1993; U.S. Marriage Index 1949–1959; Los Angeles Times 20 January 1966). Research did not reveal additional details. This house was demolished in May 2023 as it constituted a public nuisance.

- **1450 Artesia Boulevard.** The subject property was formerly the site of a brick manufacturing plant during the 1920s and 1930s, and the area immediately to the east was used as a refinery dump from the 1930s to the 1950s. All traces of brick manufacturing had been removed and the buildings at 1450 Artesia Boulevard were constructed in 1950. Historic aerials confirm Buildings A, B, and C were present by 1952. By the late 1950s dump operator William Russell Ward owned the subject property. Ward operated several dumps throughout the Los Angeles area, and newspaper research showed that Mr. Ward was implicated in overcharging for dumping fees along with Raymond Charles Christl, a known affiliate of Mickey Cohen. By the 1990s, Clarence Charles Haack and family owned the subject property. The refinery dump remains in place at the eastern end of the property and is commonly referred to as the Gardena Sumps. The northwestern portion of the Project site currently contains three warehouses (8,080 square feet, 825 square feet, and 3,159 square feet) and a variety of trailer-type storage structures that house several small businesses, including a U-Haul rental agency, a metal fabricating shop, a sandblasting and painting company and an auto body repair shop.
- **1462 Artesia Boulevard.** The subject property is the site of a demolished residence that occupied 550 square feet and was constructed in 1923, according to assessor records. It was also demolished in May 2023 because it was a public nuisance. Since only a small portion of the house remains in place, it does not retain integrity and does warrant in-depth research.
- **1472 Artesia Boulevard.** Los Angeles County Assessor records indicate a build-date of 1923, although historic aerial photos show that the property was vacant in 1952, and that the subject residence was constructed by 1963. Alterations include a stuccoed rear addition and vinyl windows, added at an unknown date. Research has indicated that the property was occupied by a business known as Ron's Trucking in the 1960s. It is currently occupied, although it has been acquired by the Applicant and will be demolished as part of the Project.

3.2.2 Relevant Plans, Policies, and Ordinances

State

The California Register of Historical Resources

In California, the term "historical resource" includes, but is not limited to, "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California" (PRC Section 5020.1[j]). In 1992, the California legislature established the CRHR "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Section 5024.1[a]). The criteria for listing resources on the CRHR were expressly developed to be in accordance with previously established criteria developed for listing in the NRHP, enumerated below.

A resource is considered historically significant if it (i) retains "substantial integrity," and (ii) meets at least one of the following criteria (PRC Section 5024.1[c][1–4]):

1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
2. Is associated with the lives of persons important in our past.
3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
4. Has yielded, or may be likely to yield, information important in prehistory or history.

In order to understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource less than 50 years old may be considered for listing in the CRHR if it can be demonstrated that sufficient time has passed to understand its historical importance (see 14 CCR 4852[d][2]).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. Prehistoric resources are those that pre-date written records, while historic resources reflect written records or recorded events of the past. The criteria for the CRHR are nearly identical to those for the NRHP, and properties listed or formally designated as eligible for listing in the NRHP are automatically listed in the CRHR, as are the state landmarks and points of interest. The CRHR also includes properties designated under local ordinances or identified through local historical resource surveys.

California Environmental Quality Act

The following CEQA statutes (PRC Section 21000 et seq.) and CEQA Guidelines (14 CCR 15000 et seq.) are of relevance to the analysis of archaeological, historic, and TCRs:

- PRC Section 21083.2(g) defines "unique archaeological resource."
- PRC Section 21084.1 and CEQA Guidelines Section 15064.5(a) define "historical resources." In addition, CEQA Guidelines Section 15064.5(b) defines the phrase "substantial adverse change in the significance of an historical resource"; it also defines the circumstances when a project would materially impair the significance of a historical resource.
- PRC Section 21074(a) defines "tribal cultural resources."
- PRC Section 5097.98 and CEQA Guidelines Section 15064.5(e) set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated ceremony.
- PRC Sections 21083.2(b) and 21083.2(c) and CEQA Guidelines Section 15126.4 provide information regarding the mitigation framework for archaeological and historic resources, including examples of preservation-in-place mitigation measures. Preservation in place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context and may also help avoid conflict with religious or cultural values of groups associated with an archaeological site.

Under CEQA, a project may have a significant impact on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (PRC Section 21084.1; 14 CCR 15064.5[b]). If a site is listed or eligible for listing in the CRHR, or included in a local register of historic resources, or identified as significant in a historical resources survey (meeting the requirements of PRC Section 5024.1[q]), it is a "historical resource" and is presumed to be historically or culturally significant for the purposes of CEQA (PRC Section 21084.1; 14 CCR 15064.5[a]). The lead agency is not precluded from determining that a resource is a historical resource even if it does not fall within this presumption (PRC Section 21084.1; 14 CCR 15064.5[a]).

A "substantial adverse change in the significance of an historical resource" reflecting a significant impact under CEQA means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (14 CCR 15064.5[b][1]; PRC Section 5020.1[q]). In turn, the significance of a historical resource is materially impaired when a project does any of the following:

1. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register; or
2. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the PRC or its identification in an historical resources survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
3. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register [CRHR] as determined by a lead agency for purposes of CEQA (14 CCR 15064.5[b][2]).

Pursuant to these sections, the CEQA inquiry begins with evaluating whether a project site contains any "historical resources," then evaluates whether that project will cause a substantial adverse change in the significance of a historical resource such that the resource's historical significance is materially impaired.

If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (PRC Sections 21083.2[a]–[c]).

Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria (PRC Section 21083.2[g]):

1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.

2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

Impacts on non-unique archaeological resources are generally not considered a significant environmental impact (PRC Section 21083.2[a]; 14 CCR 15064.5[c][4]). However, if a non-unique archaeological resource qualifies as a TCR (PRC Sections 21074[c] and 21083.2[h]), further consideration of significant impacts is required.

CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in PRC Section 5097.98.

Regarding paleontological resources, CEQA Guidelines require that all private and public activities not specifically exempted be evaluated against the potential for environmental damage, including effects to paleontological resources. Paleontological resources, which are limited, nonrenewable resources of scientific, cultural, and educational value, are recognized as part of the environment under these state guidelines. This study satisfies project requirements in accordance with CEQA (13 PRC, 21000 et seq.).

Paleontological resources are explicitly afforded protection by CEQA, specifically in Section VII(f) of CEQA Guidelines Appendix G, the "Environmental Checklist Form," which addresses the potential for adverse impacts to "unique paleontological resource[s] or site[s] or … unique geological feature[s]." This provision covers fossils of signal importance – remains of species or genera new to science, for example, or fossils exhibiting features not previously recognized for a given animal group – as well as localities that yield fossils significant in their abundance, diversity, preservation, and so forth.

CEQA Guidelines Section 15064.5(b)(2)

Pursuant to these sections, CEQA first evaluates whether a project site contains any "historical resources," and if so, then assesses whether that project will cause a substantial adverse change in the significance of a historical resource such that the resource's historical significance is materially impaired.

When a project significantly affects a unique archaeological resource, CEQA imposes special mitigation requirements. Specifically, "[i]f it can be demonstrated that a project will cause damage to a unique archeological resource, the lead agency may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. Examples of that treatment, in no order of preference, may include, but are not limited to, any of the following:"

1. "Planning construction to avoid archeological sites."
2. "Deeding archeological sites into permanent conservation easements."
3. "Capping or covering archeological sites with a layer of soil before building on the sites."

California Public Resources Code Section 21083.2(b)(1)-(4)

If these "preservation in place" options are not feasible, mitigation may be accomplished through data recovery (PRC Section 21083.2[d]; 14 CCR 15126.4[b][3][C]). PRC Section 21083.2(d) states that "[e]xcavation as mitigation shall be restricted to those parts of the unique archeological resource that would be damaged or destroyed by the project. Excavation as mitigation shall not be required for a unique archeological resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the resource, if this determination is documented in the environmental impact report."

These same requirements are set forth in slightly greater detail in CEQA Guidelines Section 15126.4(b)(3), as follows:

1. Preservation in place is the preferred manner of mitigating impacts to archeological sites. Preservation in place maintains the relationship between artifacts and the archeological context. Preservation may also avoid conflict with religious or cultural values of groups associated with the site.
2. Preservation in place may be accomplished by, but is not limited to, the following:
   a. Planning construction to avoid archeological sites;
   b. Incorporation of sites within parks, greenspace, or other open space;
   c. Covering the archeological sites with a layer of chemically stable soil before building tennis courts, parking lots, or similar facilities on the site [; and]
   d. Deeding the site into a permanent conservation easement.
3. When data recovery through excavation is the only feasible mitigation, a data recovery plan, which makes provision for adequately recovering the scientifically consequential information from and about the historical resource, shall be prepared and adopted prior to any excavation being undertaken.
4. Note that, when conducting data recovery, "[i]f an artifact must be removed during project excavation or testing, curation may be an appropriate mitigation." However, "[d]ata recovery shall not be required for an historical resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the archeological or historic resource, provided that determination is documented in the EIR and that the studies are deposited with the California Historical Resources Regional Information Center" (14 CCR 15126.4[b][3][D]). "Planning parks, greenspace, or other open space to incorporate archeological sites."

California Health and Safety Code Section 7050.5

California law protects human remains, Native American burials, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. California Health and Safety Code Section 7050.5 requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains shall occur until the County Coroner has examined the remains and determined that the remains are not subject to the provisions of Section 27491 of the Government Code or any other related provisions of law concerning

investigation of the circumstances, manner and cause of any death, and the recommendations concerning the treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the PRC (PRC Section 7050.5[b]). If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the NAHC within 24 hours (PRC Section 7050.5[c]). The NAHC will notify the "most likely descendant" (MLD). With the permission of the landowner, the MLD may inspect the site of discovery. The inspection must be completed within 48 hours of notification of the MLD by NAHC. The MLD may recommend means of treating or disposing of, with appropriate dignity, the human remains and items associated with Native Americans.

Local

City of Gardena General Plan 2006

The City of Gardena General Plan contains the following goals and policies that address cultural resources and are applicable to the Project (City of Gardena 2006).

Conservation Plan: Cultural Resources

CN Goal 5. Protect the City's cultural resources.

Policy CN 5.1. Maintain an inventory of the City's historical resources, including a survey of buildings of architectural, cultural or historical significance.

Policy CN 5.2. Provide provisions in the Municipal Code to protect historical and cultural resources.

Policy CN 5.3. Protect and preserve cultural resources of the Gabrielino Native American Tribe found or uncovered during construction.

3.2.3 Thresholds of Significance

The significance criteria used to evaluate the Project impacts related to cultural resources are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to cultural resources would occur if the Project would:

1. Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?
2. Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?
3. Disturb any human remains, including those interred outside of formal cemeteries?

Based on the results of the Initial Study prepared for the Project (Appendix A), all three thresholds are evaluated in this section of the Draft EIR:

CUL-1 Would the Project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?

CUL-2 Would the Project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

CUL-3 Would the Project disturb any human remains, including those interred outside of formal cemeteries?

3.2.4 Impact Analysis

Threshold CUL-1. Would the Project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?

A Cultural Resources Assessment was prepared for the proposed Project and is included as Appendix C of this EIR. As discussed therein, four properties with historic period buildings were identified. CEQA calls for the evaluation and recordation of historic and archaeological resources. The criteria for determining the significance of impacts to cultural resources are based on Section 15064.5 of the CEQA Guidelines and Guidelines for the Nomination of Properties to the California Register. Properties eligible for listing in the California Register and subject to review under CEQA are those meeting the criteria for listing in the California Register, or designation under a local ordinance.

Based on the results of the Cultural Resources Assessment, none of the four properties with historic period buildings are recommended eligible for the California Register of Historic Places or as a City Landmark. No other cultural resources of any kind have been identified within the Project site. As such, impacts to historical resources would be **less than significant**.

Threshold CUL-2. Would the Project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

A CHRIS database records search, NAHC SLF database search, background research, including a review of a geotechnical report, and archaeological pedestrian surveys were conducted in support of the proposed Project. Historical land use of the Project site included the Gardena Sumps in the northeastern portion of the Project site, which was used as a sludge disposal site through the 1950s. A review of historical topographic maps and aerial photographs through the Nationwide Environmental Title Research, LLC (NETR) depicts the Dominguez Channel as intersecting and overlapping the Project site as early as 1896. In the early 1950s, the Dominguez Channel is depicted as undergoing channelization. By 1963, the segment of the Dominguez Channel adjacent to the Project site is depicted as fully constructed and relocated from its historical location to the southern end of the Project site (NETR 2023). The CHRIS records search identified four previously recorded cultural resources within the 0.5-mile records search area. No record of previously recorded historic-period or prehistoric archaeological resources are on file with the SCCIC as being present within the Project site. A review of the CHRIS records search results also indicates that 12 cultural resource studies have been conducted have been conducted within the records search area. None of the

previous studies has addressed the Project site. A search of the NAHC's SLF database yielded negative results for any reported Native American cultural resources within proximity to or within the Project site. Additionally, no archaeological resources were observed within the Project site as a result of the pedestrian survey.

A review of the available geotechnical report prepared for the Project site determined that asphalt and base overlying fill soils were encountered from surface to between 2 to 5 feet below current grade within the two exploratory boring locations to the northeast and south of the proposed self-storage building and is underlain by alluvial soils that extend to the maximum depths explored between 50 and 65 feet below the current grade. Based on the recommendations of the geotechnical report prepared for the Project site, the depth of ground disturbance for the proposed Project site is between 5 to 11 feet below the existing ground surface for site preparation, including the removal of all undocumented fill, underground obstructions, existing vegetation and debris on site and includes construction activities associated with utilities and foundation. Shoring activities are assumed not to exceed 15 feet below existing grade. The proposed new structure would only overlap with the remediated Haack Rework area. The remediation will be completed prior to the start of current proposed Project construction activities. The portion of the Project that overlaps the Haack and Cooper sumps areas would be paved and utilized exclusively as a parking lot, which would be located atop ARC's engineered cap as part of the DTSC-approved Final RAP.

In consideration of all these factors, the potential to encounter intact deposits containing archaeological resources within soils from the current grade and between 2 and 5 feet below existing ground surface is unlikely. However, the potential for intact cultural deposits to exist within native soils (below between 2 and 5 feet below existing ground surface) to the depths of proposed ground disturbance (between 5 to 11 feet, with maximum depth of an assumed 15 feet below grade for shoring activities), is unknown. Given that the Dominguez Creek historically flowed through the Project site prior to channelization, there is a potential for the proposed Project site to be buried in alluvial and flood deposits. For these reasons, the Project site should be treated as potentially sensitive for archaeological resources. In the event that unanticipated archaeological resources are encountered during Project implementation, impacts to these resources would be potentially significant.

Thus, mitigation is required to address impacts related to the inadvertent discovery of archaeological resources during construction, as outlined in MM-CUL-1, MM-CUL-2, and MM-CUL-3. Mitigation measure MM-CUL-1 requires that all Project construction personnel participate in a Workers Environmental Awareness Program training for the proper identification and treatment of inadvertent discoveries. Mitigation measure MM-CUL-2 requires the retention of an on-call qualified archaeologist to respond to and address inadvertent discoveries, as well as survey the Project site after the removal of fill soils to ensure no cultural deposits underly the fill layer. Mitigation measure MM-CUL-3 requires construction work occurring within 100 feet of a cultural resource discovery be immediately halted until the qualified archaeologist, meeting the Secretary of Interior's Professional Qualification Standards for Archaeology, can assess and evaluate the discovery pursuant to CEQA. Additionally, MM-CUL-3 requires the inadvertent discovery clause be included on all construction plans. With implementation of MM-CUL-1, MM-CUL-2, and MM-CUL-3, potentially significant impacts to unknown archaeological resources would be reduced to **less than significant with mitigation** incorporated.

Threshold CUL-3 Would the Project disturb any human remains, including those interred outside of formal cemeteries?

No prehistoric or historic period burials, within or outside of formal cemeteries, were identified within the Project site as a result of the CHRIS records search or pedestrian survey. In the event that human remains are inadvertently encountered during ground disturbing activities, they would be treated consistent with state and local regulations including California Health and Safety Code Section 7050.5, California Public Resources Code Section 5097.98, and the California Code of Regulations Section 15064.5(e). In accordance with these regulations, if human remains are found, the County Coroner must be immediately notified of the discovery. No further excavation or disturbance of the Project site or off-site improvement areas or any nearby (no less than 100 feet) area reasonably suspected to overlie adjacent remains can occur until the County Coroner has determined if the remains are potentially human in origin. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she is required to notify the NAHC that shall notify those persons believed to be the most likely descendant. The most likely descendant shall determine, in consultation with the property owner, the disposition of the human remains. Compliance with these regulations would ensure that impacts to human remains resulting from the Project would be **less than significant**.

3.2.5 Mitigation Measures

MM-CUL-1 Workers Environmental Awareness Program. Prior to the start of construction activities, all construction personnel and monitors shall be trained regarding identification and treatment protocol for inadvertent discoveries of cultural resources (archaeological and tribal) and human remains. A basic presentation and handout or pamphlet shall be prepared in order to ensure proper identification and treatment of inadvertent discoveries of cultural resources and human remains. The purpose of the Workers Environmental Awareness Program (WEAP) training is to provide specific details on the kinds of materials that may be identified during ground disturbing activities and explain the importance of and legal basis for the protection of human remains and significant cultural resources. Each worker shall also be trained in the proper procedures to follow in the event that cultural resources or human remains are uncovered during ground disturbing activities. These procedures include but are not limited to work curtailment or redirection, and the immediate contact of the site supervisor and archaeological monitoring staff.

MM-CUL-2 Retention of an On-Call Qualified Archaeologist. A qualified archaeologist shall be retained and on-call to respond and address any inadvertent discoveries identified Project implementation. Additionally, in consideration of the potential to encounter intact cultural deposits beneath fill soils, the qualified archaeologist shall survey the proposed Project site once fill soils have been removed to ensure no cultural deposits underly the fill layer. If is determined, based on the aforementioned survey, that cultural resources are present or may be present and may be impacted during Project construction, monitoring may be warranted. Additionally, any identified cultural resources shall be assessed and evaluated pursuant to CEQA. If it is determined that monitoring is warranted, a qualified archaeological principal investigator, meeting the

Secretary of the Interior's Professional Qualification Standards, shall oversee and adjust monitoring efforts as needed (increase, decrease, or discontinue monitoring frequency) based on the observed potential for construction activities to encounter cultural deposits or material. The archaeological monitor will be responsible for maintaining daily monitoring logs.

MM-CUL-3 Inadvertent Discovery Clause. In the event that potential archaeological resources (sites, features, or artifacts) are exposed during ground disturbing, all construction work occurring not less than 100 feet of the find shall immediately stop and the qualified archaeologist that has been retained on call must be notified immediately to assess the significance of the find and determine whether or not additional study is warranted. Depending upon the significance of the find under the CEQA, the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA, additional work (e.g., preparation of an archaeological treatment plan, testing, data recovery, or monitoring) may be warranted if the resource cannot be feasibly avoided. If the discovery is Native American in nature, consultation with and/or monitoring by a tribal representative may be necessary.

3.2.6 Level of Significance After Mitigation

Threshold CUL-1: Would the Project cause a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5?

Impacts would be **less than significant**; as such, no mitigation is required.

Threshold CUL-2: Would the Project cause a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5?

The Project would result in potentially significant impacts with regard to a substantial adverse change in the significance of an archaeological resource pursuant to CEQA Guidelines Section 15064.5. With incorporation of **MM-CUL-1** through **MM-CUL-3**, impacts associated with archaeological resources would be **less than significant with mitigation incorporated**.

Threshold CUL-3: Would the Project disturb any human remains, including those interred outside of formal cemeteries?

The Project would result in potentially significant impacts associated with the disturbance of human remains, including those interred outside of formal cemeteries. With compliance with Section 7050.5 of the California Health and Safety Code and Section 5097.98 of the California Public Resources Code, impacts associated with human remains would be **less than significant**.

3.2.7 Cumulative Effects

Potential cumulative impacts to cultural and historical resources would result from projects that combine to create an environment where cultural and historical resources are vulnerable to destruction by demolition or alteration, earthmoving equipment, looting by the public, and natural causes such as weathering and erosion. The majority of impacts to cultural and historical resources are site-specific and

are therefore generally mitigated on a project-by-project basis. Cumulative projects would be required to assess impacts to cultural resources. Additionally, as needed, projects would incorporate individual mitigation for site-specific cultural resources and conditions present for each individual project site. Furthermore, the Project does not propose construction (including grading/excavation) or design features that could directly or indirectly contribute to an increase in a cumulative impact to known cultural and historical resources, as the mitigation measures provided in analysis conducted for this Project ensures any significant cultural resources uncovered during Project implementation would be properly identified, evaluated, and treated by qualified archaeologist. Therefore, the Project, in combination with the past, present, and reasonably foreseeable future projects in the Project vicinity, would result in less-than-significant cumulative impacts to cultural and historical resources, and no further mitigation measures are required. Moreover, impacts to cultural resources would be avoided and/or mitigated with implementation of **MM-CUL-1** through **MM-CUL-3**. Therefore, the Project's contribution to cumulative impacts would not be cumulatively considerable. As such, cumulative impacts on cultural resources would be **less than significant.**

3.2.8 References

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3.3 Energy

This section describes the existing energy conditions of the 1450 Artesia Specific Plan Project (Project) site and vicinity, identifies associated regulatory requirements, evaluates potential impacts, and identifies mitigation measures (if any) related to implementation of the proposed Project. Information contained in this section is based on California Emissions Estimator Model (CalEEMod), Version 2022.1, to estimate the Project's energy consumption from both construction and operations. For the relevant data, refer to the following appendix:

- **Appendix D,** Energy Assessment, dated June 2024

3.3.1 Existing Conditions

3.3.1.1 Electricity and Natural Gas Services

Southern California Edison (SCE) provides electrical services to the City through state-regulated public utility contracts. Over the past 15 years, electricity generation in California has undergone a transition. Historically, California has relied heavily on oil- and gas-fired plants to generate electricity. Spurred by regulatory measures and tax incentives, California's electrical system has become more reliant on renewable energy sources; including cogeneration, wind energy, solar energy, geothermal energy, biomass conversion, transformation plants, and small hydroelectric plants. Unlike petroleum production, electricity generation is not usually tied to the location of the fuel source and can be delivered great distances via the electrical grid. The generating capacity of a unit of electricity is expressed in megawatts (MW). Net generation refers to the gross amount of energy produced by a unit, minus the amount of energy the unit consumes. Generation is typically measured in megawatt-hours (MWh), kilowatt-hours (kWh), or gigawatt-hours (GWh).

Southern California Gas Company provides natural gas services within the City. Natural gas is a hydrocarbon fuel found in reservoirs beneath the earth's surface and is composed primarily of methane (CH_4). It is used for space and water heating, process heating and electricity generation, and as transportation fuel. Use of natural gas to generate electricity is expected to increase in coming years because it is a relatively clean alternative to other fossil fuels (e.g., oil and coal). In California and throughout the western United States, many new electrical generation plants fired by natural gas are being brought online. Thus, there is great interest in importing liquefied natural gas from other parts of the world. California's natural gas-fired electric generation increased by 2% in 2021, accounting for 50% of in-state generation (CEC 2021).

The City's ongoing development review process includes a review and comment opportunity for privately owned utility companies and to provide input on all development proposals. The input facilitates a detailed review of projects by service purveyors to assess the potential demands for utility services on a project-by-project basis. The ability of utility providers to provide services concurrently with each project is evaluated during the development review process. Utility companies are bound by contract to update energy systems to meet any additional demand.

3.3.1.2 Energy Usage

Energy usage is typically quantified using the British Thermal Unit (BTU). Total energy usage in California was 7,202.6 trillion BTUs in 2021 (the most recent year for which this specific data is available) (EIA 2021). Of California's total energy usage, the breakdown by sector is 37.8% transportation, 23.2% industrial, 19.0% commercial, and 20.0% residential (EIA 2022). Electricity and natural gas in California are generally consumed by stationary users such as residences, commercial, and industrial facilities, whereas petroleum consumption is generally accounted for by transportation-related energy use. In 2021, taxable gasoline sales (including aviation gasoline) in California accounted for 13,919,678,835 gallons of gasoline (CDTFA 2022).

The electricity consumption attributable to Los Angeles County from 2011 to 2021 is shown in Table 3.3-1. As indicated in Table 3.3-1, electricity consumption in Los Angeles County increased steadily between 2011 and 2014 and relatively decreased between 2015 and 2021.

Table 3.3-1. Electricity Consumption Los Angeles County 2011–2021

Year	Electricity Consumption (in millions of kilowatt hours)
2011	68,180
2012	69,248
2013	68,342
2014	69,924
2015	69,503
2016	69,390
2017	68,632
2018	67,887
2019	66,805
2020	65,650
2021	65,375

Source: CEC 2022a.

The natural gas consumption attributable to Los Angeles County from 2010 to 2021 is shown in Table 3.3-2. Similar to electricity consumption, natural gas consumption in Los Angeles County relatively decreased between 2011 and 2015 and increased between 2016 and 2019 with a reduction between 2020 and 2021.

Table 3.3-2. Natural Gas Consumption in Los Angeles County 2011–2021

Year	Natural Gas Consumption (in millions of therms)
2011	3,055
2012	2,985
2013	3,065
2014	2,794

Table 3.3-2. Natural Gas Consumption in Los Angeles County 2011–2021

Year	Natural Gas Consumption (in millions of therms)
2015	2,761
2016	2,878
2017	2,956
2018	2,922
2019	3,048
2020	2,937
2021	2,881

Source: CEC 2022b.

Automotive fuel consumption in Los Angeles County from 2011 to 2021 is shown in Table 3.3-3. As shown in Table 3.3-3, on-road automotive fuel consumption in Los Angeles County relatively increased from 2011 to 2017 and decreased between 2018 and 2020 with a slight increase in 2021. Heavy-duty vehicle fuel consumption increased between 2012 and 2017 and decreased between 2018 and 2020 with an increase in 2021 and 2022.

Table 3.3-3. Automotive Fuel Consumption in Los Angeles County 2011–2022

Year	On-Road Automotive Fuel Consumption (gallons)	Heavy-Duty Vehicle/Diesel Fuel Consumption (Construction Equipment) (gallons)
2011	3,745,485,930	434,920,563
2012	3,714,743,617	430,477,995
2013	3,720,160,331	453,247,552
2014	3,754,124,477	457,345,104
2015	3,864,098,889	462,749,587
2016	3,990,292,164	489,895,770
2017	3,961,448,725	506,904,226
2018	3,914,668,171	494,484,395
2019	3,844,847,561	492,605,543
2020	3,381,588,164	491,579,947
2021	3,816,162,983	507,214,212
2022	3,774,778,086	526,229,424

Source: CARB 2021.

3.3.2 Relevant Plans, Policies, and Ordinances

The following is a description of federal, state, and local environmental laws and policies related to energy consumption that are relevant to the proposed Project.

Federal

Federal Energy Policy and Conservation Act and CAFE Standards

In 1975, Congress enacted the federal Energy Policy and Conservation Act, which established the first fuel economy standards, known as the Corporate Average Fuel Economy (CAFE) standards, for on-road motor vehicles in the United States. Pursuant to the act, the National Highway Traffic Safety Administration (NHTSA) is responsible for establishing additional vehicle standards. In 2012, new CAFE standards for passenger cars and light trucks were approved for model years 2017 through 2021 (77 FR 62624–63200). Fuel economy is determined based on each manufacturer's average fuel economy for the fleet of vehicles available for sale in the United States.

Energy Policy Act of 1992 and 2005

The Energy Policy Act of 1992 was passed to reduce the country's dependence on foreign petroleum and improve air quality. The act includes several parts intended to build an inventory of alternative fuel vehicles (AFVs) in large, centrally fueled fleets in metropolitan areas. The act requires certain federal, state, and local government and private fleets to purchase a percentage of light-duty AFVs capable of running on alternative fuels each year. In addition, financial incentives are also included in the act. Federal tax deductions are allowed for businesses and individuals to cover the incremental cost of AFVs. The Energy Policy Act also requires states to consider a variety of incentive programs to help promote AFVs. The Energy Policy Act provides renewed and expanded tax credits for electricity generated by qualified energy sources, such as landfill gas; provides bond financing, tax incentives, grants, and loan guarantees for clean renewable energy and rural community electrification; and establishes a federal purchase requirement for renewable energy.

Energy Independence and Security Act of 2007

On December 19, 2007, the Energy Independence and Security Act of 2007 (EISA) was signed into law. In addition to setting increased CAFE standards for motor vehicles, the EISA facilitates the reduction of national GHG emissions by requiring the following:

- Increasing the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard (RFS) that requires fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Prescribing or revising standards affecting regional efficiency for heating and cooling products, procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.
- Requiring approximately 25% greater efficiency for light bulbs by phasing out incandescent light bulbs between 2012 and 2014; requiring approximately 200% greater efficiency for light bulbs, or similar energy savings, by 2020.
- While superseded by the U.S. Environmental Protection Agency (EPA) and NHTSA actions described previously, establishing miles per gallon targets for cars and light trucks and directing the NHTSA to establish a fuel economy program for medium-and heavy-duty trucks and create a separate fuel economy standard for trucks.

This federal legislation requires ever-increasing levels of renewable fuels (the RFS) to replace petroleum (EPA 2024). EPA is responsible for developing and implementing regulations to facilitate that transportation fuel sold in the United States contains at least a minimum volume of renewable fuel.

The RFS program was created under the Energy Policy Act and established the first renewable fuel volume mandate in the United States. As required under the Energy Policy Act, the original RFS program required 7.5 billion gallons of renewable fuel to be blended into gasoline by 2012. Under the EISA, the RFS program was expanded in several ways that laid the foundation for achieving significant reductions in GHG emissions from the use of renewable fuels, reducing imported petroleum, and encouraging the development and expansion of the renewable fuels sector in the United States. The updated program is referred to as "RFS2" and includes the following:

- The EISA expanded the RFS program to include diesel, in addition to gasoline.
- The EISA increased the volume of renewable fuel required to be blended into transportation fuel from 9 billion gallons in 2008 to 36 billion gallons by 2022.
- The EISA established new categories of renewable fuel and set separate volume requirements for each one.
- The EISA required EPA to apply lifecycle GHG performance threshold standards to ensure that each category of renewable fuel emits fewer GHGs than the petroleum fuel it replaces.

Additional provisions of the EISA address energy savings in government and public institutions, research for alternative energy, additional research in carbon capture, international energy programs, and the creation of green (environmentally beneficial) jobs.

Intermodal Surface Transportation Efficiency Act of 1991

The Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991 promoted the development of intermodal transportation systems to maximize mobility and address national and local interests in air quality and energy. ISTEA contained factors for metropolitan planning organizations to address in developing transportation plans and programs, including some energy - related factors. To meet the new ISTEA requirements, metropolitan planning organizations adopted policies defining the social, economic, energy, and environmental values guiding transportation decisions.

Transportation Equity Act for the 21st Century

The Transportation Equity Act for the 21st Century was signed into law in 1998 and builds on the initiatives established in the ISTEA legislation (previously discussed). The Transportation Equity Act authorizes highway, highway safety, transit, and other efficient surface transportation programs. The act continues the program structure established for highways and transit under ISTEA, such as flexibility in the use of funds, emphasis on measures to improve the environment, and focus on a strong planning process as the foundation of transportation decisions. The Transportation Equity Act also provides for investment in research and its application to maximize the performance of the transportation system through, for example, deployment of intelligent transportation systems to help improve operations and management of transportation systems and vehicle safety.

State

Warren-Alquist Act

The California legislature passed the Warren-Alquist Act in 1974. The Warren-Alquist Act created the California Energy Commission (CEC). The legislation also incorporated the following three key provisions designed to address the demand side of the energy equation:

- The act directed the CEC to formulate and adopt the nation's first energy conservation standards for buildings constructed and appliances sold in California.
- The act removed the responsibility of electricity demand forecasting from the utilities, which had a financial interest in high-demand projections, and transferred it to a more impartial CEC.
- The CEC was directed to embark on an ambitious research and development program, with a particular focus on fostering what were characterized as non-conventional energy sources.

Energy Conservation

In 1975, largely in response to the oil crisis of the 1970s, the California State legislature adopted Assembly Bill 1575 (AB 1575), which created the California Energy Commission (CEC). The statutory mission of the CEC is to forecast future energy needs, license thermal power plants of 50 megawatts or larger, develop energy technologies and renewable energy resources, plan for and direct state responses to energy emergencies, and, perhaps most importantly, promote energy efficiency through the adoption and enforcement of appliance and building energy efficiency standards. AB 1575 also amended Public Resources Code Section 21100(b)(3) to require Environmental Impact Reports (EIRs) to consider the wasteful, inefficient, and unnecessary consumption of energy caused by a project.

Thereafter, the State Resources Agency created Appendix F, Energy Conservation, in the California Environmental Quality Act Guidelines (CEQA Guidelines). CEQA Guidelines Appendix F is an advisory document that assists EIR preparers in determining whether a project will result in the inefficient, wasteful, and unnecessary consumption of energy. In addition, the California Natural Resources Agency finalized updates to the CEQA Guidelines in December 2018. New CEQA Guidelines Section 15126.2(b) treats "wasteful, inefficient, or unnecessary" energy consumption as a significant environmental impact. As a result, energy thresholds have been incorporated into Appendix G of the CEQA Guidelines. This section has been prepared to assess energy impacts in accordance with Appendix G of the CEQA Guidelines.

State of California Energy Action Plan

CEC and CPUC approved the first State of California Energy Action Plan in 2003. The Energy Action Plan established shared goals and specific actions to support that adequate, reliable, and reasonably priced electrical power and natural gas supplies are provided, and identified policies, strategies, and actions that are cost effective and environmentally sound for California's consumers and taxpayers. In 2005, CEC and CPUC adopted a second Energy Action Plan to reflect various policy changes and actions of the preceding 2 years.

At the beginning of 2008, CEC and CPUC determined that it was not necessary or productive to prepare a new Energy Action Plan. This determination was based, in part, on a finding that the state's

energy policies have been significantly influenced by the passage of Assembly Bill (AB) 32, the California Global Warming Solutions Act of 2006 (discussed in "Assembly Bill 32 and Senate Bill 32"). Rather than produce a new Energy Action Plan, CEC and CPUC prepared an update that examines the state's ongoing actions in the context of global climate change.

Assembly Bill 1007 (2005)

AB 1007 (2005) required the CEC to prepare a statewide plan to increase the use of alternative fuels in California (State Alternative Fuels Plan). The CEC prepared the plan in partnership with the California Air Resources Board (CARB) and in consultation with other state agencies, plus federal and local agencies. The State Alternative Fuels Plan assessed various alternative fuels and developed fuel portfolios to meet California's goals to reduce petroleum consumption, increase alternative fuels use, reduce GHG emissions, and increase in-state production of biofuels without causing a significant degradation of public health and environmental quality.

California's Energy Efficiency Standards for Residential and Non-Residential Buildings (Title 24)

Energy conservation standards for new residential and nonresidential buildings were adopted by the California Energy Resources Conservation and Development Commission (now the California Energy Commission [CEC]) in June 1977 and are updated every 3 years (Title 24, Part 6, of the California Code of Regulations). Title 24 requires the design of building shells and building components to conserve energy. The standards are updated periodically to allow for consideration and possible incorporation of new energy efficiency technologies and methods. The current Title 24, Part 6 standards referred to as the 2022 Title 24 Building Energy Efficiency Standards, became effective on January 1, 2023.

The 2022 Standards improve upon the 2019 Standards. Under the 2022 Title 24 standards, newly constructed residential and commercial buildings encourage electric heat pump technology for space and water heating, electric-ready requirements for single-family homes to position owners to use cleaner electric heating, cooking and electric vehicle (EV) charging options, expand solar PV system and battery storage standards, and strengthen ventilation standards to improve indoor air quality.

Title 24 also includes Part 11, California Green Building Standards Code (CALGreen). CALGreen establishes minimum mandatory standards as well as voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The 2022 CALGreen standards are the current applicable standards.

California Public Utilities Commission Energy Efficiency Strategic Plan

The California Public Utilities Commission (CPUC) prepared an Energy Efficiency Strategic Plan in 2011 with the goal of promoting energy efficiency and a reduction in greenhouse gases (CPUC 2011). Assembly Bill 1109, adopted in 2007, also serves as a framework for lighting efficiency. This bill requires the State Energy Resources Conservation and Development Commission to adopt minimum energy efficiency standards as a means to reduce average statewide electrical energy consumption by not less than 50% from the 2007 levels for indoor residential lighting and not less than 25% from the 2007 levels for indoor commercial and outdoor lighting by 2018. According to the Energy Efficiency Strategic Plan, lighting

comprises approximately one-fourth of California's electricity use while non-residential sector exterior lighting (parking lot, area, walkway, and security lighting) usage comprises 1.4% of California's total electricity use, much of which occurs during limited occupancy periods.

Renewable Portfolio Standard

In 2002, California established its Renewable Portfolio Standard program with the goal of increasing the annual percentage of renewable energy in the state's electricity mix by the equivalent of at least 1% of sales, with an aggregate total of 20% by 2017. The California Public Utilities Commission subsequently accelerated that goal to 2010 for retail sellers of electricity (Public Utilities Code Section 399.15[b][1]). Then-Governor Schwarzenegger signed Executive Order S-14-08 in 2008, increasing the target to 33% renewable energy by 2020. In September 2009, then-Governor Schwarzenegger continued California's commitment to the Renewable Portfolio Standard by signing Executive Order S-21-09, which directs the California Air Resources Board (CARB) under its AB 32 authority to enact regulations to help the state meet its Renewable Portfolio Standard goal of 33% renewable energy by 2020. In September 2010, CARB adopted its Renewable Electricity Standard regulations, which require all of the state's load-serving entities to meet this target. In October 2015, then-Governor Brown signed into legislation Senate Bill 350, which requires retail sellers and publicly owned utilities to procure 50% of their electricity from eligible renewable energy resources by 2030. Signed in 2018, SB 100 revised the goal of the program to achieve the 50% renewable resources target by December 31, 2026, and to achieve a 60% target by December 31, 2030. SB 100 also established a further goal to have an electric grid that is entirely powered by clean energy by 2045. Under the bill, the state cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100% carbon-free electricity target.

Local

City of Gardena Climate Action Plan

The 2017 City of Gardena Climate Action Plan (Gardena CAP) establishes a series of energy efficiency related measures intended to reduce greenhouse gas (GHG) emissions based on the AB 32 Scoping Plan (City of Gardena 2017). Those applicable to the Project are Renewables Portfolio Standard for Building Energy Use, Assembly Bill 1109 Energy Efficiency Standards for Lighting, Electricity Energy Efficiency, Residential Energy Efficiency Standards, Commercial Energy Efficiency Requirements and Residential Renewable Energy Requirements.

City of Gardena General Plan

The City of Gardena adopted their General Plan in 2006. The Conservation Element contains the following goal and policies that pertain to energy:

CN Goal 4: Conserve energy resources through the use of technology and conservation methods.

Policy 4.1: Encourage innovative building designs that conserve and minimize energy consumption.

Policy 4.2: Require compliance with Title 24 regulations to conserve energy.

Policy 4.3: Encourage the residential and business community to install energy saving features and appliances in existing structures.

3.3.3 Thresholds of Significance

In accordance with State CEQA Guidelines, the effects of a project are evaluated to determine whether they would result in a significant adverse impact on the environment. This analysis will focus on these effects and offer mitigation measures to reduce or avoid any significant impacts that are identified. The criteria used to determine the significance of impacts may vary depending on the nature of the project. According to Appendix G of the CEQA Guidelines, the proposed Project would have a significant impact related to energy, if it would:

1. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation; and/or
2. Conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

Based on the results of the Initial Study prepared for the Project (Appendix A), the following thresholds of significance are used to evaluate potential energy impacts associated with the Project:

ENG-1. Would the Project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?

ENG-2. Would the Project conflict with or obstruct a State or local plan for renewable energy or energy efficiency?

3.3.4 Methodology

The impact analysis focuses on the three sources of energy that are relevant to the proposed Project: electricity, natural gas, and transportation fuel for vehicle trips associated with the Project as well as the fuel necessary for Project construction. Electricity, natural gas, and transportation fuel use for the Project was determined from the California Emissions Estimator Model used for the Air Quality and Greenhouse Gas Technical analyses. While Section 3.5, Greenhouse Gas Emissions, includes PDF-GHG-1 requiring electrification of the Project to be consistent with the CARB Scoping Plan, the analysis in this section conservatively assumed natural gas usage for informational purposes. As correctly noted in PDF-GHG-1, the Project would be designed to be all-electric. See details in Appendix D of this EIR.

3.3.5 Impact Analysis

Threshold ENG-1: Would the Project result in wasteful, inefficient, or unnecessary consumption of energy resources?

Energy consumption associated with the Project is summarized in Table 3.3-4. As shown in Table 3.3-4, the Project's increase in electricity usage would constitute approximately 0.0026% of the typical

annual electricity usage and approximately 0.0024% of the typical annual natural gas consumption in the County. Construction-related off-road automotive fuel consumption (i.e., fuel consumed during construction) would constitute approximately 0.0119% of the diesel and 0.0003% of the gasoline consumption within the County. During operations, on-road automotive fuel consumption (i.e., fuel consumed from operational vehicle trips to and from the Project site) would constitute approximately 0.0150% of the diesel and approximately 0.0024% of the gasoline consumption within the County.

Table 3.3-4. Project and Countywide Energy Consumption

Energy Type	Project Annual Energy Consumption	Los Angeles County Annual Energy Consumption[1,2]	Percentage of Countywide Consumption
Operational Electricity and Natural Gas			
Electricity Consumption	4,520,192 kWh	65,374,721,369 kWh	0.0071%
Natural Gas Consumption[3]	63,561 therms	2,880,994,891 therms	0.0022%
Automotive Fuel Consumption[4]			
Project Construction[5,6]			
Diesel	65,171 gallons	526,229,424 gallons	0.0124%
Gasoline	8,960 gallons	3,774,778,086 gallons	0.0002%
Project Operations[7]			
Diesel	103,762 gallons	526,229,424 gallons	0.0197%
Gasoline	131,992 gallons	3,774,778,086 gallons	0.0035%

Source: Refer to Appendix D for assumptions used in this analysis.

Notes:

1 The Project increases in electricity and natural gas consumption are compared with the total consumption in Los Angeles County in 2021.

2 The Project increases in automotive fuel consumption are compared with the countywide fuel consumption (projected) in 2025.

3 It is noted that although the proposed Project would preclude natural gas infrastructure per Project Design Feature (PDF) GHG-1 from the 1450 Artesia Boulevard Specific Plan Project Greenhouse Gas Emissions Assessment (Kimley-Horn, June 2024), this analysis conservatively estimates Project energy consumption from natural gas

4 Countywide fuel consumption is from the California Air Resources Board EMFAC2021 model.

5 Construction fuel consumption is based on equipment and load factors from California Emissions Estimator Model (CalEEMod version 2022.1).

6 The estimated construction fuel consumption is based on the Project's construction equipment list timing/phasing, and hours of duration for construction equipment, as well as vendor, hauling, and construction worker trips.

7 Due to CARB's Zero-Emission Off-Road Forklift Regulation Phase 1 requiring on-site forklifts to be non-diesel, diesel use is solely from truck operations.

Construction-Related Energy

During construction, the Project would consume energy in two general forms: (1) the fuel energy consumed by construction vehicles and equipment; and (2) bound energy in construction materials, such as asphalt, steel, concrete, pipes, and manufactured or processed materials such as lumber and glass.

Fossil fuels used for construction vehicles and other energy-consuming equipment would be used during grading, paving, and building construction. Fuel energy consumed during construction would be temporary in nature and would not represent a significant demand on energy resources. Some incidental energy conservation would occur during construction through compliance with state requirements that equipment not in use for more than 5 minutes be turned off. Project construction equipment would also be required to comply with the latest EPA and California Air Resources Board engine emissions standards. These emissions standards require highly efficient combustion systems that maximize fuel efficiency and reduce unnecessary fuel consumption. Due to increasing transportation costs and fuel prices, contractors and owners have a strong financial incentive to avoid wasteful, inefficient, and unnecessary consumption of energy during construction.

Substantial reductions in energy inputs for construction materials can be achieved by selecting building materials composed of recycled materials that require substantially less energy to produce than non-recycled materials. In addition, the recycled materials can be less expensive than virgin materials, particularly if they are sourced locally and have lower transportation costs (Construction Engineering 2023). The incremental increase in the use of energy bound in construction materials such as asphalt, steel, concrete, pipes and manufactured or processed materials (e.g., lumber and gas) would not substantially increase demand for energy compared to overall local and regional demand for construction materials. It is reasonable to assume that production of building materials such as concrete, steel, etc., would employ all reasonable energy conservation practices in the interest in minimizing the cost of doing business.

As shown in Table 3.3-4, the overall diesel fuel consumption during construction of the Project would be 65,171 gallons and gasoline consumption would be 8,960 gallons, which would result in a nominal increase in fuel use in the County. Further, the energy use associated with water use during construction would result in 6,316 kW. As such, Project construction would have a minimal effect on the local and regional energy supplies. It is noted that construction fuel use is temporary and would cease upon completion of construction activities. There are no unusual Project characteristics that would necessitate the use of construction equipment that would be less energy-efficient than at comparable construction sites in the region or state. Therefore, construction fuel consumption would not be any more inefficient, wasteful, or unnecessary than other similar development projects of this nature. Impacts would be less than significant, and no mitigation is required.

Operational Energy

Energy Demand

Transportation Energy Demand

Pursuant to the Federal Energy Policy and Conservation Act of 1975, the National Highway Traffic and Safety Administration (NTSA) is responsible for establishing additional vehicle standards and for revising existing standards. Compliance with federal fuel economy standards is not determined for each individual vehicle model. Rather, compliance is determined based on each manufacturer's average fuel economy for the portion of their vehicles produced for sale in the United States. Table 3.3-4 provides an estimate of the daily fuel consumed by vehicles traveling to and from the Project site. As indicated in Table 3.3-4, Project operations are estimated to consume approximately 103,762 gallons of diesel fuel and 131,992 gallons of gasoline fuel per year, which constitutes approximately 0.019% and 0.0035% of Countywide consumption, respectively. The Project would not result in any unusual characteristics that would result in excessive long-term operational fuel consumption. Fuel consumption associated with vehicle trips generated by the Project would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region.

Building Energy Demand

Operation of the Project would require approximately 4,819,410 kWh of electricity per year and approximately 63,561 therms of natural gas per year. The Project would comply with Title 24 Building Energy Efficiency Standards, which provide minimum efficiency standards related to various building features, including appliances, water and space heating and cooling equipment, building insulation and roofing, and lighting. Implementation of the Title 24 standards significantly reduces energy usage. Furthermore, the electricity provider, SCGE, is subject to California's Renewables Portfolio Standard (RPS). The RPS requires investor-owned utilities, electric service providers, and community choice aggregators to increase procurement from eligible renewable energy resources to 36% of total procurement by 2020 and to 60% of total procurement by 2030. Renewable energy is generally defined as energy that comes from resources that are naturally replenished within a human timescale, such as sunlight, wind, tides, waves, and geothermal heat. The increase in reliance of such energy resources further ensures projects will not result in the waste of the finite energy resources.

As shown in Table 3.3-4, operational energy consumption would represent an approximate 0.0071% of electricity consumption of the current Countywide usage. The Project would adhere to all federal, state, and local requirements for energy efficiency, including the Title 24 standards. As such, the Project would not result in the inefficient, wasteful, or unnecessary consumption of building energy.

Special Events

The various special events to be hosted two to three times per month are anticipated to attract an average of 220 attendees in addition to the 725 estimated daily vehicle trips. According to the 1450 Artesia Blvd Special Events Trip Generation Technical Memorandum (Special Events Trip Generation Memorandum) (Kimley-Horn, June 2023), these 250 attendees are estimated to generate an additional 220 vehicle trips to the Project site on special event days. Since special events are only expected to occur a few times a month, the additional vehicle trips would not significantly increase

the annual energy consumption that result from mobile sources as compared to the standard operations of the Project. To account for the special events similar to the GHG analysis, VMT was increased 3% for fuel usage.

Summary

As shown in Table 3.3-4, the increase in electricity and automotive fuel consumption over existing conditions is minimal. For the reasons described above, the Project would not place a substantial demand on regional energy supply or require significant additional capacity, or significantly increase peak and base period electricity demand. Thus, the Project would not cause a wasteful, inefficient, and unnecessary consumption of energy during Project construction, operation, and/or maintenance, or preempt future energy development or future energy conservation. Impacts would be **less than significant**, and no mitigation is required.

Threshold ENG-2 Would the Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Title 24 of the California Code of Regulations contains energy efficiency standards for residential and non-residential buildings based on a state mandate to reduce California's energy demand. Specifically, Title 24 addresses a number of energy efficiency measures that impact energy used for lighting, water heating, heating, and air conditioning, including the energy impact of the building envelope such as windows, doors, skylights, wall/floor/ceiling assemblies, attics, and roofs.

Part 6 of Title 24 specifically establishes energy efficiency standards for residential and nonresidential buildings constructed in the State of California in order to reduce energy demand and consumption. The Project would comply with Title 24, Part 6 per state regulations. In accordance with Title 24 Part 6, the Project would have: (a) sensor-based lighting controls— for fixtures located near windows, the lighting would be adjusted by taking advantage of available natural light; and, (b) efficient process equipment—improved technology offers significant savings through more efficient processing equipment.

Title 24, Part 11, contains voluntary and mandatory energy measures that are applicable to the Project under the California Green Building Standards Code. As discussed above, the Project would result in an increased demand for electricity, natural gas, and petroleum. In accordance with Title 24 Part 11 mandatory compliance, the Applicant would have (a) 50% of its construction and demolition waste diverted from landfills; (b) mandatory inspections of energy systems to ensure optimal working efficiency; (c) low pollutant emitting exterior and interior finish materials, such as paints, carpets, vinyl flooring and particle boards; and (d) a 20% reduction in indoor water use. Compliance with all of these mandatory measures would decrease the consumption of electricity, natural gas, and petroleum.

The Gardena CAP establishes a series of energy efficiency related measures intended to reduce GHG emissions based on the AB 32 Scoping Plan. Those applicable to the Project are Renewables Portfolio Standard for Building Energy Use, Assembly Bill 1109 Energy Efficiency Standards for Lighting, Electricity Energy Efficiency, Residential Energy Efficiency Standards, Commercial Energy Efficiency Requirements and Residential Renewable Energy Requirements.

The Project would not conflict with any of the federal, state, or local plans for renewable energy and energy efficiency. Because the Project would comply with Parts 6 and 11 of Title 24 and with Gardena CAP measures, no conflict with existing energy standards and regulations would occur. Therefore, impacts associated with renewable energy or energy efficiency plans would be considered **less than significant**.

3.3.6 Mitigation Measures

Impacts would be less than significant. As such, no mitigation measures are required.

3.3.7 Level of Significance After Mitigation

Threshold ENG-1: Would the Project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation?

The Project would have a **less-than-significant impact** with regard to the wasteful, inefficient, or unnecessary consumption of energy resources, during Project construction or operation. No mitigation is required.

Threshold ENG-2: Would the Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

The Project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency and impacts would be **less than significant**. No mitigation is required.

3.3.8 Cumulative Effects

Cumulative projects that could exacerbate the Project's impacts include any projects that could result in wasteful, inefficient, or unnecessary use of energy. However, cumulative projects would be required by the City of Gardena, to conform to current federal, state, and local energy conservation standards, including the California Energy Code Building Energy Efficiency Standards (24 CCR Part 6), the CALGreen Code (24 CCR Part 11), and SB 743.

By complying with the above regulatory measures, the Project, in combination with other reasonably foreseeable projects, would not cause a wasteful use of energy or other non-renewable natural resources. Therefore, the energy demand and use associated with the Project and cumulative projects would not substantially contribute to a cumulative impact on existing or proposed energy supplies or resources and would not cause a significant cumulative impact on energy resources. As such, the Project's contribution to cumulative impacts related to wasteful, inefficient, and unnecessary use of electricity would not be cumulatively considerable and, thus, would be less than significant.

Furthermore, the Project would not conflict with applicable plans for renewable energy as it would implement energy-saving measures pursuant to Title 24 and would comply with the Gardena CAP. Other projects, including development throughout the state, would also be subject to the Title 24 standards in place at the time of construction. It is speculative whether other projects would conflict with a state or local plan for renewable energy. However, future projects would be subject to CEQA and evaluate whether

they would conflict with applicable plans. As such, the Project in combination with other reasonably foreseeable projects, would not conflict with a state or local plan for renewable energy or energy efficiency. The Project's contribution to cumulative impacts related to renewable energy or energy efficiency would not be cumulatively considerable and, thus, would be **less than significant**.

3.3.9 References

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3.4 Geology and Soils

This section describes the existing geological conditions of the Project site and vicinity, identifies associated regulatory requirements, evaluates potential impacts, cumulative impacts, and identifies mitigation measures related to implementation of the proposed 1450 Artesia Specific Plan Project (Project or proposed Project). The analysis of the potential Project impacts related to geology and soils is partly based on information provided in a site-specific geotechnical report conducted by Carl Kim Geotechnical Inc., dated February 4, 2022, which is included as Appendix E to this EIR. Paleontological resources were considered and evaluated as part of the Cultural Resources Assessment, included as Appendix C to this EIR.

Information contained in this section is based on the above referenced reports of the Project area and other publicly available information from the United States Geological Survey, the California Geological Survey (CGS), and Southern California Earthquake Data Center. Other sources consulted are listed in Section 3.4.8, References.

3.4.1 Existing Conditions

This section describes the existing conditions in the Project area and identifies the resources that could be affected by the Project.

Regional Geologic Setting

The City of Gardena (City) is located within the Peninsular Ranges geomorphic province, which extends from the Los Angeles Basin south of the Santa Monica Mountains to the tip of Baja California and includes the San Jacinto and Santa Ana Mountain Ranges, as well as Santa Catalina Island (CGS 2002). The Peninsula Ranges province is characterized by elongated northwest-trending mountain ranges separated by straight-sided sediment floored valleys. The northwest trend is further reflected in the direction of the dominant geologic structural features of the province, which are northwest-trending faults and folds created by the boundary of the Pacific and North American tectonic plates. The lateral movement of these plates has created shear zones that have produced the San Andreas fault zone as well as other regional faults. Regional faults in the vicinity of the Project area include the Newport-Inglewood Fault Zone, Palos Verde, Whittier-Elsinore, Raymond, Hollywood, Whittier, and Santa Monica faults (CGS 2023).

Topography

The Project site and surrounding area is part of the Los Angeles Coastal Plain and generally relatively level in an urban, developed commercial and residential area, with little of the natural topography remaining. The developed portion of the Project site on the western side is at an elevation of approximately 29 feet above mean sea level (amsl) with a slight gradient towards the south southeast. The current grade ranges from about elevation 38 feet amsl in the southern portion of the site to about 19 feet amsl along the east edge of the site. The western portion of the site where the former sump disposal areas (also known as the Gardena Sumps or Cooper and Haack Sumps) were located, appears to currently be at an elevation that is a few feet below the surrounding grade.

Subsurface Soils

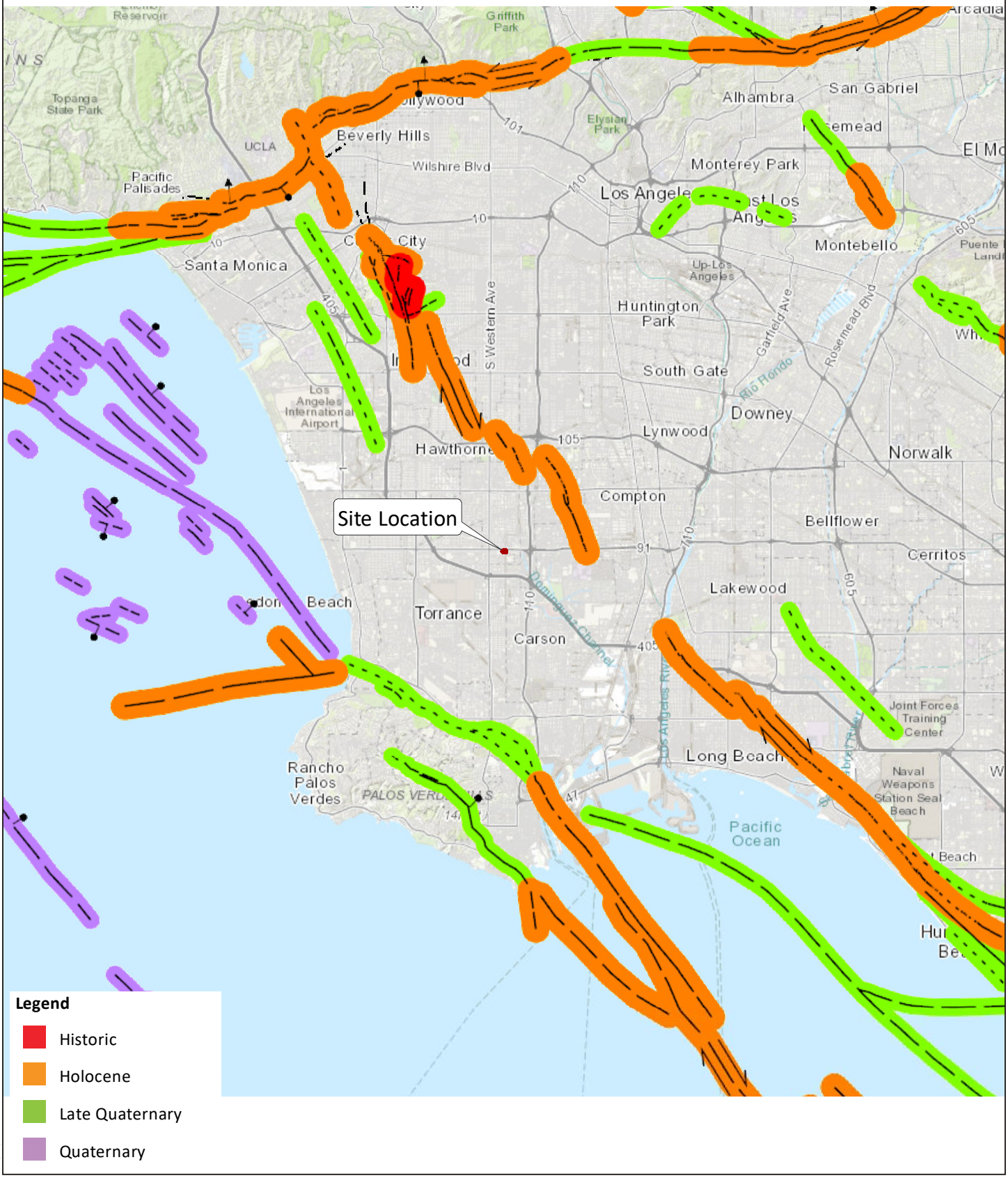
Based on geotechnical borings completed at the Project site as part of a site-specific geotechnical investigation, on-site geologic materials encountered included varying amounts of artificial fill and sludge-bearing undocumented fill overlying native alluvial soils (Appendix E). The artificial fill soils were encountered to a depth of approximately 5 feet below ground surface and may contain buried debris (e.g., bricks, asphalt, and concrete rubble). The artificial fill materials are generally characterized as silty sand and sandy silts. The undocumented sludge-bearing fill materials are associated with the former sump locations on the eastern portion of the site and include mixtures of sand, silt clay, brick or other debris along with zones of materials described as "sludge" (Appendix E). The sludge was generally described in the geotechnical report as "acidic, black, soft to dense, dry to wet, vitreous to fibrous, semi-solidified to solidified tar" (Appendix E). The sludge material was also found to be layered with fine sand, and occasionally silt and clay soil. In the areas of the sumps, the undocumented fills and sludge fills are deeper and can range up to 16 feet deep. The native alluvial soils were found to generally consist of silty sand, sandy silt, silt, and some clay layers (Appendix E). At depths of approximately 25 to 30 feet below ground surface, finer grained layers of clay of silt become more prevalent (Appendix E).

Seismicity and Faulting

The Los Angeles Basin is located in a very seismically active region with numerous large and well-known faults that have greatly influenced landforms and seismicity of the area (Figure 3.4-1, Regional Faults). The fault closest to the Project site is the Newport-Inglewood Fault, located approximately 2.6 miles to the east of the Project site. Other significant faults in the region include the Palos Verde Fault Zone, the Whittier-Elsinore Fault System, the Santa Monica Fault Zone, the Hollywood Fault, the Raymond Fault, and the Puente Hills and Elysian Park blind thrusts (Appendix E).

According to criteria established by the California Geological Survey, faults are categorized as follows:

- **Holocene-active faults:** faults that have shown evidence of displacement within the past approximately 11,700 years (i.e., Holocene time). These faults exhibit signs of geologically recent movement, are considered most likely to experience movement in the near future, and are capable of surface fault rupture. Faults that meet these criteria are known as "active faults."
- **Pre-Holocene faults:** faults that have not shown evidence of displacement in the past 11,700 years but are known to have displaced materials between 11,700 and 2 million years ago (i.e., Quaternary time). These faults were once known as "potentially active faults" and may be capable of seismicity (i.e., earthquakes), but are considered unlikely to cause surface rupture.
- **Age-undetermined faults:** faults where the recency of fault movement has not been determined. These faults are considered "inactive faults."



SOURCE: USGS; CA Department of Conservation; CKGEO 2022

FIGURE 3.4-1

Regional Faults

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Holocene-active faults have been responsible for large historical earthquakes in Southern California, including the 1971 San Fernando earthquake (moment magnitude[1] [Mw] 6.7), the 1992 Landers earthquake (Mw 7.3), the 2019 Searles Valley earthquake (Mw 7.1), the 1952 Kern County earthquake (Mw 7.5), and the 1933 Long Beach earthquake (Mw 6.4). The moment magnitude is the most commonly used method of describing the size of earthquakes. It measures the size of seismic events in terms of how much energy is released, and it relates to the amount of rock movement. The Southern California region also includes blind thrust faults, which are faults that do not rupture at the surface but are capable of generating substantial earthquakes and associated ground shaking. Examples include the 1987 Whittier Narrows earthquake (Mw 5.9) and the 1994 Northridge earthquake (Mw 6.7). Both of these earthquakes occurred on previously unidentified blind thrust faults.

Most of the Holocene-active faults in California are recognized as fault zones in accordance with the Alquist-Priolo Earthquake Fault Zoning Act. Fault zones are defined as a region, varying in width but typically approximately 0.25 miles in width, that bounds major fault traces. The Project site is not located within or immediately adjacent to any Alquist-Priolo Earthquake Fault Zone (CGS 2023).

Regional Holocene-active faults within the vicinity of the Project site are listed in Table 3.4-1, Regional Faulting, and are described in the following subsections. Distances from the Project site to individual faults represent the distance to the nearest fault segment within the respective fault zones.

San Andreas Fault

The Holocene-active San Andreas Fault is California's most prominent structural feature, trending in a generally northwest direction for almost the entire length of the state. The southern segment of the fault is approximately 280 miles long, extending from the Mexican border into the Transverse Ranges west of Tejon Pass. Along this segment, there is no single traceable fault line; rather, the fault is composed of several branches. The fault is located approximately 47 miles to the northeast of the Project site and is capable of producing up to a Mw 8.25 earthquake (CGS 2023; CIT 2023).

Newport-Inglewood Fault

The Holocene-active Newport-Inglewood Fault is located approximately 2.6 miles to the east of the Project site and extends from the southern edge of the Santa Monica Mountains southeastward to an area offshore of Newport Beach and possibly offshore beyond San Diego. This zone can be traced at the surface by following a line of relatively young anticlinal (folded) hills and mesas. These hills and mesas include the Cheviot Hills, Baldwin Hills, Rosecrans Hills, Dominguez Hills, Signal Hill-Reservoir, Alamitos Heights, Landing Hill, Bolsa Chica Mesa, Huntington Beach Mesa, and Newport Mesa. Earthquake focal mechanisms for 39 small earthquakes (1977 to 1985) show faulting along the north segment (north of Dominguez Hills) and along the south segment (south of Dominguez Hills to Newport Beach). The 1933 Long Beach earthquake (magnitude 6.3) has been attributed to movement on the Newport-Inglewood Fault Zone. Based on historic earthquakes, the fault zone is considered Holocene-active. Movement along the fault is northeast side up, resulting in vertical

[1] Moment magnitude (Mw) is considered to be a more reliable estimate of an earthquake's size as compared to the more well-known Richter magnitude (M) scale; however, both scales are used in this section, depending on what is used in the reference material.

displacement of water-bearing sediments extending for several miles. The Newport-Inglewood Fault is capable producing of a maximum probable magnitude Mw 6.0 to 7.5 earthquake (CIT 2023).

Palos Verde Fault

The Holocene-active to pre-Holocene Palos Verdes Fault is located approximately 6 miles west of the Project site and is traceable in the subsurface along the northern front of the Palos Verdes Hills. Offshore data, consisting of acoustic and reflection profiles, suggests very recent movement along the Palos Verdes Fault. No historic large magnitude earthquakes are associated with this fault; however, it is estimated that this fault is capable of producing a maximum probable magnitude Mw 6.0–7.7 earthquake (CIT 2023).

Whittier-Elsinore Fault

The Whittier-Elsinore Fault is located approximately 17 miles to the east of the Project site. The Whittier Fault together with the Chino Fault comprises the northernmost extension of the northwest trending Elsinore fault system. The mapped surface of the Whittier Fault extends in a west-northwest direction for a distance of 20 miles from the Santa Ana River to the terminus of the Puente Hills. It is estimated that this fault is capable of producing a magnitude Mw 7.8 earthquake (CIT 2023).

Raymond Fault

The Raymond Fault is located approximately 18 miles to the northeast of the Project site. This fault serves as a groundwater barrier, which divides the San Gabriel Valley into groundwater subbasins. Much of the geomorphic evidence of this fault has been destroyed by urbanization. The recurrence interval for this fault is estimated to be approximately 3,000 years, with a documented event occurring 1,600 years ago. Historical accounts also suggest an event occurring in 1855 associated with the Raymond Fault. The Raymond Fault is estimated to be capable of producing a magnitude Mw 6.8 earthquake (CIT 2023).

Hollywood Fault

The northeast–southwest trending Hollywood Fault (Holocene-active) is a left-reverse lateral strike-slip fault that is deeply buried, is concealed by dense urbanization, and is located approximately 16 miles north of the Project site. This fault trends east-west along the base of the Santa Monica Mountains from the West Beverly Hills Lineament in the West Hollywood-Beverly Hills area to the Los Feliz area of Los Angeles. The Hollywood Fault has not produced any damaging earthquakes during the historical period (i.e., from 1769 to the present) and has had relatively minor micro-seismic activity. It is estimated that the Hollywood Fault is capable of producing a maximum magnitude Mw 6.7 earthquake (CIT 2023).

Blind Thrusts Faults

Buried or blind thrusts faults are faults without a surface expression but are significant sources of seismic activity. Due to their buried nature, their existence is sometimes not known until they produce an earthquake. There are two blind thrust faults in the Los Angeles metropolitan region, identified as the Elysian Park blind thrust and the Puente Hills blind thrust. The Puente Hills blind thrust extends

eastward from downtown Los Angeles to the City of Brea in northern Orange County BSSA 2002). This fault includes three north-dipping segments, named from east to west as the Coyote Hills segment, the Santa Fe Springs segment, and the Los Angeles segment. The Elysian Park bling thrust fault, located approximately 19 miles northeast of the site, has been estimated to cause an earthquake every 500 to 1,300 years in the magnitude range of Mw 6.2 to 6.7. This fault is located approximately 15 miles to the northeast of the Project site.

Table 3.4-1. Regional Faulting

Regional Faulting	Approximate Closest Distance to Project Site (miles)	Fault Age	Magnitude Potential (Mw)
Newport-Inglewood Fault	2.6	Holocene-active	7.5
Palos Verdes Fault	5.8	Holocene-active to pre-Holocene	7.7
Whittier-Elsinore Fault System	17	Holocene-active	7.8
Santa Monica Fault	14.6	Holocene-active	7.4
Hollywood Fault	15.9	Holocene-active	6.7
Raymond Fault	18.2	Holocene-active	6.8
Puente Hills Blind Thrust System	8.5	Holocene-active	7.0
Elysian Park Fault	15	Holocene-active	6.7
San Andreas Fault	46.8	Holocene-active	8.25

Source: CGS 2023; CIT 2023; BSSA 2002.

Ground Shaking

Ground shaking is the movement of the earth's surface as a result of an earthquake. Ground motion produced by seismic waves emanates from slow or sudden slip on a fault. The degree of ground shaking felt at a given site depends on a number of different factors including the distance from the earthquake source, the magnitude of the earthquake, the type of subsurface material on which the site is situated, duration of shaking and topography. Generally, ground shaking is less severe on rock than on alluvium or fill where the materials under some conditions can amplify ground shaking, but other local characteristics may override this generalization. Ground shaking can produce significant ground horizontal and vertical movement that can result in severe damage to structures that are generally not equipped to withstand it. The Project site is located in the seismically active Southern California region and could be subject to moderate to strong ground shaking in the event of an earthquake on one of the many Holocene-active Southern California faults.

Detectable ground shaking at the Project site could be observed by a seismic event occurring on any of the active or potentially active faults in the region. The amount of ground shaking would depend on a number of factors including distance and depth to the epicenter. The Newport-Inglewood, Whittier, Santa Monica, and Palos Verdes Faults are the active faults most likely to cause high ground accelerations within the City, as a whole; however, the San Andreas Fault has the highest probability of generating a maximum credible earthquake in California within the next 30 years (USGS 2015).

Surface Rupture

Surface rupture involves the displacement and cracking of the ground surface along a fault trace. Surface ruptures are visible instances of horizontal or vertical displacement, or a combination of the two, typically confined to a narrow zone along the fault. Surface rupture is more likely to occur in conjunction with active fault segments where earthquakes are large, or where the location of the movement (earthquake hypocenter) is shallow.

The Alquist-Priolo Earthquake Fault Zoning Act of 1972 regulates development near Holocene-active faults to mitigate the hazard of surface fault rupture. This act requires the state geologist to establish regulatory zones (known as Alquist-Priolo Special Study Fault Zones) around the surface traces of Holocene-active faults and to issue appropriate maps. Local agencies must regulate development projects within these zones by requiring a fault hazard geologic investigation that can demonstrate that proposed buildings will not be constructed across active faults. If a Holocene-active fault is found, a structure for human occupancy cannot be placed over the trace of the fault and must be set back from the fault.

The Project site is not located within or adjacent to any Alquist-Priolo Earthquake Fault Zone (Appendix E; CGS 2023). There are no known Holocene-active or Pre-Holocene faults that underlie the Project site and the closest Alquist-Priolo Fault to the Project site is the Newport-Inglewood Fault, located approximately 2.6 miles to the northeast (Appendix E).

Liquefaction

Liquefaction is a process by which water-saturated cohesionless granular soils below the groundwater table are subject to a temporary loss of strength due to the buildup of excess pore pressure during cyclic loading conditions such as those induced by an earthquake. Materials will then behave more like a liquid than a solid. Liquefaction-related effects include loss of bearing strength, amplified ground oscillations, lateral spreading, and flow failures. Liquefaction typically occurs in areas where groundwater is less than 50 feet from the surface, and where soils are composed of poorly consolidated, fine to medium-grained sand. In addition to the necessary soil conditions, the ground acceleration and duration of the earthquake must also be of sufficient level to initiate liquefaction.

Liquefaction can result in the shifting of foundations, settling of roadways, and rupture of underground pipelines and cables. Buildings and other objects on the ground surface can settle, tilt, and collapse as the foundations beneath them lose support, and lightweight buried structures may float to the surface. The northwest corner of the Project site is located in an area that has been mapped as being potentially susceptible to liquefaction area (Figure 6 of Appendix E). However, according to site specific analysis conducted during the preliminary geotechnical investigation of the Project site, the liquefaction hazard at the site was deemed to be low (Appendix E).

Lateral Spreading

Lateral spreading, a geotechnical hazard related to liquefaction, occurs when liquefiable materials move as a block towards an exposed slope or free face of a slope. Compact surface materials may slide on a liquefied or low shear strength layer at a shallow depth, moving laterally several feet down slopes of less than 2 degrees. Such a condition may be present where conditions conducive to

shallow liquefaction exist. However, it was determined that the potential for lateral spreading to occur within the Project site is low (Appendix E).

Slope Instability/Landslides

A landslide is the downhill movement of masses of earth material under the force of gravity. The factors contributing to landslide potential are steep slopes, unstable terrain, and proximity to earthquake faults. This process typically involves the surface soil and an upper portion of the underlying bedrock. Movement may be very rapid, or so slow that a change of position can be noted only over a period of weeks or years (creep). The size of a landslide can range from several square feet to several square miles.

The Project site is located in a developed area that is relatively level and is not located near any exposed hillsides. In addition, the Project site is not located with an earthquake-induced landslide zone (Appendix E). Because of the little to no change in topography of the site, the geotechnical report determined that landslides do not pose a hazard at the Project site (Appendix E).

Subsidence

Subsidence is the permanent collapse of the pore space within a soil or rock and downward settling of the earth's surface relative to its surrounding area. Subsidence can result from the extraction of water or oil, liquefaction, or the addition of water to the land surface—a condition called "hydrocompaction." The compaction of subsurface sediment caused by the withdrawal or addition of fluids can cause subsidence. Land subsidence can disrupt surface drainage, reduce aquifer storage, cause earth fissures, damage buildings and structures, and damage wells, roads, and utility infrastructure.

In general, the greater Los Angeles metropolitan area experiences subsidence due to a variety of natural and human-induced causes including tectonic deformation, oil-field operations, and groundwater extraction and injection. Since these activities occur in overlapping proximity, it can be difficult to determine the cause of observed deformations using standard surveying techniques (USGS 2023). Human-induced land deformation also produces horizontal surface motion that obscures, or in some cases mimics, the tectonic signals expected from the blind thrust faults beneath Los Angeles. However, according to mapping compiled by the U.S. Geological Survey, the Project site is located to the north of an area of subsidence attributed to groundwater withdrawal (USGS 2023).

Expansive Soils

Expansive soils exhibit volumetric changes with changing moisture content where they tend to swell with seasonal increases in soil moisture in the winter months and shrink as soils become drier in the summer months. Repeated shrinking and swelling of expansive soils over time can lead to stress and damage of structures, foundations, and fill slopes and can cause overlying concrete to crack and settle. Soils with a high clay content typically have high shrink/swell characteristics. According to the soil sampling performed during the geotechnical investigation of the Project site, the surficial soils at the Project site were found to have a low to very low expansion potential (Appendix E).

Paleontological Resources

Paleontological resources, or fossils, are the remains of once living plants and/or animals and their traces (e.g., burrows and tracks) preserved in Earth's crust, and are generally considered to be greater than 5,000 years old or prior to recorded human history per the Society of Vertebrate Paleontology (SVP 2010) guidelines. With the exception of fossils found in low-grade metasedimentary rocks, significant paleontological resources are found in sedimentary rock units that are old enough to preserve the remains or traces of plants and animals.

As discussed in the Cultural Resources Assessment, included as Appendix C to this EIR, the geologic units underlying the Project site are mapped as Holocene alluvial fan deposits of clay and sand. Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits.

3.4.2 Relevant Plans, Policies, and Ordinances

Federal

The following federal regulations pertaining to seismicity and geologic hazards would apply to the Project.

Earthquake Hazards Reduction Act

In October 1977, the U.S. Congress passed the Earthquake Hazards Reduction Act to reduce the risks to life and property from future earthquakes in the United States through the establishment and maintenance of an effective earthquake hazards reduction program. To accomplish this goal, the act established the National Earthquake Hazards Reduction Program. This program was substantially amended in November 1990 by the National Earthquake Hazards Reduction Program Act, which refined the description of agency responsibilities, program goals, and objectives.

The mission of National Earthquake Hazards Reduction Program includes improved understanding, characterization, and prediction of hazards and vulnerabilities; improved building codes and land-use practices; risk reduction through post-earthquake investigations and education; development and improvement of design and construction techniques; improved mitigation capacity; and accelerated application of research results. The National Earthquake Hazards Reduction Program Act designates the Federal Emergency Management Agency as the lead agency of the program and assigns several planning, coordinating, and reporting responsibilities. Other National Earthquake Hazards Reduction Program Act agencies include the National Institute of Standards and Technology, National Science Foundation, and the U.S. Geological Survey.

State

The following state regulations pertaining to seismicity and geologic hazards would apply to the Project.

Seismic Hazards Mapping Act

The Seismic Hazards Mapping Act of 1990 (PRC Sections 2690–2699.6) addresses earthquake hazards from non-surface fault rupture, including liquefaction and seismically induced landslides.

The act established a mapping program for areas that have the potential for liquefaction, landslide, strong ground shaking, or other earthquake and geologic hazards. Under the Seismic Hazards Mapping Act, the State Geologist is required to delineate "seismic hazard zones." Cities and counties must regulate certain development projects within these zones until the geologic and soil conditions of their project sites have been investigated and appropriate mitigation measures, if any, have been incorporated into development plans. Under California Public Resources Code Section 2697, cities and counties must require, prior to the approval of a project located in a seismic hazard zone, submission of a Preliminary Geotechnical Report defining and delineating any seismic hazard. State publications supporting the requirements of the Seismic Hazards Mapping Act include the CGS SP 117A, Guidelines for Evaluating and Mitigating Seismic Hazards in California (CGS 2008), discussed previously, and SP 118, Recommended Criteria for Delineating Seismic Hazard Zones in California. SP 117A provides guidelines to assist in the evaluation and mitigation of earthquake-related hazards for projects within designated zones requiring investigations and to promote uniform and effective Statewide implementation of the evaluation and mitigation elements of the Seismic Hazards Mapping Act.[2] SP 118 provides recommendations to assist the CGS in carrying out the requirements of the Seismic Hazards Mapping Act to produce the Probabilistic Seismic Hazard Maps for the State. The Project site is partially located within a seismic hazard zone for liquefaction and must conform to the requirements of the Seismic Hazards Mapping Act.

National Pollutant Discharge Elimination System Permit

In California, the State Water Resources Control Board administers regulations promulgated by the U.S. Environmental Protection Agency (55 CFR 47990), requiring the permitting of stormwater-generated pollution under the National Pollutant Discharge Elimination System (NPDES). In turn, the State Water Resources Control Board's jurisdiction is administered through nine Regional Water Quality Control Boards. Under these federal regulations, an operator must obtain a general permit through the NPDES Stormwater Program for all construction activities with ground disturbance of 1 acre or more. The general permit requires the implementation of best management practices (BMPs) to reduce sedimentation into surface waters and to control erosion. One element of compliance with the NPDES permit is preparation of a Stormwater Pollution Prevention Plan (SWPPP) that addresses control of water pollution, including sediment, in runoff during construction.

California Building Code

The state regulations protecting structures from geo-seismic hazards are contained in the California Code of Regulations (CCR), Title 24, Part 2 (the California Building Code [CBC]), which is updated every 3 years. These regulations apply to public and private buildings in the state and establish minimum standards to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, and general stability. The CBC is based on the International Building Code of the International Code Council, with California amendments. The 2022 CBC, which became effective January 1, 2023, is based on the 2021 International Building Code and enhances

[2] Special Publication 117A, Guidelines for Evaluating and Mitigating Seismic Hazards in California, prepared by California Geologic Survey, 2008, http://www.conservation.ca.gov/cgs/shzp/webdocs/Documents/sp117.pdf.

the sections dealing with existing structures. Seismic-resistant construction design is required to meet more stringent technical standards than those set by previous versions of the CBC.

Construction activities are subject to occupational safety standards for excavation and trenching, as specified in the California Safety and Health Administration regulations (Title 8 of the CCR) and in Chapter 33 of the CBC. These regulations specify the measures to be used for excavation and trench work where workers could be exposed to unstable soil conditions. The construction contractors would be required to employ these safety measures during any excavation and trenching required for construction.

Paleontological Resources

Paleontological resources are limited, nonrenewable resources of scientific, cultural, and educational value and are afforded protection under state laws and regulations (California Environmental Quality Act [CEQA]). Paleontological resources are explicitly afforded protection by CEQA, specifically in Section VII(f) of CEQA Guidelines Appendix G, the Environmental Checklist Form, which addresses the potential for adverse impacts to "unique paleontological resource[s] or site[s] or … unique geological feature[s]" (CEQA Guidelines Section 15000 et seq.). This provision covers fossils of single importance—remains of species or genera new to science, for example, or fossils exhibiting features not previously recognized for a given animal group—as well as localities that yield fossils significant in their abundance, diversity, preservation, and so forth. Further, CEQA provides that, generally, a resource shall be considered "historically significant" if it has yielded or may be likely to yield information important in prehistory (CEQA Guidelines Section 15064.5[a][3][D]). Paleontological resources would fall within this category. The California Public Resources Code, Chapter 1.7, Sections 5097.5 and 30244, also regulates removal of paleontological resources from state lands, defines unauthorized removal of fossil resources as a misdemeanor, and requires mitigation of disturbed sites.

Local

The following local/regional regulations pertaining to seismicity and geologic hazards would apply to the Project.

City of Gardena General Plan

The City of Gardena General Plan was adopted in 2006 and includes goals and policies within the required elements including the Public Safety Plan and the Conservation Plan. The Public Safety Plan within the General Plan for the City was updated and adopted February 2022. The following is a list of goals and policies applicable to the proposed Project relating to Geology and Soils:

Public Safety Plan

PS Goal 3. Protect the community from dangers associated with geologic instability, seismic hazards and other natural hazards.

PS 3.1: California Building Code. Require compliance with seismic safety standards in the California Building Code, as adopted and amended.

PS 3.2: Geotechnical Studies. Require geotechnical studies for all new development projects in the City, including those located in an Alquist-Priolo Earthquake Fault Zone or areas subject to liquefaction.

3.4.3 Thresholds of Significance

The significance criteria used to evaluate the Project impacts related to geology and soils are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to geology and soils would occur if the Project would:

1. Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
   a. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42?
   b. Strong seismic ground shaking?
   c. Seismic-induced ground failure, including liquefaction?
   d. Landslides?
2. Result in substantial soil erosion or the loss of topsoil?
3. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?
4. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?
5. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?
6. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Based on the results of the Initial Study prepared for the Project (Appendix A), the Project would result in less-than-significant geology and soils impacts related to resulting in substantial soil erosion or the loss of top soil and no impacts with regard to landslides or having soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water. As such the following thresholds are evaluated in this section of the Draft EIR:

GEO-1. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

   i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42?
   ii. Strong seismic ground shaking?

iii. Seismic-induced ground failure, including liquefaction?

GEO-2. Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

GEO-3. Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

GEO-4. Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

3.4.4 Impact Analysis

Threshold GEO-1. Would the Project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault?

The Project site is not located within an Alquist-Priolo Earthquake Fault Zone. The closest such zone is located along the Newport-Inglewood Fault Zone, approximately 2.6 miles to the east of the Project site. In addition, no known faults traverse on or immediately adjacent to the Project site. Furthermore, development of the proposed Project would not directly or indirectly cause or exacerbate existing fault rupture risks. As a result, **no impacts** related to surface rupture of a known earthquake fault would occur.

ii Strong seismic ground shaking?

The Project site is located in the seismically active region of Southern California with numerous regional faults capable of causing substantive ground shaking at the Project site. The Holocene-active Newport-Inglewood Fault Zone is located relatively close (2.6 miles to the east) to the Project site. Other regional faults include the San Andreas, Palos Verde, Hollywood, Raymond, and Elysian Park faults), any of which could be the source of producing moderate to large seismic events (i.e., earthquakes) that could adversely affect the Project site, if the proposed improvements are not constructed appropriately and in accordance with current regulatory requirements. However, Project construction would be completed in accordance with current CBC requirements, which include seismic design criteria. The CBC provides procedures for earthquake-resistant structural design that includes considerations for on-site soil conditions, occupancy, and the configuration of the structure, including the structural system and height. Although substantial damage to structures may be unavoidable during large earthquakes, the proposed structures would be designed to resist structural collapse and thereby provide reasonable protection from serious injury, catastrophic property damage, and loss of life.

Chapters 18 and 18A of the CBC include (but are not limited to) the requirements for foundation and soil investigations (Sections 1803 and 1803A); excavation, grading, and fill (Sections 1804 and 1804A); damp-proofing and water-proofing (Sections 1805 and 1805A); allowable load-bearing

values of soils (Sections 1806 and 1806A); the design of foundation walls, retaining walls, embedded posts and poles (Sections 1807 and 1807A), and foundations (Sections 1808 and 1808A); and design of shallow foundations (Sections 1809 and 1809A) and deep foundations (Sections 1810 and 1810A). In conjunction with City policies aimed at mitigating and minimizing geologic hazards, the proposed Project would not directly or indirectly cause substantial adverse effects involving strong seismic ground shaking. Impacts would be **less than significant**, and no mitigation is required.

iii Seismic-induced ground failure, including liquefaction?

As discussed previously, according to mapping compiled by the CGS, the northwestern corner of the Project site is located in a seismic hazard zone for liquefaction. The preliminary geotechnical investigation included an evaluation for liquefaction at the Project site and determined that the potential for liquefaction at the site is low (Appendix E). Regardless, all proposed development within the Project site would be required to adhere to requirements of the CBC and Special Publication 117A, for anything located within the Liquefaction Seismic Hazard Zone, for the mitigation of liquefaction hazards. As part of adherence to these building code requirements, final Project designs would require geotechnical engineering measures such as site preparation (e.g., treatment of liquefiable layers or use of engineered fills) and foundation design that would minimize damage from the effects of liquefaction at the Project site as necessary to meet building code standards. In addition, development of the Project site would not increase or exacerbate the potential for liquefaction to occur and therefore would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismically related ground failure, including liquefaction. Impacts would be **less than significant**, and no mitigation is required.

Threshold GEO-2. Would the Project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

According to the geotechnical report that was prepared for the Project, the site is underlain by artificial fills, sludge-bearing fills, and alluvial deposits. The artificial fills are characterized in the geotechnical report as undocumented, which indicates that they may not have been placed in accordance with current compaction standards to adequately support proposed improvements.

The Project site is relatively level and there are no existing slopes or proposed grading that would create slope conditions that would be susceptible to slope failure or landslides. As a result, the potential to result in on- or off-site landslides would be considered less than significant. Lateral spreading, a geotechnical hazard related to liquefaction, was evaluated as part of the preliminary geotechnical investigation. The geotechnical report concluded that the site conditions are such (i.e., no continuous liquefiable layers that could move toward an unconfine area or open slope face) that the potential for lateral spreading is considered low (Appendix E). The potential for liquefaction was also determined to be low at the Project site. The Project site is located outside of a known area of subsidence and there would be no extraction of groundwater or petroleum at the site such that the potential for subsidence due to fluid withdrawal is not likely. Otherwise, even though there are undocumented artificial fills at the site that likely would not be sufficient to adequately support proposed improvements, building code requirements would include measures to ensure that site preparations (e.g., removal of artificial fills and replacement with engineered fills compacted to current building code standards) are included as part of design plans. Completion of these site

preparation measures, consistent with building code specifications, would ensure that underlying soil units are sufficient to adequately support proposed improvements on a long-term basis. As a result, with adherence to the current CBC and City building code requirements, the potential impacts related to unstable geologic units or soils would be **less than significant**, and no mitigation is required.

Threshold GEO-3. Would the Project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Expansive soils are clay-rich soils that can experience volumetric changes (i.e., shrinking and swelling) with changes in moisture content. Over time, these cyclical changes in volume can exert substantial pressure on foundations, resulting in structural distress and/or damage to above ground improvements. According to the preliminary geotechnical report, the underlying soils at the Project site were found to have low to very low expansion potential (Appendix E). Any imported engineered fill materials that might be brought onto the site would be required to meet building code specification, which would include ensuring that the fills have negligible expansive properties. As a result, the Project construction would not increase or exacerbate the potential for expansive soils to create substantial direct or indirect risk of the property and the potential impacts associated with expansive soils would be **less than significant**, and no mitigation is required.

Threshold GEO-4. Would the Project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

As discussed in the Cultural Resources Assessment, included as Appendix C to this EIR, the geologic units underlying the Project area is mapped as Holocene alluvial fan deposits of clay and sand. Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, if development requires any substantial depth of disturbance, the likelihood of reaching Pleistocene alluvial sediments would increase.

While the presence of any fossil material is unlikely, if excavation activity disturbs deeper sediment dating to the earliest parts of the Holocene or Late Pleistocene periods, the material would be scientifically significant such that potentially significant impacts could occur. Excavation activity associated with the development of the Project area is unlikely to be paleontologically sensitive; however, inclusion of mitigation measure MM-GEO-1 is required in order to reduce potentially significant impacts to paleontological resources, in the event that they are encountered. Impacts to paleontological resources would be **less than significant with mitigation**.

3.4.5 Mitigation Measures

In order to reduce potentially significant impacts to paleontological resources, the following mitigation measure is required.

MM-GEO-1 Inadvertent Discovery. In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Once documentation and collection of the find is completed, the monitor will remove the rope and allow grading

to recommence in the area of the find. Salvaged fossils deemed to be significant shall be donated to an accredited repository with retrievable storage such as a museum. Costs for preparing the fossils for accessioning into the accredited repository and any associated curation fees shall be paid by the Project Applicant.

3.4.6 Level of Significance After Mitigation

Threshold GEO-4: Potential impacts related to paleontological resources with adherence to existing building code requirements would be **less than significant with implementation of MM GEO-1**.

3.4.7 Cumulative Effects

The geographic context for the cumulative analysis is the greater Los Angeles Basin, which even though it has wide-ranging geologic conditions, there is a general risk of seismic hazards due to the regional seismic activity and presence of numerous Holocene-active faults. Potential cumulative impacts related to geology and soils would result if cumulative projects would combine to create or exacerbate geologic hazards, including seismicity, erosion/loss of topsoil, or unstable geologic conditions. However, the majority of geologic hazards, including liquefaction, ground shaking, landslides, and unstable soils, tend to be site-specific with conditions changing, sometimes substantially, over relatively short distances and are therefore generally reduced to the extent practicable on a project-by-project basis through adherence to building code requirements. Each cumulative project identified in Table 3-1 would be required to adhere to the same required building engineering design standards as the proposed Project, per the most recent version of the CBC, to ensure the safety of building occupants and thus avoiding a cumulative geologic hazard. Additionally, as needed, cumulative projects would incorporate individual mitigation or geotechnical measures that are appropriate for site-specific conditions present on each individual cumulative project site. Therefore, since geologic hazards tend to be site-specific and do not combine to become cumulatively considerable, but all cumulative projects would adhere to current building code requirements, the proposed Project would not combine with other cumulative projects. As such, the proposed Project would not contribute to a significant cumulative impact associated with geology and soils and the impact would be **less than significant**.

3.4.8 References

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3.5 Greenhouse Gas Emissions

This section describes the existing greenhouse gas (GHG) conditions of the 1450 Artesia Specific Plan Project (Project) site and vicinity, identifies associated regulatory requirements, evaluates potential impacts, and identifies mitigation measures related to implementation of the proposed Project. Information contained in this section is based on California Emissions Estimator Model (CalEEMod), Version 2022.1, to estimate the Project's GHG emissions from both construction and operations and existing land use operation. For the relevant data, refer to the following appendix:

- Appendix F, Greenhouse Emissions Assessment, dated June 2024

3.5.1 Existing Conditions

Greenhouse Gases and Climate Change

Certain gases in the earth's atmosphere, classified as greenhouse gases (GHGs), play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space. A portion of the radiation is absorbed by the earth's surface and a smaller portion of this radiation is reflected back toward space. This absorbed radiation is then emitted from the earth as low-frequency infrared radiation. The frequencies at which bodies emit radiation are proportional to temperature. Because the earth has a much lower temperature than the sun, it emits lower-frequency radiation. Most solar radiation passes through GHGs; however, infrared radiation is absorbed by these gases. As a result, radiation that otherwise would have escaped back into space is instead "trapped," resulting in a warming of the atmosphere. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate on earth.

The primary GHGs contributing to the greenhouse effect are carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O). Fluorinated gases also make up a small fraction of the GHGs that contribute to climate change. Examples of fluorinated gases include chlorofluorocarbons (CFCs), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (NF_3); however, it is noted that these gases are not associated with typical land use development. Human-caused emissions of GHGs exceeding natural ambient concentrations are believed to be responsible for intensifying the greenhouse effect and leading to a trend of unnatural warming of the earth's climate, known as global climate change or global warming.

GHGs are global pollutants, unlike criteria air pollutants and toxic air contaminants (TACs), which are pollutants of regional and local concern. Whereas pollutants with localized air quality effects have relatively short atmospheric lifetimes (about 1 day), GHGs have long atmospheric lifetimes (one to several thousand years). GHGs persist in the atmosphere for long enough time periods to be dispersed around the globe. Although the exact lifetime of a GHG molecule is dependent on multiple variables and cannot be pinpointed, more CO_2 is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, or other forms of carbon sequestration. Of the total annual human-caused CO_2 emissions, approximately 55% is sequestered through ocean and land uptakes every year, averaged over the last 50 years, whereas the remaining 45% of human-caused CO_2 emissions remains stored in the atmosphere (IPCC 2013). Table 3.5-1 describes the primary GHGs attributed to global climate change, including their physical properties.

Table 3.5-1. Description of Greenhouse Gases

Greenhouse Gas	Description
Carbon Dioxide (CO_2)	CO_2 is a colorless, odorless gas that is emitted naturally and through human activities. Natural sources include decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources are from burning coal, oil, natural gas, and wood. The largest source of CO_2 emissions globally is the combustion of fossil fuels such as coal, oil, and gas in power plants, automobiles, and industrial facilities. The atmospheric lifetime of CO_2 is variable because it is readily exchanged in the atmosphere. CO_2 is the most widely emitted GHG and is the reference gas (Global Warming Potential of 1) for determining Global Warming Potentials for other GHGs.
Nitrous Oxide (N_2O)	N_2O is largely attributable to agricultural practices and soil management. Primary human-related sources of N_2O include agricultural soil management, sewage treatment, combustion of fossil fuels, and adipic and nitric acid production. N_2O is produced from biological sources in soil and water, particularly microbial action in wet tropical forests. The atmospheric lifetime of N_2O is approximately 120 years. The Global Warming Potential of N_2O is 298.
Methane (CH_4)	CH_4, a highly potent GHG, primarily results from off-gassing (the release of chemicals from nonmetallic substances under ambient or greater pressure conditions) and is largely associated with agricultural practices and landfills. Methane is the major component of natural gas, about 87% by volume. Human-related sources include fossil fuel production, animal husbandry, rice cultivation, biomass burning, and waste management. Natural sources of CH_4 include wetlands, gas hydrates, termites, oceans, freshwater bodies, non-wetland soils, and wildfires. The atmospheric lifetime of CH_4 is about 12 years and the Global Warming Potential is 25.
Hydrofluorocarbons (HFCs)	HFCs are typically used as refrigerants for both stationary refrigeration and mobile air conditioning. The use of HFCs for cooling and foam blowing is increasing, as the continued phase out of CFCs and HCFCs gains momentum. The 100-year Global Warming Potential of HFCs range from 124 for HFC-152 to 14,800 for HFC-23.
Perfluorocarbons (PFCs)	PFCs have stable molecular structures and only break down by ultraviolet rays about 60 kilometers above the earth's surface. Because of this, they have long lifetimes, between 10,000 and 50,000 years. Two main sources of PFCs are primary aluminum

Table 3.5-1. Description of Greenhouse Gases

Greenhouse Gas	Description
	production and semiconductor manufacturing. Global Warming Potentials range from 6,500 to 9,200.
Chlorofluorocarbons (CFCs)	CFCs are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. They are nontoxic, nonflammable, insoluble, and chemically unreactive in the troposphere (the level of air at the earth's surface). CFCs were synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. The Montreal Protocol on Substances that Deplete the Ozone Layer prohibited their production in 1987. Global Warming Potentials for CFCs range from 3,800 to 14,400.
Sulfur Hexafluoride (SF_6)	SF_6 is an inorganic, odorless, colorless, and nontoxic, nonflammable gas. It has a lifetime of 3,200 years. This gas is manmade and used for insulation in electric power transmission equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas. The Global Warming Potential of SF_6 is 23,900.
Hydrochlorofluorocarbons (HCFCs)	HCFCs are solvents, similar in use and chemical composition to CFCs. The main uses of HCFCs are for refrigerant products and air conditioning systems. As part of the Montreal Protocol, HCFCs are subject to a consumption cap and gradual phase out. The United States is scheduled to achieve a 100% reduction to the cap by 2030. The 100-year Global Warming Potentials of HCFCs range from 90 for HCFC-123 to 1,800 for HCFC-142b.
Nitrogen Trifluoride (NF_3)	NF_3 was added to Health and Safety Code Section 38505(g)(7) as a GHG of concern. This gas is used in electronics manufacture for semiconductors and liquid crystal displays. It has a high global warming potential of 17,200.
Black Carbon	Black carbon is a component of fine particulate matter, which has been identified as a leading environmental risk factor for premature death. It is produced from the incomplete combustion of fossil fuels and biomass burning, particularly from older diesel engines and forest fires. Black carbon warms the atmosphere by absorbing solar radiation, influences cloud formation, and darkens the surface of snow and ice, which accelerates heat absorption and melting. Black carbon is a short-lived species that varies spatially, which makes it difficult to quantify the global warming potential. Diesel particulate matter emissions are a major source of black carbon and are TACs that have been regulated and controlled in California for several decades to protect public health.

Table 3.5-1. Description of Greenhouse Gases

Greenhouse Gas	Description
Water Vapor	The primary source of water vapor is evaporation from the ocean, with additional vapor generated by sublimation (change from solid to gas) from ice and snow, evaporation from other water bodies, and transpiration from plant leaves. Water vapor is the most important, abundant, and variable GHG in the atmosphere and maintains a climate necessary for life.
Ozone	Tropospheric O_3, which is created by photochemical reactions involving gases from both natural sources and human activities, acts as a GHG. Stratospheric O_3, which is created by the interaction between solar ultraviolet radiation and molecular oxygen (O_2), plays a decisive role in the stratospheric radiative balance. Depletion of stratospheric O_3, due to chemical reactions that may be enhanced by climate change, results in an increased ground-level flux of ultraviolet-B radiation.
Aerosols	Aerosols are suspensions of particulate matter in a gas emitted into the air through burning biomass (plant material) and fossil fuels. Aerosols can warm the atmosphere by absorbing and emitting heat and can cool the atmosphere by reflecting light.

Sources: IPCC 2007; EPA 2010, 2018.

Global Warming Potential

Gases in the atmosphere can contribute to climate change both directly and indirectly. Direct effects occur when the gas itself absorbs radiation. Indirect radiative forcing occurs when chemical transformations of the substance produce other GHGs, when a gas influences the atmospheric lifetimes of other gases, and/or when a gas affects atmospheric processes that alter the radiative balance of the earth (e.g., affect cloud formation or albedo) (EPA 2017). The Intergovernmental Panel on Climate Change (IPCC) developed the global warming potential (GWP) concept to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP of a GHG is defined as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram of a trace substance relative to that of 1 kilogram of a reference gas (IPCC 2014). The reference gas used is CO_2; therefore, GWP-weighted emissions are measured in metric tons of CO_2 equivalent (MT CO_2e).

The current version of the California Emissions Estimator Model (CalEEMod) (Version 2022.1) assumes that the GWP for CH_4 is 25 (so emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2), and the GWP for N_2O is 298, based on the IPCC's Fourth Assessment Report (IPCC 2007).

Greenhouse Gas Inventories

Global Inventory

Anthropogenic GHG emissions worldwide in 2020 (the most recent year for which data is available) totaled approximately 49,800 million metric tons (MMT) of CO_2e, excluding land use change and forestry (PBL 2022). The top six GHG emitters include China, the United States, the Russian Federation, India, Japan, and the European Union, which accounted for approximately 60% of the total global emissions, or approximately 30,270 MMT CO_2e (PBL 2022). Table 3.5-2 presents the top GHG-emissions-producing countries.

Table 3.5-2. Six Top GHG Producer Countries

Emitting Countries	2020 GHG Emissions (MMT CO_2e)[a]
China	14,300
United States	5,640
European Union	3,440
India	3,520
Russian Federation	2,210
Japan	1,160
Total	**30,270**

Source: PBL 2022.
Notes: GHG = greenhouse gas; MMT CO_2e = million metric tons of carbon dioxide equivalent.
[a] Column may not add due to rounding.

National Inventory

Per the EPA's Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990–2021, total United States GHG emissions were approximately 6,340.2 million MT CO_2e (MMT CO_2e) in 2021 (EPA 2023). Total U.S. emissions have decreased by 2.3% from 1990 to 2021, down from a high of 15.8% above 1990 levels in 2007. Emissions increased from 2020 to 2021 by 5.2% (314.3 MMT CO_2e). Net emissions (i.e., including sinks) were 5,586.0 MMT CO_2e in 2021. Overall, net emissions increased 6.4% from 2020 to 2021 and decreased 16.6% from 2005 levels Between 2020 and 2021, the increase in total GHG emissions was driven largely by an increase in CO_2 emissions from fossil fuel combustion due to economic activity rebounding after the height of the COVID-19 pandemic. The CO_2 emissions from fossil fuel combustion increased by 6.8% from 2020 to 2021, including a 11.4% increase in transportation sector emissions and a 7.0% increase in electric power sector emissions. The increase in electric power sector emissions was due in part to an increase in electricity demand of 2.4% since 2020. Overall, there has been a decrease in electric power sector emissions from 1990 through 2021, which reflects the combined impacts of long-term trends in many factors, including population, economic growth, energy markets, technological changes including energy efficiency, and the carbon intensity of energy fuel choices (EPA 2023).

State Inventory

According to California's 2000–2020 GHG emissions inventory, California emitted approximately 369.2 MMT CO_2e in 2020, including emissions resulting from out-of-state electrical generation (CARB 2022a). The sources of GHG emissions in California include transportation, industry, electric power production from both in-state and out-of-state sources, residential and commercial activities, agriculture, high-GWP substances, and recycling and waste. Table 3.5-3 presents California GHG emission source categories and their relative contributions to the emissions inventory in 2020.

Table 3.5-3. GHG Emissions Sources in California

Source Category	Annual GHG Emissions (MMT CO_2e)	Percent of Total*
Transportation	136.60	37
Industrial uses	73.84	20
Electricity generation[a]	59.07	16
Residential and commercial uses	36.92	10
Agriculture and Forestry	33.22	9
High GWP substances	22.15	6
Recycling and waste	7.38	2
Totals	**369.2**	**100**

Source: CARB 2022a.
Notes: GHG = greenhouse gas; GWP = global warming potential; MMT CO_2e = million metric tons of carbon dioxide equivalent.
Emissions reflect 2020 California GHG inventory.
Totals may not sum due to rounding.
[a] Includes emissions associated with imported electricity, which account for 18.46 MMT CO_2e.

Per capita GHG emissions in California have dropped from a 2001 peak of 13.8 MT per person to 9.3 MT per person in 2020, a 33% decrease. In 2016, statewide GHG emissions dropped below the 2020 GHG limit of 431 MMT CO2e and have remained below that level since that time (CARB 2022a).

Potential Effects of Climate Change

Globally, climate change has the potential to affect numerous environmental resources through uncertain impacts related to future air temperatures and precipitation patterns. The 2014 IPCC Synthesis Report (IPCC 2014) indicated that warming of the climate system is unequivocal, and since the 1950s, many of the observed changes are unprecedented over decades to millennia. Signs that global climate change has occurred include warming of the atmosphere and ocean, diminished amounts of snow and ice, rising sea levels, and ocean acidification (IPCC 2014).

In California, climate change impacts have the potential to affect sea-level rise, agriculture, snowpack and water supply, forestry, wildfire risk, public health, frequency of severe weather events, and electricity demand and supply. The primary effect of global climate change has been a rise in average global tropospheric temperature. Reflecting the long-term warming trend since pre-industrial times,

observed global mean surface temperature for the decade 2006–2015 was 0.87°C (likely between 0.75°C and 0.99°C) higher than the average over the 1850–1900 period (IPCC 2018). Scientific modeling predicts that continued emissions of GHGs at or above current rates would induce more extreme climate changes during the twenty-first century than were observed during the twentieth century. Human activities are estimated to have caused approximately 1.0°C (1.8°F) of global warming above pre-industrial levels, with a likely range of 0.8°C to 1.2°C (1.4°F to 2.2°F) (IPCC 2018). Global warming is likely to reach 1.5°C (2.7°F) between 2030 and 2052 if it continues to increase at the current rate (IPCC 2018).

Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. A scientific consensus confirms that climate change is already affecting California. The Office of Environmental Health Hazard Assessment identified various indicators of climate change in California, which are scientifically based measurements that track trends in various aspects of climate change. Many indicators reveal discernible evidence that climate change is occurring in California and is having significant, measurable impacts in the state. Changes in the state's climate have been observed including an increase in annual average air temperature with record warmth from 2012 to 2016, more frequent extreme heat events, more extreme drought, a decline in winter chill, an increase in cooling degree days and a decrease in heating degree days, and an increase in variability of statewide precipitation (OEHHA 2018).

Warming temperatures and changing precipitation patterns have altered California's physical systems—the ocean, lakes, rivers and snowpack—upon which the state depends. Winter snowpack and spring snowmelt runoff from the Sierra Nevada and southern Cascade Mountains provide approximately one-third of the state's annual water supply. Impacts of climate on physical systems have been observed such as high variability of snow-water content (i.e., amount of water stored in snowpack), decrease in spring snowmelt runoff, glacier change (loss in area), rise in sea levels, increase in average lake water temperature and coastal ocean temperature, and a decrease in dissolved oxygen in coastal waters (OEHHA 2018).

Impacts of climate change on biological systems, including humans, wildlife, and vegetation, have also been observed including climate change impacts on terrestrial, marine, and freshwater ecosystems. As with global observations, species responses include those consistent with warming: elevational or latitudinal shifts in range, changes in the timing of key plant and animal life cycle events, and changes in the abundance of species and in community composition. Humans are better able to adapt to a changing climate than plants and animals in natural ecosystems. Nevertheless, climate change poses a threat to public health as warming temperatures and changes in precipitation can affect vector-borne pathogen transmission and disease patterns in California as well as the variability of heat-related deaths and illnesses. In addition, since 1950, the area burned by wildfires each year has been increasing.

The California Natural Resources Agency (CNRA) has released four California Climate Change Assessments (2006, 2009, 2012, and 2018), which have addressed the following: acceleration of warming across the state, more intense and frequent heat waves, greater riverine flows, accelerating sea level rise, more intense and frequent drought, more severe and frequent wildfires, more severe storms and extreme weather events, shrinking snowpack and less overall precipitation, and ocean acidification, hypoxia, and warming. To address local and regional governments' need for information to support action in their communities, the Fourth Assessment (CNRA 2018) includes reports for nine

regions of the state, including the Los Angeles Region, which includes western Riverside County, where the Project is located. Key projected climate changes for the Los Angeles Region include the following (CNRA 2018):

- Continued future warming over the Los Angeles region. Across the region, average maximum temperatures are projected to increase around 4°F to 5°F by the mid-century, and 5°F to 8°F by the late-century.
- Extreme temperatures are also expected to increase. The hottest day of the year may be up to 10°F warmer for many locations across the Los Angeles region by the late century under certain model scenarios. The number of extremely hot days is also expected to increase across the region.
- Despite small changes in average precipitation, dry and wet extremes are both expected to increase. By the late twenty-first century, the wettest day of the year is expected to increase across most of the Los Angeles region, with some locations experiencing 25% to 30% increases under certain model scenarios. Increased frequency and severity of atmospheric river events are also projected to occur for this region.
- Sea levels are projected to continue to rise in the future, but there is a large range based on emissions scenario and uncertainty in feedbacks in the climate system. Roughly 1 to 2 feet of sea level rise is projected by the mid-century, and the most extreme projections lead to 8 to 10 feet of sea level rise by the end of the century.
- Projections indicate that wildfire may increase over southern California, but there remains uncertainty in quantifying future changes of burned area over the Los Angeles region.

3.5.2 Relevant Plans, Policies, and Ordinances

Federal

To date, national standards have not been established for nationwide GHG reduction targets, nor have any regulations or legislation been enacted specifically to address climate change and GHG emissions reduction at the project level. Various efforts have been promulgated at the federal level to improve fuel economy and energy efficiency to address climate change and its associated effects.

Energy Independence and Security Act of 2007

The Energy Independence and Security Act of 2007 (December 2007), among other key measures, requires the following, which would aid in the reduction of national GHG emissions:

- Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020 and direct the National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
- Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy efficiency

labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

U.S. Environmental Protection Agency Endangerment Finding

The U.S. Environmental Protection Agency (EPA) authority to regulate GHG emissions stems from the U.S. Supreme Court decision in *Massachusetts v. EPA* (2007). The Supreme Court ruled that GHGs meet the definition of air pollutants under the existing Federal Clean Air Act (FCAA) and must be regulated if these gases could be reasonably anticipated to endanger public health or welfare. Responding to the Court's ruling, the EPA finalized an endangerment finding in December 2009. Based on scientific evidence it found that six GHGs (CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6) constitute a threat to public health and welfare. Thus, it is the Supreme Court's interpretation of the existing FCAA and the EPA's assessment of the scientific evidence that form the basis for the EPA's regulatory actions.

Federal Vehicle Standards

In response to the U.S. Supreme Court ruling discussed above, Executive Order 13432 was issued in 2007 directing the EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011, and in 2010, the EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012–2016.

In 2010, an Executive Memorandum was issued directing the Department of Transportation, Department of Energy, EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017–2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO_2 in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017–2021, and NHTSA intends to set standards for model years 2022–2025 in a future rulemaking. On January 12, 2017, the EPA finalized its decision to maintain the current GHG emissions standards for model years 2022–2025 cars and light trucks. It should be noted that the U.S. Environmental Protection Agency (EPA) in 2019 proposed to freeze the vehicle fuel efficiency standards at their planned 2020 level (37 mpg), canceling any future strengthening (currently 54.5 mpg by 2026). However, this proposal was scrapped in December 2021, and the current finalized rule calls for vehicles in model years 2023-2026 to reduce their greenhouse gas emissions between 5% and 10% each year. This means that by 2026, cars will be required to achieve 40 miles per gallon.

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014–2018. The standards for CO_2 emissions and fuel consumption are tailored to three main vehicle categories: combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6% to 23% over the 2010 baselines.

In August 2016, the EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 through 2027 for semi-trucks, large pickup trucks, vans, and all types and sizes of buses and work trucks. The final standards are expected to lower CO_2 emissions by approximately 1.1 billion metric tons and reduce oil consumption by up to 2 billion barrels over the lifetime of the vehicles sold under the program (EPA and NHTSA 2016).

On September 27, 2019, EPA and NHTSA published the "Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule Part One: One National Program." (84 Fed. Reg. 51,310 (Sept. 27, 2019) (EPA and NHTSA 2019). The SAFE Rule (Part One) revoked California's authority to set its own GHG emissions standards and set zero-emission vehicle mandates in California. On March 31, 2020, EPA and NHTSA finalized rulemaking for SAFE Part Two sets CO_2 emissions standards and corporate average fuel economy (CAFE) standards for passenger vehicles and light duty trucks, covering model years 2021–2026. The current EPA administration repealed SAFE Rule Part One, effective January 28, 2022 and is reconsidering Part Two.

In December 2021, EPA finalized federal GHG emissions standards for passenger cars and light trucks for Model Years 2023 through 2026. These standards are the strongest vehicle emissions standards ever established for the light-duty vehicle sector and are based on sound science and grounded in a rigorous assessment of current and future technologies. The updated standards will result in avoiding more than three billion tons of GHG emissions through 2050 (EPA 2021).

Clean Power Plan and New Source Performance Standards for Electric Generating Units

On October 23, 2015, the EPA published a final rule (effective December 22, 2015) establishing the carbon pollution emission guidelines for existing stationary sources: electric utility generating units (80 Federal Register [FR] 64510–64660), also known as the Clean Power Plan (CPP). These guidelines prescribe how states must develop plans to reduce GHG emissions from existing fossil-fuel-fired electric generating units. The guidelines establish CO_2 emission performance rates representing the best system of emission reduction for two subcategories of existing fossil-fuel-fired electric generating units: one fossil-fuel-fired electric utility steam-generating unit and two stationary combustion turbines. Concurrently, the EPA published a final rule (effective October 23, 2015) establishing standards of performance for GHG emissions from new, modified, and reconstructed stationary sources: electric utility generating units (80 FR 64661–65120). The rule prescribes CO_2 emission standards for newly constructed, modified, and reconstructed affected fossil-fuel-fired electric utility generating units. The U.S. Supreme Court stayed implementation of the CPP pending resolution of several lawsuits. Additionally, in March 2017, the federal government directed the EPA Administrator to review the CPP to determine whether it is consistent with current executive policies concerning GHG emissions, climate change, and energy. On January 13, 2021 EPA finalized its revised NSPS for new power plants that abandoned the earlier proposal of increasing the limits on CO_2 emissions. However, the final rule contains a new restriction that Section 111 can only be used to regulate greenhouse gases from stationary sources if the source category is responsible for at least 3% of U.S. greenhouse gas emissions. Other sectors that are currently regulated under the Clean Air Act (such as oil and gas facilities) could be affected, and the rule could bind the EPA from issuing future GHG emissions on new stationary sources.

On May 11, 2023, EPA proposed new GHG emission limits and guidelines for new and existing fossil fuel-fired power plants. This proposal covers new and existing coal and natural gas-fired power plants. The EPA focuses the proposed new limits and guidelines on baseload plants that plan to operate far into the future to ensure they control GHG emissions and is proposing performance standards based on carbon capture and sequestration (CCS) technologies, and for natural gas plants. The EPA also includes a performance standard for using low-GHG hydrogen. EPA proposes emission standards based on technologies that companies are already pursuing, which now have lower costs due to Congressional investments through the Inflation Reduction Act.

The Inflation Reduction Act of 2022

The Inflation Reduction Act was signed into law by President Biden in August 2022. The bill includes specific investment in energy and climate reform and is projected to reduce GHG emissions within the United States by 40% as compared to 2005 levels by 2030. The bill allocates funds to boost renewable energy infrastructure (e.g., solar panels and wind turbines), includes tax credits for the purchase of electric vehicles, and includes measures that will make homes more energy efficient.

State

California Air Resources Board

The California Air Resources Board (CARB) is responsible for coordination and oversight of state and local air pollution control programs. Various statewide and local initiatives to reduce California's contribution to GHG emissions have raised awareness about climate change and its potential for severe long-term adverse environmental, social, and economic effects. California is a significant emitter of CO_2 equivalents (CO_2e) in the world and produced 459 gross million metric tons of carbon dioxide equivalent ($MMTCO_2e$) in 2013. The transportation sector is the state's largest emitter of GHGs, followed by industrial operations such as manufacturing and oil and gas extraction.

The state legislature has enacted a series of bills that constitute the most aggressive program to reduce GHGs of any state in the nation. Some legislation, such as the landmark Assembly Bill (AB) 32, California Global Warming Solutions Act of 2006, was specifically enacted to address GHG emissions. Other legislation, such as Title 24 building efficiency standards and Title 20 appliance energy standards, were originally adopted for other purposes such as energy and water conservation, but also provide GHG reductions. This section describes the legislation's major provisions.

Assembly Bill 32 (California Global Warming Solutions Act of 2006)

AB 32 instructs the CARB to develop and enforce regulations for reporting and verifying statewide GHG emissions. AB 32 also directed CARB to set a GHG emissions limit based on 1990 levels, to be achieved by 2020. It set a timeline for adopting a scoping plan for achieving GHG reductions in a technologically and economically feasible manner.

CARB Scoping Plan

CARB adopted the Scoping Plan to achieve AB 32 goals. The Scoping Plan establishes an overall framework for the measures that would be adopted to reduce California's GHG emissions. CARB

determined that achieving the 1990 emissions level would require a reduction of GHG emissions of approximately 29% below what would otherwise occur in 2020 in the absence of new laws and regulations (referred to as "business-as-usual").[1] The Scoping Plan evaluates opportunities for sector-specific reductions, integrates early actions and additional GHG reduction measures by both CARB and the state's Climate Action Team, identifies additional measures to be pursued as regulations, and outlines the adopted role of a cap-and-trade program.[2] Additional development of these measures and adoption of the appropriate regulations occurred through the end of 2013. Key Scoping Plan elements include:

- Expanding and strengthening existing energy efficiency programs, as well as building and appliance standards.
- Achieving a statewide renewables energy mix of 33% by 2020.
- Developing a California cap-and-trade program that links with other programs to create a regional market system and caps sources contributing 85% of California's GHG emissions (adopted in 2011).
- Establishing targets for transportation-related GHG emissions for regions throughout California and pursuing policies and incentives to achieve those targets (several sustainable community strategies have been adopted).
- Adopting and implementing measures pursuant to existing state laws and policies, including California's clean car standards, heavy-duty truck measures, the Low Carbon Fuel Standard (amendments to the Pavley Standard adopted 2009; Advanced Clean Car standard adopted 2012), goods movement measures, and the Low Carbon Fuel Standard (adopted 2009).
- Creating targeted fees, including a public goods charge on water use, fees on gasses with high global warming potential, and a fee to fund the administrative costs of the State of California's long-term commitment to AB 32 implementation.
- The California Sustainable Freight Action Plan was developed in 2016 and provides a vision for California's transition to a more efficient, more economically competitive, and less polluting freight transport system. This transition of California's freight transport system is essential to supporting the state's economic development in coming decades while reducing pollution.
- CARB's Mobile Source Strategy demonstrates how the state can simultaneously meet air quality standards, achieve GHG emission reduction targets, decrease health risk from

[1] CARB defines business-as-usual (BAU) in its Scoping Plan as emissions levels that would occur if California continued to grow and add new GHG emissions but did not adopt any measures to reduce emissions. Projections for each emission-generating sector were compiled and used to estimate emissions for 2020 based on 2002–2004 emissions intensities. Under CARB's definition of BAU, new growth is assumed to have the same carbon intensities as was typical from 2002 through 2004.

[2] The Climate Action Team, led by the secretary of the California Environmental Protection Agency, is a group of state agency secretaries and heads of agencies, boards, and departments. Team members work to coordinate statewide efforts to implement global warming emissions reduction programs and the state's Climate Adaptation Strategy.

transportation emissions, and reduce petroleum consumption over the next 15 years. The mobile Source Strategy includes increasing ZEV buses and trucks.

In 2012, CARB released revised estimates of the expected 2020 emissions reductions. The revised analysis relied on emissions projections updated in light of current economic forecasts that accounted for the economic downturn since 2008, reduction measures already approved and put in place relating to future fuel and energy demand, and other factors. This update reduced the projected 2020 emissions from 596 $MMTCO_2e$ to 545 $MMTCO_2e$. The reduction in forecasted 2020 emissions means that the revised business-as-usual reduction necessary to achieve AB 32's goal of reaching 1990 levels by 2020 is now 21.7%, down from 29%. CARB also provided a lower 2020 inventory forecast that incorporated state-led GHG emissions reduction measures already in place. When this lower forecast is considered, the necessary reduction from business-as-usual needed to achieve the goals of AB 32 is approximately 16%.

CARB adopted the first major update to the Scoping Plan on May 22, 2014. This updated Scoping Plan summarized the most recent science related to climate change, including anticipated impacts to California and the levels of GHG emissions reductions necessary to likely avoid risking irreparable damage. It identifies the actions California has already taken to reduce GHG emissions and focuses on areas where further reductions could be achieved to help meet the 2020 target established by AB 32.

In 2016, the Legislature passed Senate Bill (SB) 32, which codifies a 2030 GHG emissions reduction target of 40% below 1990 levels. With SB 32, the Legislature passed companion legislation, AB 197, which provides additional direction for developing the Scoping Plan. On December 14, 2017, CARB adopted a second update to the Scoping Plan (CARB 2022b). The 2017 Scoping Plan details how the state will reduce GHG emissions to meet the 2030 target set by Executive Order B-30-15 and codified by SB 32. Other objectives listed in the 2017 Scoping plan are to provide direct GHG emissions reductions, support climate investment in disadvantaged communities, and support the Clean Power Plan and other federal actions.

Adopted December 15, 2022, CARB's 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) sets a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85% below 1990 levels by 2045 in accordance with AB 1279. To achieve the targets of AB 1279, the 2022 Scoping Plan relies on existing and emerging fossil fuel alternatives and clean technologies, as well as carbon capture and storage. Specifically, the 2022 Scoping Plan focuses on zero-emission transportation; phasing out use of fossil gas use for heating homes and buildings; reducing chemical and refrigerants with high GWP; providing communities with sustainable options for walking, biking, and public transit; displacement of fossil-fuel fired electrical generation through use of renewable energy alternatives (e.g., solar arrays and wind turbines); and scaling up new options such as green hydrogen. The 2022 Scoping Plan sets one of the most aggressive approaches to reach carbon neutrality in the world. Unlike the 2017 Scoping Plan, CARB no longer includes a numeric per capita threshold and instead advocates for compliance with a local GHG reduction strategy (i.e., Climate Action Plan) consistent with CEQA Guidelines Section 15183.5.

The key elements of the 2022 CARB Scoping Plan focus on transportation. Specifically, the 2022 Scoping Plan aims to rapidly move towards zero-emission transportation (i.e., electrifying cars, buses, trains, and trucks), which constitutes California's single largest source of GHGs. The regulations that impact the transportation sector are adopted and enforced by CARB on vehicle manufacturers and

are outside the jurisdiction and control of local governments. The 2022 Scoping Plan accelerates development of new regulations as well as amendments to strengthen regulations and programs already in place.

Included in the 2022 Scoping Plan is a set of Local Actions (2022 Scoping Plan Appendix D) aimed at providing local jurisdictions with tools to reduce GHGs and assist the state in meeting the ambitious targets set forth in the 2022 Scoping Plan. Appendix D to the 2022 Scoping Plan includes a section on evaluating plan-level and project-level alignment with the state's Climate Goals in CEQA GHG analyses. In this section, CARB identifies several recommendations and strategies that should be considered for new development in order to determine consistency with the 2022 Scoping Plan. Notably, this section is focused on Residential and Mixed-Use Projects. CARB specifically states that Appendix D does not address other land uses (e.g., industrial). However, CARB plans to explore new approaches for other land use types in the future.

As such, it would be inappropriate to apply the requirements contained in Appendix D of the 2022 Scoping Plan to any land use types other than residential or mixed-use residential development.

Senate Bill 32 and Assembly Bill 197

Enacted in 2016, SB 32 and AB 197 are companion bills. SB 32 codifies the 2030 GHG reduction target in Executive Order B-30-15 (40% below 1990 levels by 2030). The bill authorizes CARB to adopt an interim GHG emissions level target to be achieved by 2030. CARB also must adopt rules and regulations in an open public process to achieve the maximum, technologically feasible, and cost-effective GHG reductions. AB 197 established the Joint Legislative Committee on Climate Change Policies, consisting of at least three members of the Senate and three members of the Assembly, to provide ongoing oversight over implementation of the state's climate policies. AB 197 also added two members of the Legislature to the Board as nonvoting members; requires CARB to make available and update (at least annually via its website) emissions data for GHGs, criteria air pollutants, and toxic air contaminants from reporting facilities; and requires CARB to identify specific information for GHG emissions-reduction measures when updating the Scoping Plan.

SB 375 (The Sustainable Communities and Climate Protection Act of 2008)

Signed into law on September 30, 2008, SB 375 provides a process to coordinate land use planning, regional transportation plans, and funding priorities to help California meet AB 32's GHG reduction goals. SB 375 requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, aligns planning for transportation and housing, and creates specified incentives for the implementation of the strategies.

An SCS does not: (1) regulate the use of land; (2) supersede the land use authority of cities and counties; or (3) require that a city's or county's land use policies and regulations, including those in a general plan, be consistent with it (California Government Code Section 65080[b][2][K]). Nonetheless, SB 375 makes regional and local planning agencies responsible for developing those strategies as part of the federally required metropolitan transportation planning process and the state-mandated housing element process.

AB 1493 and Executive Order B-16-12 (Pavley Regulations and Fuel Efficiency Standards)

AB 1493, enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Implementation of the regulation was delayed by lawsuits filed by automakers and by the EPA's denial of an implementation waiver. The EPA subsequently granted the requested waiver in 2009, which was upheld by the by the U.S. District Court for the District of Columbia in 2011. The regulations establish one set of emission standards for passenger vehicle and light duty truck model years 2009–2016 and a second set of emissions standards for model years 2017 to 2025. By 2025, when all rules will be fully implemented, new passenger vehicles are anticipated to emit 34% fewer CO_2e emissions and 75% fewer smog-forming emissions. EO B-16-12 (March 2012) required that state entities under the governor's direction and control support and facilitate the rapid commercialization of ZEVs. On a statewide basis, EO B-16-12 identified a target reduction of GHG emissions from the transportation sector equaling 80% less than 1990 levels by 2050.

Executive Order S-1-07

EO S-1-07 (January 2007, implementing regulation adopted in April 2009) sets a declining Low Carbon Fuel Standard for GHG emissions measured in CO_2e grams per unit of fuel energy sold in California. The target of the Low Carbon Fuel Standard was to reduce the carbon intensity of California passenger vehicle fuels by at least 10% by 2020 (17 CCR 95480 et seq.). The carbon intensity measures the amount of GHG emissions in the lifecycle of a fuel—including extraction/feedstock production, processing, transportation, and final consumption—per unit of energy delivered.

SB 1368 (Emission Performance Standards)

SB 1368, which is AB 32's companion bill, directs the California Public Utilities Commission (CPUC) to adopt a performance standard for GHG emissions for the future power purchases of California utilities. SB 1368 limits carbon emissions associated with electrical energy consumed in California by forbidding procurement arrangements for energy longer than 5 years from resources that exceed the emissions of a relatively clean, combined cycle natural gas power plant. The new law effectively prevents California's utilities from investing in, otherwise financially supporting, or purchasing power from new coal plants located in or out of the state. The CPUC adopted the regulations required by SB 1368 on August 29, 2007. The regulations implementing SB 1368 establish a standard for baseload generation owned by, or under long-term contract to publicly owned utilities, for 1,100 pounds of CO_2 per megawatt-hour.

SB 1078, SB 107, and SBX1-2 (Renewable Electricity Standards)

SB 1078 requires California to generate 20% of its electricity from renewable energy by 2017. SB 107 (2006) changed the due date to 2010 instead of 2017. On November 17, 2008, then Governor Arnold Schwarzenegger signed Executive Order S-14-08, which established a Renewable Portfolio Standard target for California requiring that all retail sellers of electricity serve 33% of their load with renewable energy by 2020. Executive Order S-21-09 also directed CARB to adopt a regulation by July 31, 2010, requiring the state's load serving entities to meet a 33% renewable energy target by 2020. CARB approved the Renewable Electricity Standard on September 23, 2010, by Resolution 10-23. SBX1-2 codified the 33% by 2020 target.

SB 350 (Clean Energy and Pollution Reduction Act of 2015)

Signed into law on October 7, 2015, SB 350 implements Executive Order B-30-15's goals. The SB 350 objectives are to increase the procurement of electricity from renewable sources from 33% to 50% (with interim targets of 40% by 2024, and 25% by 2027) and to double the energy efficiency savings in electricity and natural gas end uses of retail customers through energy efficiency and conservation. SB 350 also reorganizes the Independent System Operator to develop more regional electricity transmission markets and improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States.

AB 398 (Market-Based Compliance Mechanisms)

Signed on July 25, 2017, AB 398 extended the duration of the Cap-and-Trade program from 2020 to 2030. AB 398 required CARB to update the Scoping Plan and for all GHG rules and regulations adopted by the state. It also designated CARB as the statewide regulatory body responsible for ensuring that California meets its statewide carbon pollution reduction targets, while retaining local air districts' responsibility and authority to curb toxic air contaminants and criteria pollutants from local sources that severely impact public health. AB 398 also decreased free carbon allowances over 40% by 2030 and prioritized Cap-and-Trade spending to various programs including reducing diesel emissions in impacted communities.

SB 150 (Regional Transportation Plans)

Signed on October 10, 2017, SB 150 aligns local and regional GHG reduction targets with state targets (i.e., 40% below 1990 levels by 2030). SB 150 creates a process to include communities in discussions on how to monitor their regions' progress on meeting these goals. The bill also requires the CARB to regularly report on that progress, as well as on the successes and the challenges regions experience associated with achieving their targets. SB 150 provides for accounting of climate change efforts and GHG reductions and identify effective reduction strategies.

SB 100 (California Renewables Portfolio Standard Program: Emissions of Greenhouse Gases)

Signed into law in September 2018, SB 100 increased California's renewable electricity portfolio from 50% to 60% by 2030. SB 100 also established a further goal to have an electric grid that is entirely powered by clean energy by 2045.

AB 1346 (Air Pollution: Small Off-Road Engines)

Signed into Law in October 2021, AB 1346 requires CARB, to adopt cost-effective and technologically feasible regulations to prohibit engine exhaust and evaporative emissions from new small off-road engines, consistent with federal law, by July 1, 2022. The bill requires CARB to identify and, to the extent feasible, make available funding for commercial rebates or similar incentive funding as part of any updates to existing applicable funding program guidelines to local air pollution control districts and air quality management districts to implement to support the transition to zero-emission small off-road equipment operations.

AB 1279 (The California Climate Crisis Act)

AB 1279 establishes the policy of the state to achieve carbon neutrality as soon as possible, but no later than 2045; to maintain net negative GHG emissions thereafter; and to ensure that by 2045 statewide anthropogenic GHG emissions are reduced at least 85% below 1990 levels. The bill requires CARB to ensure that Scoping Plan updates identify and recommend measures to achieve carbon neutrality, and to identify and implement policies and strategies that enable CO_2 removal solutions and carbon capture, utilization, and storage technologies.

Senate Bill 605 and Senate Bill 1383

SB 605 (2014) requires CARB to complete a comprehensive strategy to reduce emissions of SLCPs in the state (California Health and Safety Code Section 39730) and SB 1383 (2016) requires CARB to approve and implement that strategy by January 1, 2018 (California Public Resources Code Sections 42652–43654). SB 1383 also establishes specific targets for the reduction of SLCPs (40% below 2013 levels by 2030 for CH_4 and HFCs, and 50% below 2013 levels by 2030 for anthropogenic black carbon) and provides direction for reductions from dairy and livestock operations and landfills. Accordingly, and as mentioned above, CARB adopted its SLCP Reduction Strategy in March 2017 (CARB 2017). The SLCP Reduction Strategy establishes a framework for the statewide reduction of emissions of black carbon, methane, and fluorinated gases (CARB 2017).

Assembly Bill 1757

AB 1757 (September 2022) requires the CNRA to determine a range of targets for natural carbon sequestration, and for nature-based climate solutions that reduce GHG emissions for future years 2030, 2038, and 2045. These targets are to be determined by no later than January 1, 2024, and are established to support the state's goals to achieve carbon neutrality and foster climate adaptation and resilience.

SB 1020 (100% Clean Electric Grid)

Signed on September 16, 2022, SB 1020 provides additional goals for the path to the 2045 goal of 100% clean electricity retail sales. It creates a target of 90% clean electricity retail sales by 2035 and 95% clean electricity retail sales by 2040.

SB 905 (Carbon Sequestration Program)

Signed on September 16, 2022, SB 905 establishes regulatory framework and policies that involve carbon removal, carbon capture, utilization, and sequestration. It also prohibits the injecting of concentrated carbon dioxide fluid into a Class II injection well for the purpose of enhanced oil recovery.

Advanced Clean Cars Program and Zero-Emissions Vehicle Program

The Advanced Clean Cars (ACC) I program (January 2012) is an emissions-control program for model years 2015 through 2025. The program combines the control of smog- and soot-causing pollutants and GHG emissions into a single coordinated package of regulations: the Low-Emission Vehicle (LEV) regulation for criteria air pollutant and GHG emissions and a technology forcing regulation for ZEVs that contributes to both types of emission reductions (CARB 2023). The package includes elements

to reduce smog-forming pollution, reduce GHG emissions, promote clean cars, and provide the fuels for clean cars. To improve air quality, CARB has implemented new emission standards to reduce smog-forming emissions beginning with 2015 model year vehicles. It is estimated that in 2025 cars will emit 75% less smog-forming pollution than the average new car sold in 2015. The ZEV program will act as the focused technology of the ACC I program by requiring manufacturers to produce increasing numbers of ZEVs and plug-in hybrid EVs in the 2018 to 2025 model years.

The ACC II program, which was adopted in August 2022, established the next set of LEV and ZEV requirements for model years after 2025 to contribute to meeting federal ambient air quality ozone standards and California's carbon neutrality standards (CARB 2023). The main objectives of ACC II are as follows:

- Maximize criteria air pollutant and GHG emission reductions through increased stringency and real-world reductions
- Accelerate the transition to ZEVs through both increased stringency of requirements and associated actions to support wide-scale adoption and use

The ACC II rulemaking package also considers technological feasibility, environmental impacts, equity, economic impacts, and consumer impacts.

CARB Advanced Clean Truck Regulation

CARB adopted the Advanced Clean Truck Regulation in June 2020 requiring truck manufacturers to transition from diesel trucks and vans to electric zero-emission trucks beginning in 2024. By 2045, every new truck sold in California is required to be zero-emission. This rule directly addresses disproportionate risks and health and pollution burdens and puts California on the path for an all zero-emission short-haul drayage fleet in ports and railyards by 2035, and zero-emission "last-mile" delivery trucks and vans by 2040. The Advanced Clean Truck Regulation accelerates the transition of zero-emission medium-and heavy-duty vehicles from Class 2b to Class 8. The regulation has two components including a manufacturer sales requirement, and a reporting requirement:

- Zero-Emission Truck Sales: Manufacturers who certify Class 2b through 8 chassis or complete vehicles with combustion engines are required to sell zero-emission trucks as an increasing percentage of their annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales are required to be 55% of Class 2b – 3 truck sales, 75% of Class 4 – 8 straight truck sales, and 40% of truck tractor sales.
- Company and Fleet Reporting: Large employers including retailers, manufacturers, brokers and others would be required to report information about shipments and shuttle services. Fleet owners, with 50 or more trucks, would be required to report about their existing fleet operations. This information would help identify future strategies to ensure that fleets purchase available zero-emission trucks and place them in service where suitable to meet their needs.

Executive Orders Related to GHG Emissions

California's Executive Branch has taken several actions to reduce GHGs using executive orders. Although not regulatory, they set the tone for the state and guide the actions of state agencies.

Executive Order S-3-05

Executive Order S-3-05 was issued on June 1, 2005, which established the following GHG emissions reduction targets:

- By 2010, reduce GHG emissions to 2000 levels
- By 2020, reduce GHG emissions to 1990 levels
- By 2050, reduce GHG emissions to 80% below 1990 levels

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

Executive Order S-01-07

Issued on January 18, 2007, Executive Order S 01-07 mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10% by 2020. The executive order established a Low Carbon Fuel Standard (LCFS) and directed the Secretary for Environmental Protection to coordinate the actions of the California Energy Commission, CARB, the University of California, and other agencies to develop and propose protocols for measuring the "life-cycle carbon intensity" of transportation fuels. CARB adopted the LCFS on April 23, 2009.

Executive Order S-13-08

Issued on November 14, 2008, Executive Order S-13-08 facilitated the California Natural Resources Agency development of the 2009 California Climate Adaptation Strategy. Objectives include analyzing risks of climate change in California, identifying and exploring strategies to adapt to climate change, and specifying a direction for future research.

Executive Order S-14-08

Issued on November 17, 2008, Executive Order S-14-08 expands the state's Renewable Energy Standard to 33% renewable power by 2020. Additionally, Executive Order S-21-09 (signed on September 15, 2009) directs CARB to adopt regulations requiring 33% of electricity sold in the state come from renewable energy by 2020. CARB adopted the Renewable Electricity Standard on September 23, 2010, which requires 33% renewable energy by 2020 for most publicly owned electricity retailers.

Executive Order S-21-09

Issued on July 17, 2009, Executive Order S-21-09 directs CARB to adopt regulations to increase California's RPS to 33% by 2020. This builds upon SB 1078 (2002), which established the California RPS program, requiring 20% renewable energy by 2017, and SB 107 (2006), which advanced the 20% deadline to 2010, a goal which was expanded to 33% by 2020 in the 2005 Energy Action Plan II.

Executive Order B-18-12

EO B-18-12 (April 2012) directed state agencies, departments, and other entities under the Governor's executive authority to take action to reduce entity-wide GHG emissions by at least 10% by 2015 and 20% by 2020, as measured against a 2010 baseline. EO B-18-12 also identified goals for existing state buildings for reducing grid-based energy purchases and water use.

Executive Order B-30-15

Issued on April 29, 2015, Executive Order B-30-15 established a California GHG reduction target of 40% below 1990 levels by 2030 and directs CARB to update the Climate Change Scoping Plan to express the 2030 target in terms of MMT CO_2e. The 2030 target acts as an interim goal on the way to achieving reductions of 80% below 1990 levels by 2050, a goal set by Executive Order S-3-05. Executive Order B-30-15 also requires the state's climate adaptation plan to be updated every 3 years and for the state to continue its climate change research program, among other provisions. With the enactment of SB 32 in 2016, the legislature codified the goal of reducing GHG emissions to 40% below 1990 levels by 2030.

Executive Order B-55-18

Issued on September 10, 2018, Executive Order B-55-18 establishes a goal to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter. This goal is in addition to the existing statewide targets of reducing GHG emissions. The executive order requires CARB to work with relevant state agencies to develop a framework for implementing this goal. It also requires CARB to update the Scoping Plan to identify and recommend measures to achieve carbon neutrality. The executive order also requires state agencies to develop sequestration targets in the Natural and Working Lands Climate Change Implementation Plan.

Executive Order N-79-20

Issued on September 23, 2020, Executive Order N-79-20 established a goal to end the sales of new internal combustion engine vehicles in the state as soon as possible, and no later than 2035, and continue to phaseout fossil-fueled cars and trucks. By setting a course to end sales of internal combustion passenger vehicles by 2035, the Governor's Executive Order establishes a target for the transportation sector that helps put the state on a path to carbon neutrality by 2045. It is important to note that the Executive Order focuses on new vehicle sales for automakers and therefore does not require Californians to give up the existing cars and trucks they already own.

California Regulations and Building Codes

California has a long history of adopting regulations to improve energy efficiency in new and remodeled buildings. These regulations have kept California's energy consumption relatively flat even with rapid population growth.

Title 20 Appliance Efficiency Regulations

The appliance efficiency regulations (California Code of Regulations [CCR] Title 20, Sections 1601–1608) include standards for new appliances. Twenty-three categories of appliances are included in the scope of these regulations. These standards include minimum levels of operating efficiency, and other cost-effective measures, to promote the use of energy- and water-efficient appliances.

Title 24 Building Energy Efficiency Standards

California's Energy Efficiency Standards for Residential and Nonresidential Buildings (CCR Title 24, Part 6) was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases GHG emissions. On August 11, 2021, the CEC adopted the 2022 Energy Code. In December, it was approved by the California Building Standards Commission for inclusion into the California Building Standards Code. The 2022 Energy Code encourages efficient electric heat pumps, establishes electric-ready requirements for new homes, expands solar photovoltaic and battery storage standards, strengthens ventilation standards, and more. Buildings whose permit applications are applied for on or after January 1, 2023, must comply with the 2022 Energy Code.

Title 24 California Green Building Standards Code

The California Green Building Standards Code (CCR Title 24, Part 11 code) commonly referred to as the CALGreen Code, is a statewide mandatory construction code developed and adopted by the California Building Standards Commission and the Department of Housing and Community Development. The CALGreen standards require new residential and commercial buildings to comply with mandatory measures under the topics of planning and design, energy efficiency, water efficiency/conservation, material conservation and resource efficiency, and environmental quality. CALGreen also provides voluntary tiers and measures that local governments may adopt that encourage or require additional measures in the five green building topics. The most recent update to the CALGreen Code went into effect on January 1, 2023 (2022 CALGreen). The 2022 CALGreen standards continue to improve upon the existing standards for new construction of, and additions and alterations to, residential and nonresidential buildings.

Water

SB X7-7, or the Water Conservation Act of 2009, required that all water suppliers increase their water use efficiency with an overall goal of reducing per capita urban water use by 20% by December 31, 2020. Each urban water supplier was required to develop water use targets to meet this goal.

Solid Waste

AB 1826 (Chapter 727, Statutes of 2014, effective 2016) requires businesses to recycle their organic waste (i.e., food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) depending on the amount of waste they generate per week. The minimum threshold of organic waste generation by businesses decreases

over time, which means an increasingly greater proportion of the commercial sector will be required to comply.

SB 1383 (2016) requires a 50% reduction in organic waste disposal from 2014 levels by 2020 and a 75% reduction by 2025—essentially requiring the diversion of up to 27 million tons of organic waste—to reduce GHG emissions. SB 1383 also requires that not less than 20% of edible food that is currently disposed be recovered for human consumption by 2025.

Other State Actions

Senate Bill 97

SB 97 (2007) directed the Governor's Office of Planning and Research and CNRA to develop guidelines under CEQA for the mitigation of GHG emissions. CNRA adopted the CEQA Guidelines amendments in December 2009, which became effective in March 2010.

Under the amended CEQA Guidelines, a lead agency has the discretion to determine whether to use a quantitative or qualitative analysis or apply performance standards to determine the significance of GHG emissions resulting from a particular project (14 CCR 15064.4[a]). The CEQA Guidelines require a lead agency to consider the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]). The CEQA Guidelines also allow a lead agency to consider feasible means of mitigating the significant effects of GHG emissions, including reductions in emissions through the implementation of project features or off-site measures (14 CCR 15126.4[c]). The adopted amendments do not establish a GHG emission threshold, instead allowing a lead agency to develop, adopt, and apply its own thresholds of significance or those developed by other agencies or experts. CNRA also acknowledged that a lead agency could consider compliance with regulations or requirements implementing AB 32 in determining the significance of a project's GHG emissions (CNRA 2009).

With respect to GHG emissions, CEQA Guidelines Section 15064.4(a), as subsequently amended in 2018, states that lead agencies "shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions. The CEQA Guidelines now note that an agency "shall have discretion to determine, in the context of a particular project, whether to: (1) Quantify greenhouse gas emissions resulting from a project; and/or (2) Rely on a qualitative analysis or performance based standards" (14 CCR 15064.4[a]). Section 15064.4(b) states that the lead agency should consider the following when assessing the significance of impacts from GHG emissions on the environment: (1) the extent to which a project may increase or reduce GHG emissions as compared to the existing environmental setting; (2) whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project; and (3) the extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions (14 CCR 15064.4[b]).

Regional

South Coast Air Quality Management District

Air districts typically act in an advisory capacity to local governments in establishing the framework for environmental review of air pollution impacts under CEQA. This may include recommendations regarding significance thresholds, analytical tools to estimate emissions and assess impacts, and mitigations for potentially significant impacts. Although air districts will also address some of these issues on a project-specific basis as responsible agencies, they may provide general guidance to local governments on these issues (SCAQMD 2008). As discussed in Section 3.5.3, Thresholds of Significance, the South Coast Air Quality Management District (SCAQMD) has recommended numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential, commercial, industrial, and mixed-use development projects; however, these thresholds were not adopted.

Southern California Association of Governments

On September 3, 2020, the Southern California Association of Governments (SCAG) Regional Council adopted Connect SoCal (2020–2045 Regional Transportation Plan/Sustainable Communities Strategy [2020 RTP/SCS]). The RTP/SCS charts a course for closely integrating land use and transportation so that the region can grow smartly and sustainably. The strategy was prepared through a collaborative, continuous, and comprehensive process with input from local governments, county transportation commissions, tribal governments, non-profit organizations, businesses and local stakeholders within the counties of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura. SCAG's RTP/SCS establishes GHG emissions goals for automobiles and light-duty trucks for 2020 and 2035 as well as an overall GHG target for the Project region consistent with both the target date of AB 32 and the post-2020 GHG reduction goals of Executive Orders 5-03-05 and B-30-15. The RTP/SCS is a long-range vision plan that balances future mobility and housing needs with economic, environmental, and public health goals.

The RTP/SCS contains over 4,000 transportation projects, ranging from highway improvements, railroad grade separations, bicycle lanes, new transit hubs and replacement bridges. These future investments were included in county plans developed by the six county transportation commissions and seek to reduce traffic bottlenecks, improve the efficiency of the region's network, and expand mobility choices for everyone. The RTP/SCS is an important planning document for the region, allowing project sponsors to qualify for federal funding.

The plan accounts for operations and maintenance costs to ensure reliability, longevity, and cost effectiveness. The RTP/SCS is also supported by a combination of transportation and land use strategies that help the region achieve state GHG emissions reduction goals and Federal Clean Air Act (FCAA) requirements, preserve open space areas, improve public health and roadway safety, support our vital goods movement industry, and utilize resources more efficiently.

Local

The City of Gardena General Plan Land Use Plan, Circulation Plan, and Environmental Justice Element identify the following air quality goals and policies that apply to the Project (City of Gardena 2021):

CI Goal 1**:** Promote a safe and efficient circulation system that benefits residents and businesses, and integrates with the greater Los Angeles/South Bay transportation system**.**

Policy 1.1: Prioritize long - term sustainability for the City of Gardena, in alignment with regional and State goals, by promoting infill development, reduced reliance on single - occupancy vehicle trips, and improved multi - modal transportation networks, with the goal of reducing air pollution and greenhouse gas emissions, thereby improving the health and quality of life for residents.

Policy 1.2: Minimize truck traffic through Gardena and minimize adverse impacts by regulating off - street truck parking, intrusions into neighborhoods, and noise levels.

CI Goal 3**:** Develop Complete Streets to promote alternative modes of transportation that are safe and efficient for commuters, and available to persons of all income levels and disabilities.

Policy 3.4: Maintain a citywide bicycle route and maintenance plan that promotes efficient and safe bikeways integrated with the MTA's regional bicycle system.

Policy 3.5: As roadways are repaved or otherwise improved, evaluate opportunities to enhance the quality and safety of the roadway by implementing new or improved walking, bicycling, or public transit infrastructure. If no walking, bicycling, or public transit improvements are being provided, a report to the City Council should provide an explanation for why such improvements are not needed along this roadway segment.

LU Goal 3: Provide high quality, attractive and well-maintained commercial, industrial, and public environments that enhance the image and vitality of the City.

Policy 3.6: New commercial and industrial developments shall meet or exceed local and state requirements pertaining to noise, air, water, seismic safety and any other applicable environmental regulations.

EJ Goal 1: Reduce greenhouse gas emissions, enhance air quality, and reduce impacts associated with climate change.

Policy 1.2: Attract new clean industry to the City which do not emit smoke, noise, offensive odors, or harmful industrial wastes.

Policy 1.13: Reduce communitywide greenhouse gas emissions locally by actively supporting regional efforts to reduce greenhouse gases.

City of Gardena Climate Action Plan

In 2017, the City, in cooperation the South Bay Cities Council of Governments, prepared a Gardena Climate Action Plan (Gardena CAP), which includes the goal to reduce GHG emissions to 15% below 2005 levels by the year 2020 and the longer-term GHG reduction goal of 49% below 2005 levels by 2035. The Gardena CAP establishes a series of energy efficiency related measures intended to reduce GHG emissions based on the AB 32 Scoping Plan. Those applicable to the Project are Renewables Portfolio Standard for Building Energy Use, Assembly Bill 1109 Energy Efficiency

Standards for Lighting, Electricity Energy Efficiency, Residential Energy Efficiency Standards, Commercial Energy Efficiency Requirements and Residential Renewable Energy Requirements. The Gardena CAP is a planning tool with optional GHG reduction strategies and is not a qualified CAP for use in CEQA streamlining.

3.5.3 Thresholds of Significance

The following thresholds of significance are based on Appendix G of the CEQA Guidelines. Based on these thresholds, implementation of the proposed Project would have a significant adverse impact related to GHG emissions if it would:

1. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.
2. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

Based on the results of the Initial Study prepared for the Project, the following thresholds of significance are used to evaluate potential GHG impacts associated with the Project:

GHG-1. Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

GHG-2. Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. There are currently no established thresholds for assessing whether the GHG emissions of a project, such as the Project, would be considered a cumulatively considerable contribution to global climate change; however, all reasonable efforts should be made to minimize a project's contribution to global climate change. In addition, while GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008), GHG emissions impacts must also be evaluated on a project-level under CEQA.

With respect to GHG emissions, the CEQA Guidelines Section 15064.4(a) states that lead agencies "shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions resulting from a project. The CEQA Guidelines note that an agency has the discretion to either quantify a project's GHG emissions or rely on a "qualitative analysis or performance-based standards" (14 CCR 15064.4[a]). A lead agency may use a "model or methodology" to estimate GHG emissions and has the discretion to select the model or methodology it considers "most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change" (14 CCR 15064.4[c]). The CEQA Guidelines provide that the lead agency should consider the following when determining the significance of impacts from GHG emissions on the environment (14 CCR 15064.4[b]):

1. The extent a project may increase or reduce GHG emissions as compared to the existing environmental setting.

2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
3. The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

In addition, the CEQA Guidelines specify that "when adopting or using thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence" (14 CCR 15064.7[c]).

The extent to which a project increases or decreases GHG emissions in the existing environmental setting should be estimated in accordance with Section 15064.4, Determining the Significance of Impacts from Greenhouse Gas Emissions, of the CEQA Guidelines. The CEQA Guidelines indicate that when calculating GHG emissions resulting from a project, lead agencies shall make a good-faith effort based on scientific and factual data (Section 15064.4[a]), and lead agencies have discretion to select the model or methodology deemed most appropriate for enabling decision makers to intelligently assess the project's incremental contribution to climate change (Section 15064.4[c]).

The CEQA Guidelines do not indicate an amount of GHG emissions that constitutes a significant impact on the environment. Instead, they authorize the lead agency to consider thresholds of significance previously adopted or recommended by other public agencies or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence (14 CCR 15064.4[a] and 15064.7[c]).

The Governor's Office of Planning and Research technical advisory titled CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act (CEQA) Review states that "public agencies are encouraged but not required to adopt thresholds of significance for environmental impacts. Even in the absence of clearly defined thresholds for GHG emissions, the law requires that such emissions from CEQA projects must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact" (OPR 2018). Furthermore, the advisory document indicates that "in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice" (OPR 2008).

SCAQMD Guidance

In October 2008, the SCAQMD proposed recommended numeric CEQA significance thresholds for GHG emissions for lead agencies to use in assessing GHG impacts of residential and commercial development projects as presented in its Draft Guidance Document – Interim CEQA Greenhouse Gas (GHG) Significance Threshold (SCAQMD 2008). This guidance document, which builds on the previous guidance prepared by the California Air Pollution Control Officers Association, explored various approaches for establishing a significance threshold for GHG emissions. The draft interim CEQA thresholds guidance document was not adopted or approved by the Governing Board. However, in December 2008, the SCAQMD adopted an interim 10,000 MT CO_2e per-year screening level threshold for stationary source/industrial projects for which the SCAQMD is the lead agency (SCAQMD Resolution No. 08-35).

The SCAQMD formed a GHG CEQA Significance Threshold Working Group to work with SCAQMD staff on developing GHG CEQA significance thresholds until statewide significance thresholds or guidelines are established. From December 2008 to September 2010, the SCAQMD hosted working group meetings and revised the draft threshold proposal several times, although it did not officially provide these proposals in a subsequent document. The SCAQMD has continued to consider adoption of significance thresholds for residential and general land use development projects. The most recent proposal, issued in September 2010, uses the following tiered approach to evaluate potential GHG impacts from various uses (SCAQMD 2010):

Tier 1 Determine if CEQA categorical exemptions are applicable. If not, move to Tier 2.

Tier 2 Consider whether or not the proposed project is consistent with a locally adopted GHG reduction plan that has gone through public hearing and CEQA review, that has an approved inventory, includes monitoring, etc. If not, move to Tier 3.

Tier 3 Consider whether the project generates GHG emissions in excess of screening thresholds for individual land uses. The 10,000 MT CO_2e per year threshold for industrial uses would be recommended for use by all lead agencies. Under option 1, separate screening thresholds are proposed for residential projects (3,500 MT CO_2e per year), commercial projects (1,400 MT CO_2e per year), and mixed-use projects (3,000 MT CO_2e per year). Under option 2, a single numerical screening threshold of 3,000 MT CO_2e per year would be used for all non-industrial projects. If the project generates emissions in excess of the applicable screening threshold, move to Tier 4.

Tier 4 Consider whether the project generates GHG emissions in excess of applicable performance standards for the project service population (population plus employment). The efficiency targets were established based on the goal of AB 32 to reduce statewide GHG emissions to 1990 levels by 2020. The 2020 efficiency targets are 4.8 MT CO_2e per service population per year (MT CO_2e/SP/year) for project level analyses and 6.6 MT CO_2e/SP/year for plan level analyses. The 2035 efficiency targets are 3.0 MT CO_2e/SP/year for project level analyses and 4.1 MT CO_2e/SP/year for plan level analyses. If the project generates emissions in excess of the applicable efficiency targets, move to Tier 5.

Tier 5 Consider the implementation of CEQA mitigation (including the purchase of GHG offsets) to reduce the project efficiency target to Tier 4 levels.

Notably, the recommended thresholds for residential, commercial, and mixed-use projects have not been adopted by SCAQMD. These thresholds have been termed “interim” because at the time, SCAQMD anticipated that CARB would be adopting a statewide significance threshold that would inform and provide guidance to SCAQMD in its adoption of a final threshold. To date, no statewide threshold has been adopted and the interim thresholds remain in place.

The SCAQMD interim thresholds were based on implementation of EO S-3-05, achieving GHG emissions 80% below 1990 levels and were set at a level to “capture” 90% of GHG emissions from these land use sectors. The term “capture” meant that 90% of total emissions from new projects would be subject to some type of CEQA analysis (i.e., potentially significant) (SCAQMD 2008).

Approach to Determining Significance

Given that neither the City, nor CARB, nor SCAQMD have adopted a numerical threshold of significance for GHG emissions within the City or region, the approach for evaluating the Project's impacts related to GHG emissions relies on compliance with applicable plans, policies, or regulations adopted for the purpose of reducing the emissions of GHGs, which includes CARB's Scoping Plan, SCAG's RTP/SCS, and statewide 2030 and 2050 GHG reduction targets identified in SB 32 and EO S-3-05. The compliance evaluation is the sole basis for determining the significance of the Project's GHG-related impacts on the environment.

Nevertheless, and in accordance with Section 15064.4 of the State CEQA Guidelines, GHG emissions resulting from construction and operation of the Project were quantitatively estimated. In addition, to further support the compliance determination noted above, the Project's GHG emissions were compared to the SCAQMD interim threshold of 3,000 MT CO_2e per year under Tier 3, Option1 (commercial projects) and Option 2 (all non-industrial projects). Per the SCAQMD guidance, construction emissions should be amortized over the operational life of the Project, which is assumed to be 30 years (SCAQMD 2008). The GHG emissions associated with implementation of the Project were estimated using industry standard and accepted software tools, techniques, and emissions factors, as described below, for construction and operation.

Methodology

The Project's construction and operational emissions were calculated using the California Emissions Estimator Model version 2022.1.1 (CalEEMod). Details of the modeling assumptions and emission factors are provided in Appendix F of the EIR. For construction, CalEEMod calculates emissions from off-road equipment usage and on-road vehicle travel associated with haul, delivery, and construction worker trips. GHG emissions during construction were forecasted based on the proposed construction schedule and applying the mobile-source and fugitive dust emissions factors derived from CalEEMod. The Project's construction-related GHG emissions would be generated from off-road construction equipment, on-road hauling and vendor (material delivery) trucks, and worker vehicles. The Project's operational-related GHG emissions would be generated by vehicular traffic, area sources (e.g., landscaping maintenance, consumer products), electrical generation, natural gas consumption, water supply and wastewater treatment, and solid waste. Below is a description of the primary sources of operational emissions:

- **Area Sources.** Area source emissions occur from architectural coatings, landscaping equipment, and consumer products. Landscaping is anticipated to occur throughout the Project site. Additionally, the primary emissions from architectural coatings are volatile organic compounds, which are relatively insignificant as direct GHG emissions. The Project would result in approximately 5.5 $MTCO_2e/yr$ (refer to Table 3.5-6).
- **Energy Consumption.** Energy consumption consists of emissions from Project consumption of electricity and natural gas. Although the Project is a speculative warehouse, the analysis conservatively assumed a worst-case scenario that total building area of the warehouse would be refrigerated. The Project would result in approximately 973 $MTCO_2e/yr$ from energy consumption (refer to Table 3.5-6).

- **Off-Road Equipment.** Operational off-road emissions would be generated by off-road cargo handling equipment used during operational activities. For this Project it was assumed that the mixed use would include three forklifts per Client information. Based on CARB OFFROAD emissions data, the forklifts would generate approximately 10.4 $MTCO_2e$/yr.
- **Mobile Sources.** Mobiles sources from the standard Project operations were calculated with CalEEMod based on the trip generation from the Transportation Analysis. As shown in Table 3.5-6, the mobile source emissions from the Project would be approximately 1,902 $MTCO_2e$/yr.
- **Solid Waste.** Solid waste releases GHG emissions in the form of methane when these materials decompose. The Project would result in approximately 96 $MTCO_2e$/yr from solid waste (refer to Table 3.5-6).
- **Water and Wastewater.** GHG emissions from water demand would occur from electricity consumption associated with water conveyance and treatment. The Project would result in approximately 186 $MTCO_2e$/yr from water and wastewater conveyance and treatment (refer to Table 3.5-6).

Laws, Ordinances, and Regulations

Laws, Ordinances, and Regulations (LORs) were incorporated in the Project assumptions for analysis and are listed below as LOR measures. LORs are existing requirements and conditions of approval that are based on local, state, or federal regulations or laws that are frequently required independently of CEQA review. Typical standard conditions and requirements include compliance with the provisions of the Building Code, SCAQMD Rules, etc. The City may impose additional conditions during the approval process, as appropriate. Because LORS are neither Project specific nor a result of development of the Project, they are not considered to be either PDFs or Mitigation Measures.

LOR GHG-1. Prior to the issuance of grading permits, the City Engineer shall confirm that the Grading Plan, Building Plans and Specifications require all construction contractors to comply with South Coast Air Quality Management District's (SCAQMD's) Rules 402 and 403 to minimize construction emissions of dust and particulates. The measures include, but are not limited to, the following:

- Portions of a construction site to remain inactive longer than a period of three months will be seeded and watered until grass cover is grown or otherwise stabilized.
- All on-site roads will be paved as soon as feasible or watered periodically or chemically stabilized.
- All material transported off site will be either sufficiently watered or securely covered to prevent excessive amounts of dust.
- The area disturbed by clearing, grading, earthmoving, or excavation operations will be minimized at all times.
- Where vehicles leave a construction site and enter adjacent public streets, the streets will be swept daily or washed down at the end of the work day to remove soil tracked onto the paved surface.

LOR GHG-2. The applicant shall require by contract specifications that the interior and exterior architectural coatings (paint and primer including parking lot paint) products used would comply with

SCAQMD Rule 1113 which requires building envelope coatings to have a volatile organic compound rating of 50 grams per liter or less.

LOR GHG-3. Require diesel powered construction equipment to turn off when not in use per Title 13 of the California Code of Regulations, Section 2449.

LOR GHG-4. Install water-efficient irrigation systems and devices, such as soil moisture-based irrigation controls and sensors for landscaping according to the City's Water Efficient Landscape requirements (Chapter 15.60 of the City's Municipal Code).

LOR GHG-5. The Project shall be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every three years, to incorporate improved energy efficiency technologies and methods. The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. The Title 24 Energy Efficiency Standards (Section 110.10) require buildings to be designed to have 15 percent of the roof area "solar ready" that will structurally accommodate later installation of rooftop solar panels. If future building operators pursue providing rooftop solar panels, they will submit plans for solar panels prior to occupancy.

LOR GHG-6. The Project shall be designed in accordance with the applicable California Green Building Standards (CALGreen) Code (24 CCR, Part 11). The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. These requirements include, but are not limited to:

- Design buildings to be water-efficient. Install water-efficient fixtures in accordance with Section 5.303 (nonresidential) of the California Green Building Standards Code Part 11.
- Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1 (nonresidential) of the California Green Building Standards Code Part 11.
- Provide storage areas for recyclables and green waste and adequate recycling containers located in readily accessible areas in accordance Section 5.410 (nonresidential) of the California Green Building Standards Code Part 11.
- To facilitate future installation of electric vehicle supply equipment (EVSE), nonresidential construction shall comply with Section 5.106.5.3 (nonresidential electric vehicle charging) of the California Green Building Standards Code Part 11.

3.5.3.1 Project Design Features

Project Design Feature (PDF) are elements of the Project that are designed to reduce its environmental impact. The following PDF has been incorporated into the Project:

PDF-GHG-1 The Project shall be designed to be all-electric and prohibit connection to natural gas infrastructure. Using electric instead of natural gas-powered appliances replaces a more emissions-intensive fossil fuel source of energy with a less emissions-intensive source of energy as electricity from the grid is increasingly transitioning to renewable sources.

3.5.4 Impact Analysis

Threshold GHG-1. Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

and

Threshold GHG-2. Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

As discussed previously, the Project's compliance with regulatory programs adopted by CARB, and other state and local agencies is used to evaluate the significance of the Project's GHG emissions. The Project's potential to conflict with applicable GHG reduction plans is evaluated below.

SCAG RTP/SCS Consistency

GHG emissions resulting from development-related mobile sources are the most potent source of emissions, and therefore Project comparison to the RTP/SCS is an appropriate indicator of whether the Project would inhibit the post-2020 GHG reduction goals promulgated by the state. The Project's consistency with the RTP/SCS goals is analyzed in detail in Table 3.5-4.

The RTP/SCS goals were used to determine consistency with the planning efforts previously stated. As shown in Table 3.5-4, the Project would be consistent with the stated RTP/SCS goals. Further, compliance with applicable state standards would ensure consistency with state and regional GHG reduction planning efforts. Therefore, the Project would not interfere with SCAG's ability to achieve the region's post-2020 mobile source GHG reduction targets. A less-than-significant impact would occur in this regard, and no mitigation is required.

Table 3.5-4. Project Consistency with the Regional Transportation Plan/ Sustainable Communities Strategy

SCAG Goals		Consistency Analysis
GOAL1:	Encourage regional economic prosperity and global competitiveness.	**Consistent.** This policy would be implemented at the jurisdiction level by cities and counties within the SCAG region as part of local land use and policy planning efforts. Nonetheless, the Project would involve construction of mixed-use commercial/industrial (warehouse[3]) development on a currently blighted an underutilized property. Thus, the Project would establish a jobs-producing and tax-generating land use that would meet contemporary industry standards.

[3] "Warehouse" includes distribution uses as set forth in the Project Description.

Table 3.5-4. Project Consistency with the Regional Transportation Plan/ Sustainable Communities Strategy

SCAG Goals		Consistency Analysis
GOAL 2:	Improve mobility, accessibility, reliability, and travel safety for people and goods.	**Consistent.** Although this Project is not a transportation improvement project, the Project is located near existing transit routes on Artesia Boulevard, Western Avenue, and access to I-110 and SR-91, which would help to facilitate regional goods movement from the warehouse component throughout Southern California.
GOAL 3:	Enhance the preservation, security, and resilience of the regional transportation system.	**Consistent.** A local transportation assessment (Appendix J2) has been prepared to determine the Project's potential effect on the regional and local circulation system. The Project would not adversely affect the local or circulation system.
GOAL 4:	Increase person and goods movement and travel choices within the transportation system.	**Consistent**. The Project would include construction and operation of mixed-use development that includes a warehouse component. The Project site would be easily and efficiently accessible to regional highways (i.e., I-105, I-110 and SR-91), which would help to facilitate regional goods movement throughout Southern California.
GOAL 5:	Reduce greenhouse gas emissions and improve air quality.	**Consistent.** The reduction of energy use, improvement of air quality, and promotion of more environmentally sustainable development are encouraged through the development of alternative transportation methods, green design techniques for buildings, and other energy-reducing techniques. The Project is required to comply with the provisions of the California Building Energy Efficiency Standards and the Green Building Standards Code (CALGreen). The Project will also be required to install solar as a mitigation measure. In addition, according to SCAG's Comprehensive Regional Goods Movement Plan and Implementation Strategy, the region will run out of suitably zoned vacant land designated for warehouse facilities in or around 2028 (SCAG 2013). As the Project includes a warehouse component, it would meet the growing demand for warehousing space, and would do so in an area that is proximate to regional highways (i.e., I-105, I-110 and SR-91), thereby reducing the need for

Table 3.5-4. Project Consistency with the Regional Transportation Plan/ Sustainable Communities Strategy

SCAG Goals		Consistency Analysis
		longer distance trips which could result in additional air pollutant and GHG emissions.
GOAL 6:	Support healthy and equitable communities.	**Consistent.** This policy pertains to health and equitable communities, which are addressed at the policy-level by the City's Safety Element. The Project would be designed consistent with applicable health and safety requirements, including the California Building Code. Additionally, as discussed in Section 3.1, Air Quality, health risk assessments were prepared for the Project, which concluded that, with implementation of MM-AQ-1 and MM AQ-2, the Project would not have a significant adverse effect on the health of the local community. By providing a tax-generating and jobs-producing land use, the Project would drive economic growth within the City and region, thereby supporting equity in the City.
GOAL 7:	Adapt to a changing climate and support an integrated regional development pattern and transportation network.	**Consistent.** As climate change continues to increase the number of instances of disruption to local and regional systems, it will become increasingly more urgent for local jurisdictions to employ strategies to reduce their individual contributions. The Project would involve a mixed-use development that would increase the emission of GHG and air pollutants. However, as discussed in Section 3.1, Air Quality, and herein, the Project would implement mitigation measures to reduce air quality and greenhouse gas emissions to the maximum extent feasible. Moreover, siting the Project in a location that is proximate to regional highways (i.e., I-105, I-110 and SR-91) would facilitate the integration of a regional transportation network.
GOAL 8:	Leverage new transportation technologies and data-driven solutions that result in more efficient travel.	**Consistent.** Development of the proposed Project would provide quick and efficient access to multiple freeways, thereby eliminating the need for truck traffic to take longer routes through residential areas and supporting efficient travel. The Project would also include passenger EV charging stations, per CALGreen

Table 3.5-4. Project Consistency with the Regional Transportation Plan/ Sustainable Communities Strategy

SCAG Goals		Consistency Analysis
		standards. The Project would include 124 automobile parking stalls, including 25 EV capable parking spaces and 6 EVCS spaces (charging stations)
GOAL 9:	Encourage development of diverse housing types in areas that are supported by multiple transportation options.	**Consistent.** The Project does not involve housing development; therefore, this goal is not applicable. However, the Project site is located within a relatively short walking distance to local bus routes.
GOAL 10:	Promote conservation of natural and agricultural lands and restoration of habitats.	**No conflict identified.** The Project site is entirely developed and located within an urban area. No natural and agricultural lands are located within the immediate Project vicinity.

Source: Southern California Association of Governments, *Regional Transportation Plan/Sustainable Communities Strategy,* 2020.

Consistency with the CARB 2022 Scoping Plan

As previously noted, CARB's 2022 Scoping Plan sets a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85% below 1990 levels by 2045 in accordance with AB 1279. The transportation, electricity, and industrial sectors are the state's largest GHG contributors. The 2022 Scoping Plan intends to achieve the AB 1279 targets primarily through zero-emission transportation (e.g., electrifying cars, buses, trains, and trucks). Additional GHG reductions would be achieved through decarbonizing the electricity and industrial sectors.

Statewide strategies to reduce GHG emissions in the latest 2022 Scoping Plan include implementing SB 100, which would achieve 100% clean electricity by 2045; achieving 100% zero-emission vehicle sales in 2035 through Advanced Clean Cars II; and implementing the Advanced Clean Fleets regulation to deploy zero-emission electric vehicle buses and trucks. Additional transportation policies include the Off-Road Zero-Emission Targeted Manufacturer Rule, Clean Off-Road Fleet Recognition Program, In-use Off-Road Diesel-Fueled Fleets Regulation, Off-Road Zero-Emission Targeted Manufacturer Rule, Clean Off-Road Fleet Recognition Program, and Amendments to the In-use Off-Road Diesel-Fueled Fleets Regulation. The 2022 Scoping Plan would continue to implement SB 375. In addition, the 2022 Scoping Plan emphasizes the decarbonization of buildings in commercial and residential uses through policies and codes that prescribe all-electric developments. GHGs would be further reduced through the Cap-and-Trade Program carbon pricing and SB 905. SB 905 requires CARB to create the Carbon Capture, Removal, Utilization, and Storage Program to evaluate, demonstrate, and regulate carbon dioxide removal projects and technology.

As shown in Table 3.5-5, approximately 92% of the Project's GHG emissions would be from energy and mobile sources, which would be further reduced by the 2022 Scoping Plan measures described

above. It is noted that the City has no control over vehicle emissions (approximately 70% of the Project's total emissions). However, these emissions would decline in the future due to the statewide measures discussed above, as well as cleaner technology and fleet turnover. Several of the state's plans and policies would contribute to a reduction in the Project's mobile source emissions, including the following:

- **CARB's Advanced Clean Truck Regulation:** Adopted in June 2020, CARB's Advanced Clean Truck Regulation requires truck manufacturers to transition from diesel trucks and vans to electric zero-emission trucks beginning in 2024. By 2045, every new truck sold in California is required to be zero-emission. The Advanced Clean Truck Regulation accelerates the transition of zero-emission medium-and heavy-duty vehicles from Class 2b to Class 8.
- **Executive Order N-79-20:** Executive Order N-79-20 establishes the goal for all new passenger cars and trucks, as well as all drayage/cargo trucks and off-road vehicles and equipment, sold in California, to be zero-emission by 2035 and all medium and heavy-duty vehicles to be zero-emission by 2045. It also directs CARB to develop and propose rulemaking for passenger vehicles and trucks, medium-and heavy-duty fleets where feasible, drayage trucks, and off-road vehicles and equipment "requiring increasing volumes" of new ZEVs "towards the target of 100 percent."
- **CARB's Mobile Source Strategy:** CARB's Mobile Source Strategy takes an integrated planning approach to identify the level of transition to cleaner mobile source technologies needed to achieve all of California's targets by increasing the adoption of ZEV buses and trucks.
- **CARB's Sustainable Freight Action Plan:** The Sustainable Freight Action Plan which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of ZEV trucks. This Plan applies to all trucks accessing the Project site and may include existing trucks or new trucks that are part of the statewide goods movement sector.
- **CARB's Emissions Reduction Plan for Ports and Goods Movement:** CARB's Emissions Reduction Plan for Ports and Goods Movement identifies measures to improve goods movement efficiencies such as advanced combustion strategies, friction reduction, waste heat recovery, and electrification of accessories.

While these measures are not directly applicable to the Project, any commercial activity associated with goods movement would be required to comply with these measures as adopted. The Project would not obstruct or interfere with efforts to increase ZEVs or state efforts to improve system efficiency. Compliance with applicable state standards (e.g., continuation of the Cap-and-Trade regulation; CARB's Mobile Source Strategy, Sustainable Freight Action Plan, and Advanced Clean Truck Regulation; Executive Order N-79-20; SB 100/renewable electricity portfolio improvements that require 60% renewable electricity by 2030 and 100% renewable by 2045, etc.,) would ensure consistency with state and regional GHG reduction planning efforts, including the 2022 Scoping Plan. It is also noted that the Project would not convert any Natural and Working Lands (NWL) and/or decrease the state's urban forest carbon stock, which are areas of emphasis in the 2022 Scoping Plan.

As noted, many of the 2022 Scoping Plan measures are not directly applicable to the Project; however, there are Project-specific operational emission reduction measures that can be implemented to ensure consistency with CARB strategies for the reduction of GHGs. Without implementation of these Project-specific measures, the Project has the potential to conflict with the state's reduction strategies, resulting in a potentially significant impact. The Project has incorporated

these measures as PDF-GHG-1, which serves to decarbonize buildings, by designing the building to be all-electric and prohibiting connection to natural gas infrastructure. The Project also includes MM-AQ-2, which requires the use of all-electric cargo handling equipment. In addition, the Project includes MM-GHG-1, which requires the provision of on-site renewable energy. With implementation of PDF-GHG-1, MM-AQ-2 and MM-GHG-1, the Project would not conflict with the 2022 Scoping Plan and would be consistent with applicable GHG reduction strategies to decarbonize buildings and increase renewable energy production; accordingly, the impact would be less than significant.

City of Gardena Climate Action Plan Consistency

The City adopted the Gardena CAP in 2017, which is a planning tool with optional GHG reduction strategies and is not a qualified CAP for use in CEQA streamlining. The Project is in support of Measures EE:C4 and EE:D1 of the Gardena CAP, which are to upgrade older commercial buildings and require new buildings to achieve or exceed Title 24 standards, and Measure EGS: A2, which aims to accelerate the implementation of renewable energy technologies. As such, the proposed Project would be consistent with the Gardena CAP.

Quantification of Emissions

In accordance with CEQA Guidelines 15064.4(c) the Project's construction and operational emissions have been quantified for disclosure purposes only. The Project's significance has been evaluated based on its potential to conflict with applicable GHG reduction plans.

Short-Term Construction Greenhouse Gas Emissions

Project construction activities would generate direct CO_2, N_2O, and CH_4 emissions from construction equipment, transport of materials, and construction workers commuting to and from the Project site. Construction GHG emissions are typically summed and amortized over a 30-year period (SCAQMD 2009). Total GHG emissions generated during all construction phases were combined and are presented in Table 3.5-5.

Table 3.5-5. Construction-Related Greenhouse Gas Emissions

Category	MTCO2e
Construction	755
30-Year Amortized Construction	25.16

Source: CalEEMod version 2022.1. Refer to Appendix F.

As indicated in Table 3.5-5, Project construction-related emissions would total approximately 755 $MTCO_2e$ over the course of construction. Construction GHG emissions amortized over a 30-year period would be 25.16 $MTCO_2e$ per year. Once construction is complete, construction-related GHG emissions would cease.

Long-Term Operational Greenhouse Gas Emissions

Operational or long-term emissions would occur over the Project's lifetime. GHG emissions would result from direct emissions such as Project-generated vehicular traffic, on-site combustion of natural gas, and operation of any landscaping equipment. Operational GHG emissions would also result from indirect sources, such as off-site generation of electrical power, the energy required to convey water to, and wastewater from the Project, the emissions associated with solid waste generated from the Project, and any fugitive refrigerants from air conditioning or refrigerators.

The Project's operational GHG emissions are provided in Table 3.5-6. The proposed Project is forecast to generate 725 average daily vehicle trips (ADT), which includes 75 average daily truck trips. Special event trips (220 daily trips) were conservatively assumed to occur 36 times in the year, as they are held at most three times per month. Annual emissions for special events were calculated by multiplying the maximum single day emissions from these events by 36 (the number of events per year).

As shown in Table 3.5-6, the Project would potentially generate a net of approximately 3,687 $MTCO_2e$ annually from both construction and operations prior to mitigation and with the incorporation of MM-GHG-1 and MM-GHG-2, the Project would generate a net of 2,994 $MTCO_2e$.

Table 3.5-6. Operational Project Greenhouse Gas Emissions

Emissions Source	Unmitigated MTCO2e per Year	Mitigated MTCO2e per Year
Existing Conditions	167	167
Proposed		
Construction Amortized Over 30 Years	25.16	25.16
Area Source	5.45	5.45
Energy[1]	972.74	877.38[2]
Mobile[3]	1,875.34	1,875.34
Mobile (Special Events)[2]	26.60	26.60
Refrigerants	0.00	0.00
Stationary – Yard Trucks and Forklifts[4]	656.34	58.22
Stationary – Emergency Generators	10.43	10.43
Waste	96.03	96.03
Water and Wastewater	186.32	186.32
Total Emissions	**3,854.42**	**3,160.94**
Net Emissions (Project –Existing)	*3,687.42*	*2,993.94*

Source: CalEEMod version 2022.1. Refer to Appendix F.

Notes: MMT CO2e = million metric tons of carbon dioxide equivalent.

1 The Project will be designed to be all-electric and would not utilize natural gas as described in PDF GHG-1. Thus, natural gas emissions are excluded from this table.

2 MM GHG-1 requires total on-site electricity consumption to be a maximum of 2,226,107 kWh/year. Any on-site consumption above this amount shall be produced by on-site renewable resources (e.g., solar photovoltaic panels).

3 Includes special events, which would be held approximately two to three times per month, including weekday evening events (after 6 p.m.) and weekend daytime events. Special events being held at most three times per month would constitute a 3% increase in annual ADT. In order to account for special events, mobile emissions were conservatively increased by 3%.

4 MM AQ-2 requires cargo handling equipment (e.g., yard trucks, hostlers, yard goats, etc.) to be zero emission (i.e., electric). Mitigated emissions include energy (electricity) emissions for the electrified equipment.

Most Project emissions (approximately 75% of unmitigated and 88% of mitigated) would occur from mobile and energy sources. As noted above, energy and mobile sources are targeted by statewide measures such as low carbon fuels, cleaner vehicles, strategies to promote sustainable communities and improved transportation choices that result in reducing VMT, continued implementation of the Renewable Portfolio Standard (the target is now set at 60% renewables by 2030), and extension of the Cap and Trade program (requires reductions from industrial sources, energy generation, and fossil fuels). The passage of AB 398 in July 2017 extended the duration of the Cap and Trade program from 2020 to 2030. With continued implementation of various statewide measures, the Project's operational energy and mobile source emissions would continue to decline in the future.

The current version of CalEEMod assumes compliance with the 2019 Title 24 Building Energy Efficiency Standards (CAPCOA 2022). However, construction of the proposed Project would be required to comply with the 2022 Title 24 Standards at a minimum and, depending on timing of Project buildout, may be required to comply with future, more stringent energy codes.

The Project would also comply with the appliance energy efficiency standards in California Code of Regulations Title 20. The Title 20 standards include minimum levels of operating efficiency, and other cost-effective measures, to promote the use of energy- and water-efficient appliances. The Project would be constructed according to the standards for high-efficiency water fixtures for indoor plumbing and water efficient irrigation systems required in 2022 Title 24, Part 11 (CALGreen).

At the state and global level, improvements in technology, policy, and social behavior can also influence and reduce operational emissions generated by a project. The state is currently on a pathway to achieving the Renewable Portfolio Standards goal of 33% renewables by 2020 and 60% renewables by 2030 per SB 100. Despite these goals, most of the Project's emissions would still be from mobile and energy sources. Future mobile source emissions are greatly dependent on changes in vehicle technology, fuels, and social behavior, which can be influenced by policies to varying degrees. Taking known future policies into account, CARB estimates that about 96% of future vehicles in Los Angeles County would still run on fossil fuels, even with increased electric vehicle mode share. This is assumed to also apply to the Project vehicle fleet, absent data that may suggest otherwise. Due to these external factors, average emissions from transportation in 2050 would mostly still generate GHG emissions, but the quantity is uncertain in light of potential changes in technology and policy over the next 30 years.

As discussed above, the Project would implement operational GHG reduction measures to be consistent with state strategies for GHG reduction. measures, which would serve to further reduce operational GHG emissions. As such, impacts would be **less than significant with mitigation**.

3.5.5 Mitigation Measures

MM-AQ-2 Electric Cargo Handling Equipment. All outdoor cargo handling equipment (such as yard trucks, hostlers, yard goats, pallet jacks, and forklifts) shall be zero emission (i.e., powered by electricity or other alternative fuels). The warehouse building shall include the necessary charging stations for cargo handling equipment. The building manager or their designee shall be responsible for enforcing these requirements.

MM-GHG-1 Establish On-Site Solar Power. Prior to the issuance of a Building permit, the Project Applicant shall provide written proof to the City of Gardena Community Development Director that the total annual electricity demand from on-site operations does not exceed 2,226,107 kWh/year. On-site electrical demand exceeding 2,226,107 kWh/year shall be supplied by on-site renewable sources (e.g., solar photovoltaic panels). Further, the Project will be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every 3 years, to incorporate improved energy efficiency technologies and methods. The Building Official, or designee shall ensure compliance prior to the issuance of each building permit. The Title 24 Energy Efficiency Standards (Section 110.10) require buildings to be designed to have 15% of the roof area "solar ready" that will structurally accommodate later installation of rooftop solar panels. If future building operators pursue providing rooftop solar panels, they will submit plans for solar panels prior to occupancy.

3.5.6 Level of Significance After Mitigation

Threshold GHG-1: Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Threshold GHG-2: Would the Project generate conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

The Project would result in potentially significant impacts with regard to potential conflicts with GHG reduction strategies. Implementation of PDF-GHG-1, MM-GHG-1, and MM-AQ-2 would serve to decarbonize the building, increase renewable energy, and transition cargo handling equipment to less carbon-intensive fuel (electric, which includes increasingly more renewables) which helps the Project show consistency with the Scoping Plan strategies for reducing GHG emissions. Therefore, the Project's impacts are **less than significant with mitigation.**

3.5.7 Cumulative Effects

As discussed previously, global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all

other sources of GHGs. There are currently no established thresholds for assessing whether the GHG emissions of a project, such as the Project, would be considered a cumulatively considerable contribution to global climate change. As shown in the analysis, the Project is consistent with the RTP/SCS. With the implementation of mitigation, the Project is consistent with GHG reduction strategies include in CARB's 2022 Scoping Plan and the City of Gardena CAP, which have been adopted to address GHGs on cumulative basis. Based on the preceding, the Project would **not have a cumulative impact** on GHGs.

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3.6 Hazards and Hazardous Materials

This section describes the existing hazards and hazardous materials conditions of the Project site and vicinity, identifies associated regulatory requirements, evaluates potential impacts, and identifies mitigation measures related to implementation of the proposed Project.

The analysis for this section is based on information from the following documents:

- Phase I Environmental Site Assessment, prepared by Roux, January 19, 2022 (Appendix G1)
- Phase II Environmental Site Assessment, prepared by Roux, March 29, 2022 (Appendix G2)
- Remedial Action Plan, prepared by GeoSyntec, June 30, 2022 (Appendix G3)

3.6.1 Existing Conditions

3.6.1.1 Environmental Setting

As described in Section 2, Project Description, the Project site is located at the southwest corner of Artesia Boulevard and Normandie Avenue. The Project would cover approximately 6.33 acres, which currently contain three industrial structures, a paved, open area along Artesia Boulevard, and one residential dwelling to the south of the industrial properties. The Project site is bordered by Dominguez Channel to the south, multi-family residential to the west, and mixed commercial uses to the north and east (shopping centers, restaurants).

Groundwater has been identified in two hydraulic zones beneath the Project site: Zone A at approximately 15 to 25 feet below ground surface and Zone B at approximately 75 to 80 feet below ground surface.

3.6.1.2 Historical Site Uses and Previous Environmental Investigations

Gardena Sumps

As discussed in the Phase I ESA (Appendix G1), the Project site was marshy lands until the 1920s, when it was developed as a clay mine. Following clay mining, the excavation pits were used by petroleum companies to dispose of waste oils, sludges, rinse waters, acids, and tank bottom sludges. These backfilling activities occurred during the 1940s and 1950s,[1] and are collectively referred to as "Gardena Sumps." By 1951 all the sumps had been covered with dirt and repurposed for industrial uses and parking. The approximate outline of the Gardena Sumps, including areas impacted by the Haack, Cooper North, Cooper South, and Haack Rework Area, are shown on Figure 2-3, Site Contamination.

Investigations and regulatory involvement with the Department of Toxic Substances Control (DTSC) began in the early 1980s (at the time, DTSC was the Department of Health Services [DHS]). DTSC has issued various orders, including Remedial Action Orders (RAOs) and a Determination of Imminent

[1] According to the Gardena Sump project site summary on DTSC EnviroStor database, the petroleum disposal activities occurred between the 1930s and the late 1950s.

and/or Substantial Endangerment and Issuance Order (DISEIO), and placed a lien on the Cooper property based on response costs DTSC incurred for this property. Following these agency actions, the sumps were covered with geosynthetic liners, asphalt, and concrete, and the site was fenced. Atlantic Richfield Company (ARC) is subject to a consent agreement with DTSC and a Final Remedial Action Plan (Final RAP) that DTSC approved July 17, 2022 to remediate the Gardena Sumps site (DTSC 2023). DTSC and the owners of the Cooper property have entered into a settlement agreement by which DTSC would release its lien upon the satisfaction of specified conditions (DTSC 2022a).

As discussed in the Final RAP, prepared by GeoSyntec on June 30, 2022, and included herein as Appendix G3, multiple investigations and human health risk assessments have been completed for the Gardena Sumps site. Investigation activities have included sampling of soil, soil gas, and groundwater; over 300 subsurface samples have been collected to fully characterize the nature and extent of the sludge and sludge-induced impacts at the Gardena Sumps site. The Final RAP outlines the response actions that ARC must undertake to remediate the Gardena Sumps site to commercial/industrial use standards, and describes the contaminants of concern as arsenic, hexavalent chromium, naphthalene, and benzo(a)pyrene toxicity equivalents[2] in soil; benzene and hydrogen sulfide in air; and dibenz(a,h)anthracene in groundwater (collectively, COCs). Fate and transport evaluation has concluded that the undisturbed sludges do not pose a threat to surface water, or shallow or deep groundwater, air quality, or surrounding soils. Treatment and stabilization studies were also conducted, which determined the buried sludges can be neutralized, and lead can be fixated within the sludge, reducing leachability.

The RAP discusses and takes into account the proposed Project, stating "to the extent that the redevelopment plans are approved in such a manner so as to be consistent with the remedy, [ARC] will coordinate with the developer, as necessary, to carry out redevelopment at the site to the extent practical and appropriate."

The Final RAP requires ARC to undertake the following remedial actions:

- Excavate the Haack Rework Area and part of the overflow along the eastern perimeter of the Cooper Sumps (reference Figure 2-3)
- Consolidate excavated materials above the Cooper North and Cooper South Sumps
- Place a cap consisting of a stabilization layer, foundation layer, low-hydraulic conductivity layer, and erosion resistance layer above the sumps
- Install a vapor control and monitoring system with flexible gas collection system designed to accommodate long-term operation
- Implement institutional controls, including a health and safety plan, construction quality assurance plan, and risk management plan

[2] When multiple chemicals have similar toxicological properties, their concentrations can be expressed in equivalency factors to accommodate toxicological calculations. For polyaromatic hydrocarbons (PAHs), benzo(a)pyrene toxicity equivalents are often used to evaluate carcinogenicity. This is not the same as the concentration of benzo(a)pyrene; it represents the total concentration of carcinogenic PAHs detected at a site and represents them as a single factor.

- Record a land use covenant that would limit future uses of the Project site to industrial and commercial uses that are consistent with the Project's proposed uses
- Require long-term operation and maintenance of the cap, vapor control and monitoring system, and gas collection system
- Install a retaining wall system along the north side of the Haack sump
- Install, operate, maintain, and repair a groundwater monitoring system

The RAP outlines the sequence of work to complete the proposed remedial actions, site safety procedures, traffic control, worker protections, community relations, permitting requirements, and schedule.

Phase I ESA

The Phase I ESA (Appendix G1) identified two recognized environmental conditions (RECs) on the Project site:

- Historical Sump Operations (Gardena Sumps, discussed above)
- Historical Aircraft Magnesium Operations

Aircraft Magnesium was a manufacturer of aluminum and magnesium aircraft parts that occupied the Haack Property (western side of the Project site) from 1960 to 1994. According to documents reviewed during the Phase I ESA, operations included discharge of industrial wastewater from parts washers, a pickling tank, manufacturing operations with aluminum and magnesium alloys, and use of nitric acid. A sump and receptor located on the Haack property were closed in 1994. The industrial operations, inground conveyances, and documented discharges were identified as a REC.

The Phase I ESA also identified three "other environmental features," which are conditions that do not meet the definition of a REC but may warrant further attention.

- The northern-adjoining property located across Artesia Boulevard was occupied by multiple drycleaning facilities from 1993 through 2020. While no subsurface investigations were identified and no releases documented, drycleaning operations are typically associated with incremental releases of tetrachloroethylene (PCE), which is volatile and mobile in groundwater.
- The Haack portion of the Project site (western side) was occupied by light industrial operations beginning in the 1980s, in addition to the Aircraft Magnesium operations that occurred until 1994. While no significant chemical use was obtained, light industrial use can be associated with incremental release of hazardous materials over time.
- A French drain and small sump were observed on the Project site along the southern boundary of the northernmost industrial building on the Haack property. The use of the feature, and its history, is unknown. While no direct evidence of releases to this sump were documented or known, there was a potential for subsurface impacts due to ongoing incremental releases into this sump and drain.

Phase II ESA

In response to the RECs identified in the Phase I ESA, a subsurface investigation (Phase II ESA) was conducted to evaluate potential impacts to future site construction workers and occupants on the Haack parcel (west of the Gardena Sumps). The Phase II ESA, which is provided as Appendix G2, included a sampling plan that took into account future Project site development, with a commercial structure on the west side and parking/pavement on the east side, similar to the proposed Project (reference Figure 2-4, Site Plan). Soil and soil vapor samples were collected within the footprint of the proposed building, and analytical results were compared to commercial screening levels based on future site development. The Gardena Sumps areas were not evaluated.

The sample concentrations reported in the Phase II ESA were compared to Environmental Screening Levels (ESLs) (SFBRWQCB 2019). As further discussed in Section 3.6.2, Relevant Plans, Policies, and Ordinances, ESLs are used statewide as guidance levels for evaluating risks to human health and the environment. As the proposed Project includes construction and operation of a commercial building, ESLs were used to evaluate exposure during construction (construction worker soil), exposure during operation (commercial soil and soil vapor), and exposure to nuisance odors caused by subsurface soil vapors (odor/nuisance levels, soil vapor). Table 3.6-1 summarizes the observed concentrations that exceed applicable ESLs.

Table 3.6-1. Summary of Contaminants of Concern

Sample ID	Sample Location	Sample Depth (ft-bgs)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)
Soils				
SV-6-0.5	West side of proposed building	0.5	**2,800**	1,100
SV-7-2	East side of proposed building	2	**35,000**	48,000
ESL – Commercial Soil			1,200	180,000
ESL – Construction Worker Soil			1,100	54,000
Soil Vapor				
SV-1 through SV-7, SV-9	Entire building footprint	5 to 10	**6,749** to **32,624**	10 to 51
SV-8	East side of proposed building	5	**46,443**	**97**
ESL – Odor/Nuisance Levels, Soil Vapor			3,300	1,100,000
ESL – Commercial Soil Vapor			83,000	67

Notes: ft-bgs = feet below ground surface; mg/kg = milligram per kilogram; TPH-GRO = total petroleum hydrocarbons – gasoline range organics; TPH-DRO = total petroleum hydrocarbons – diesel range organics; TPH-ORO = total petroleum hydrocarbons – oil range organics; PCE = tetrachloroethylene; µg/m^3 = micrograms per cubic meter.
Bold results indicate concentrations were detected above one or more applicable screening levels shown.

Complete results with reporting limits presented in Appendix G2.
ESL = environmental screening levels (SFBRWQCB 2019). ESLs shown are established for exposure to soil and soil vapor in a commercial setting (Commercial Soil and Commercial Soil Vapor, respectively), exposure to soil in a construction setting (Construction Worker Soil), and odor/nuisance levels in a commercial setting (i.e., the contaminant of concern can be smelled; Odor/Nuisance Levels, Subslab Soil Vapor).

Based on the findings of the Phase II ESA, the following conclusions were made:

- Diesel and oil range hydrocarbons that exceed applicable commercial screening levels were identified in soils at three separate locations (LARWQCB SSLs; LARWQCB 1996).
- Metals, VOCs, and semi-volatile organic compounds (SVOCs) identified in soils did not exceed applicable commercial screening levels (DTSC SLs; DTSC 2022b).
- VOCs identified in soil vapor did not exceed applicable commercial screening levels (DTSC SLs).
- Methane was not detected above 10% of the lower explosive limit (LEL), 5,000 parts per million by volume (ppmv).

Based on concentrations observed in the 2022 Phase II ESA (Appendix G2), there is a potential for exposure to petroleum hydrocarbons, both in soil and soil vapor, during construction and operation of the proposed Project. One location, SV-8, which is near the eastern portion of the proposed building, contained gasoline-range organics at concentrations above screening levels for exposure to soils at commercial levels.

Roux provided the following recommendations for the commercial development portion of the Project in the Phase II ESA that would complement the response actions that ARC must undertake under the Final RAP and enhance this remedy's ability to achieve cleanup standards appropriate for the Project's commercial/industrial uses:

- Incorporate vapor intrusion mitigation into the building construction plans.
- Prepare a soil management plan for future building construction and grading activities.
- Prepare an operations, maintenance, and monitoring (OM&M) plan for future sample collection to ensure vapor intrusion mitigation is properly functioning and equipment/systems are properly maintained.
- Ensure that a land use covenant (LUC) as an institutional control under the Final RAP accounts for future development and mitigation, clarifies that the Project's commercial and industrial uses are permitted, and discloses risks, restrictions, and requirements to future buyers and occupants.[3]

The Phase II ESA, including the above recommendations, assumed ARC will implement the Final RAP for the Gardena Sumps as it is required to do, including, but not limited to each of the remedial actions the Final RAP requires as outlined above, monitoring, sampling, and maintenance of the chosen remedy, and reporting and compliance with DTSC and other regulatory agencies, as necessary.

[3] The LUC is not yet implemented, but rather is a part of the Final RAP (Appendix G3).

3.6.1.3 Hazardous Materials Sites

In addition to the Project site being located on the Gardena Sumps cleanup site, a search was conducted for nearby contaminated sites that could potentially impact the environmental conditions of the Project site.

Cortese List Sites

Government Code Section 65962.5 requires the California Environmental Protection Agency (CalEPA) to compile a list of hazardous waste and substances sites (Cortese List). While the Cortese List is no longer maintained as a single list, the following databases provide information that meet the Cortese List requirements:

1. List of Hazardous Waste and Substances sites from Department of Toxic Substances Control EnviroStor database (Health and Safety Codes 25220, 25242, 25356, and 116395);
2. List of LUST Sites by County and Fiscal Year from the State Water Resources Control Board GeoTracker database (Health and Safety Code 25295);
3. List of solid waste disposal sites identified by the State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit (Water Code Section 13273[e] and 14 CCR Section 18051);
4. List of "active" Cease and Desist Orders and Cleanup and Abatement Orders from the State Water Resources Control Board (Water Code Sections 13301 and 13304); and
5. List of hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code, identified by the Department of Toxic Substances Control.

The Gardena Sumps site is a Cortese List site, and is discussed in Section 3.6.1.2, Historical Site Uses and Previous Environmental Investigations; additionally, four Hazardous Waste and Substances sites were identified on the EnviroStor database within 1 mile of the Project site, and three LUST sites were identified on the GeoTracker database within 0.50 miles of the Project site.[4] These sites and their details are noted in Table 3.6-2.

Table 3.6-2. Summary of Cortese List Sites

Site Name and Address	Distance/Direction from Project Site	Comments
Momin Lodge 1918 Artesia Boulevard	0.59 miles west	This is an active State Response site undergoing cleanup with oversight by DTSC. Manufacturing activities had occurred on this site between the 1950s and 1990s; solvent releases during this time resulted in VOC contamination to soil, groundwater, and soil vapor beneath the property. Groundwater monitoring is ongoing at

[4] The search radius for due diligence purposes under ASTM E1527-21 is 1 mile for state response and federal response sites, and 0.50 miles for LUST sites.

Table 3.6-2. Summary of Cortese List Sites

Site Name and Address	Distance/Direction from Project Site	Comments
		the site; soil vapor extraction pilot studies have been completed. Groundwater flow is east-northeast, and recent groundwater monitoring data suggests impacts extend off site to the eastern-adjoining property (GSI 2023). However, based on the distance (greater than 0.50 miles) from the Project site, it is unlikely these impacts extend to and therefore impact the Project site.
ALS Industries 1942 Artesia Boulevard	0.64 miles west	This site was identified as a possible contributor to contamination identified both upgradient (see Freeman Products/Avnet Inc.) and downgradient (see Momin Lodge). However, investigations conducted by DTSC determined no releases had occurred at this stie, and closure was received in 2013. As such, this site does not likely impact the environmental conditions of the Project site.
Freeman Products/ Avnet Inc. 2040 Artesia Boulevard	0.75 miles west	This is an active State Response site undergoing cleanup with oversight by DTSC. Manufacturing activities occurred at the stie between 1963 to 1994, solvent releases during this time resulted in VOC contamination to soil, groundwater, and soil vapor beneath the property. With groundwater flow toward the east-northeast, VOC contamination has been identified both on and east of this site (Ramboll 2023). Based on the distance (0.75 miles) from the Project site, it does not appear these impacts extend to and therefore impact the Project site.
Prime Dry Cleaners 16402 Normandie Avenue	0.63 miles north	This is an active State Response site undergoing cleanup with oversight by DTSC. A Remedial Action Order (RAO) was issued for this site due to historical industrial uses and the likely presence of tetrachloroethylene (PCE) contamination on the site (DTSC 2022c). No investigations have been conducted since the RAO was issued. While contamination is likely present, this site's location and distance from the Project site indicate it is not likely to impact the environmental conditions of the Project site.
Carlin Foods Corp.	0.32 miles north	These LUST sites have all received regulatory closure, indicating remedial actions have

Table 3.6-2. Summary of Cortese List Sites

Site Name and Address	Distance/Direction from Project Site	Comments
16911 Normandie Avenue	0.40 miles west	occurred to the satisfaction of the overseeing regulatory agency (Los Angeles Regional Water Quality Control Board). While contamination may be allowed to remain in some closure cases, it does not typically impact off-site locations. Based on the distance from the Project site and the regulatory status of the LUST cases, it is unlikely these sites have impacted the environmental condition of the Project site.
Chevron 9-2445 17400 Western Avenue	0.45 miles west	
ARCO 1235 1800 Artesia Boulevard		

Non-Cortese List Hazardous Materials Sites

Dudek also reviewed other online databases that provide environmental information on release and cleanup cases in the State of California. While these databases are not included in the Cortese List, they may provide additional information regarding potential environmental contamination on the Project site. Table 3.6-3 provides a summary of the databases searched.

Table 3.6-3. Online Database Listings

Database	Details
California Environmental Protection Agency (CalEPA) https://siteportal.calepa.ca.gov/nsite/	The CalEPA Regulated Site Portal is a website that combines data about environmentally regulated sites and facilities in California into a single, searchable database and interactive map. Data sources include California Environmental Reporting System (CERS), EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), and Toxics Release Inventory (TRI).
Department of Toxic Substance Control (DTSC) EnviroStor https://www.envirostor.dtsc.ca.gov/	The DTSC's data management system for tracking cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known contamination or sites where there may be reasons for further investigation.

Table 3.6-3. Online Database Listings

Database	Details
Regional Water Quality Control Board (RWQCB) GeoTracker http://geotracker.waterboards.ca.gov/	The California RWQCB's data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. GeoTracker contains records for sites that require cleanup, various unregulated projects, and permitted facilities. Sites include LUSTs, Department of Defense, Cleanup Program, Irrigated Lands, Oil and Gas Production, Permitted USTs, and Land Disposal Sites.
National Pipeline Mapping System https://www.npms.phmsa.dot.gov/	The National Pipeline Mapping System Public Map Viewer is a web-based application designed to assist the general public with displaying and querying data related to gas transmission and hazardous liquid pipelines, liquefied natural gas plants, and breakout tanks under Department of Transportation Pipeline and Hazardous Material Safety Administration jurisdiction.
California Geologic Energy Management (CalGEM) Well Finder https://maps.conservation.ca.gov/doggr/wellfinder/	CalGEM Well Finder is a web-based application that plots reported locations and other information for oil and gas wells and other types of related facilities across California.
CalRecycle Solid Waste Information System (SWIS) https://www2.calrecycle.ca.gov/SolidWaste/Site/Search	The SWIS database contains information on solid waste facilities, operations, and disposal sites throughout the State of California.

The Project site was identified as a land disposal site in the GeoTracker database under "Gardena Sumps Site." The listing is related to the land dumping of oil in the sumps on the Project site, which are discussed in Section 3.6.1.2.

Multiple cleanup sites and regulatory permitting sites were identified within 1 mile of the Project site. Based on regulatory status, type and extent of contamination at these sites, and distance from the Project site, no additional contamination was identified that could have impacted the environmental condition of the Project site.

One idle oil and gas well was identified on the CalGEM Well Finder database, located approximately 500 feet southeast of the Project site. Well logs indicate the well was abandoned in 1925. The Project site location was also evaluated in the Los Angeles County Solid Waste Information Management System (SWIMS) database to determine the need for methane mitigation (LADPW 2023). The site was identified as "not within 300 feet of an oil or gas well or 1,000 feet of a methane producing site. A methane mitigation system may not be required."

3.6.1.4 Schools

A search for existing and proposed schools was conducted to identify K-12 schools within 0.25 miles of the Project site (GreenInfo 2021; CDE 2023). Moneta Continuation High School, 17951 South Budlong Avenue, is located 0.13 miles southeast of the Project site. This school campus includes the Gardena Early Education Center (1350 W 177th Street) and the high school sports fields.

3.6.2 Relevant Plans, Policies, and Ordinances

Federal

U.S. Environmental Protection Agency

Title 40 USC, Chapter 1, Subchapter I, Parts 260-265 – Solid Waste Disposal Act/Federal Resource Conservation and Recovery Act of 1976. The Solid Waste Disposal Act, as amended and revised by the Resource Conservation and Recovery Act (RCRA), establishes requirements for the management of solid wastes (including hazardous wastes), landfills, USTs, and certain medical wastes. The statute also addresses program administration; implementation and delegation to the states; enforcement provisions and responsibilities; and research, training, and grant funding. Provisions are established for the generation, storage, treatment, and disposal of hazardous waste, including requirements addressing generator record keeping, labeling, shipping paper management, placarding, emergency response information, training, and security plans.

Title 40 USC, Chapter 1, Subchapter I, Part 273 – Universal Waste. This regulation governs the collection and management of widely generated waste, including batteries, pesticides, mercury-containing equipment, and bulbs. This regulation streamlines the hazardous waste management standards and ensures that such waste is diverted to the appropriate treatment or recycling facility.

Title 40 USC, Chapter 1, Subchapter D, Part 112 – Oil Pollution Prevention. Oil Pollution Prevention regulations require the preparation of a Spill Prevention, Control, and Countermeasure (SPCC) Plan if oil is stored in excess of 1,320 gallons in aboveground storage (or have a buried capacity of 42,000 gallons). SPCC regulations place restrictions on the management of petroleum materials and, therefore, have some bearing on hazardous materials management.

Title 40 USC, Chapter 1, Subchapter C, Part 61 – National Emission Standards for Hazardous Air Pollutants, Subpart M – National Emission Standard for Asbestos. This regulation established National Emission Standards for Hazardous Air Pollutants (NESHAP) and names asbestos-containing material (ACM) as one of these materials. ACM use, removal, and disposal are regulated by USEPA under this law. In addition, notification of friable ACM removal prior to a proposed demolition project is required by this law.

Title 42 USC, Chapter 116 – Emergency Planning and Community Right-to-Know Act. The Emergency Planning and Community Right-to-Know Act (EPCRA) provides for public access to information about chemical hazards. The EPCRA and its regulations included in Title 40 U.S.C.

Parts 350-372 establish four types of reporting obligations for facilities storing or managing specified chemicals: emergency planning, emergency release notification, hazardous chemical storage reporting requirements, and toxic chemical release inventory. USEPA maintains a database, termed the Toxic Release Inventory, which includes information on reportable releases to the environment.

Title 15 USC, Chapter 53, Subchapter I, Section 2601 et seq. – Toxic Substances Control Act of 1976. The Toxic Substances Control Act (TSCA) of 1976 empowers USEPA to require reporting, record-keeping, and testing, as well as to place restrictions on the use and handling of chemical substances and mixtures. This regulation phased out the use of asbestos and ACM in new building materials and also sets requirements for the use, handling, and disposal of ACM as well as for lead-based paint (LBP) waste. As discussed above, USEPA has also established NESHAP, which govern the use, removal, and disposal of ACM as a hazardous air pollutant and mandate the removal of friable ACM before a building is demolished and require notification before demolition. In addition to asbestos, ACM, and LBP requirements, this regulation also banned the manufacturing of polychlorinated biphenyls (PCBs) and sets standards for the use and disposal of existing PCB-containing equipment or materials.

Regional Screening Levels (RSLs)

The federal EPA provides regional screening levels for chemical contaminants to provide comparison values for residential and commercial/industrial exposures to soil, air, and tap water (drinking water). RSLs are available on the EPA's website and provide a screening level calculation tool to assist risk assessors, remediation project managers, and others involved with risk assessment and decision-making. RSLs are also used when a site is initially investigated to determine if potentially significant levels of contamination are present to warrant further investigation. In California, the Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) incorporated the EPA RSLs into the HERO human health risk assessment. HERO created Human Health Risk Assessment (HHRA) Note 3, which incorporates HERO recommendations and DTSC-modified screening levels (DTSC-SLs) based on review of the EPA RSLs. The DTSC-SL should be used in conjunction with the EPA RSLs to evaluate chemical concentrations in environmental media at California sites and facilities.

U.S. Department of Labor, Occupational Safety and Health Administration

Title 29 USC, Part 1926 et seq. – Safety and Health Regulations for Construction. These standards require employee training; personal protective equipment; safety equipment; and written procedures, programs, and plans for ensuring worker safety when working with hazardous materials or in hazardous work environments during construction activities, including renovations and demolition projects and the handling, storage, and use of explosives. These standards also provide rules for the removal and disposal of asbestos, lead, LBP, and other lead materials. Although intended primarily to protect worker health and safety, these requirements also guide general facility safety. This regulation also requires that an engineering survey be prepared prior to demolition.

Title 29 USC, Part 1910 et seq. – Occupational Safety and Health Standards. Under this regulation, facilities that use, store, manufacture, handle, process, or move hazardous materials are required to conduct employee safety training; inventory safety equipment

relevant to potential hazards; have knowledge on safety equipment use; prepare an illness prevention program; provide hazardous substance exposure warnings; prepare an emergency response plan and prepare a fire prevention plan.

U.S. Department of Transportation

Title 49 USC, Part 172, Subchapter C – Shipping Papers. The Department of Transportation established standards for the transport of hazardous materials and hazardous wastes. The standards include requirements for labeling, packaging, and shipping hazardous materials and hazardous wastes, as well as training requirements for personnel completing shipping papers and manifests.

State

California Unified Program for Management of Hazardous Waste and Materials

California Health and Safety Code (HSC), Division 20, Chapter 6.11, Sections 25404–25404.9 Sections – Unified Hazardous Waste and Hazardous Materials Management Regulatory Program. Under the California Environmental Protection Agency (CalEPA), the Department of Toxic Substances Control (DTSC) and Enforcement and Emergency Response Division (EERD) administer the technical implementation of California's Unified Program, which consolidates the administration, permit, inspection, and enforcement activities of several environmental and emergency management programs at the local level (DTSC 2024). Certified Unified Program Agencies (CUPAs) implement the hazardous waste and materials standards. This program was established under the amendments to the California HSC made by SB 1082 in 1994. The programs that make up the Unified Program are:

- Aboveground Petroleum Storage Act (APSA) Program
- Area Plans for Hazardous Materials Emergencies
- California Accidental Release Prevention (CalARP) Program
- Hazardous Materials Release Response Plans and Inventories (Hazardous Materials Business Plans, or HMBPs)
- Hazardous Material Management Plan (HMMP) and Hazardous Material Inventory Statements (HMIS)
- Hazardous Waste Generator and On-site Hazardous Waste Treatment (Tiered Permitting) Program
- Underground Storage Tank Program

The CUPA for the Project site is the Los Angeles County Fire Department, Health and Hazardous Materials Division (HHMD).

Title 19 CCR, Chapter 2, Subchapter 3, Sections 2729–2734/California HSC Division 20, Chapter 6.95, Sections 25500–25520. This regulation requires the preparation of an HMBP by facility operators. The HMBP identifies the hazards, storage locations, and storage quantities for each hazardous chemical stored on site. The HMBP is submitted to the CUPA

for emergency planning purposes. The Project site is currently subject to these requirements, and there is an HMBP in place.

Hazardous Waste Management

Title 22 CCR, Division 4.5 – Environmental Health Standards for the Management of Hazardous Waste. In the State of California, the Department of Toxic Substances Control (DTSC) regulates hazardous wastes. These regulations establish requirements for the management and disposal of hazardous waste in accordance with the provisions of the California Hazardous Waste Control Act and federal RCRA. As with federal requirements, waste generators must determine if their wastes are hazardous according to specified characteristics or lists of wastes. Hazardous waste generators must obtain identification numbers; prepare manifests before transporting waste off site; and use only permitted treatment, storage, and disposal facilities. Standards also include requirements for record keeping, reporting, packaging, and labeling. Additionally, while not a federal requirement, California requires that hazardous waste be transported by registered hazardous waste transporters.

In addition, Chapter 31 – Waste Minimization, Article 1 – Pollution Prevention and the Hazardous Waste Source Reduction and Management Review of these regulations require that generators of 12,000 kilograms/year of typical, operational hazardous waste evaluate their waste streams every 4 years and, as applicable, select and implement viable source reduction alternatives. This Act does not apply to non-typical hazardous waste, including ACM and PCBs, among others.

Title 22 California HSC, Division 20, Chapter 6.5 – California Hazardous Waste Control Act of 1972. This legislation created the framework under which hazardous wastes must be managed in California. It provides for the development of a state hazardous waste program (regulated by DTSC) that administers and implements the provisions of the federal RCRA program. It also provides for the designation of California-only hazardous wastes and development of standards that are equal to or, in some cases, more stringent than, federal requirements. The CUPA is responsible for implementing some elements of the law at the local level.

Human Health Risk Assessment Note 3 – DTSC-Modified Screening Levels (DTSC-SLs). HHRA Note Number 3 presents recommended screening levels (derived from the EPA RSLs using DTSC-modified exposure and toxicity factors) for constituents in soil, tap water, and ambient air. The DTSC-SL should be used in conjunction with the EPA RSLs to evaluate chemical concentrations in environmental media at California sites and facilities.

Aboveground and Underground Petroleum Storage Tanks

Title 22 California HSC, Division 20, Chapter 6.67, Sections 25270 to 25270.13 – Aboveground Petroleum Storage Act. This law applies if a facility is subject to SPCC regulations under Title 40 U.S.C. Part 112, or if the facility has 10,000 gallons or more of petroleum in any or combination of ASTs and connecting pipes. If a facility exceeds these criteria, it must prepare a SPCC plan.

Low-Threat Underground Storage Tank (UST) Case Closure Policy. This policy applies to petroleum UST sites subject to Chapter 6.7 of the Health and Safety Code. This policy establishes both general and media-specific criteria. If both the general and applicable media-specific criteria are satisfied, then the leaking UST case is generally considered to present a low threat to human health, safety and the environment. This policy recognizes, however, that even if all of the specified criteria in the policy are met, there may be unique attributes of the case or site-specific conditions that increase the risk associated with the residual petroleum constituents. In these cases, the regulatory agency overseeing corrective action at the site must identify the conditions that make case closure under the policy inappropriate.

Regional Water Boards and local agencies have been directed to review all cases in the petroleum UST Cleanup Program using the framework provided in this policy. These case reviews shall, at a minimum, include the following for each UST case:

1. Determination of whether or not each UST case meets the criteria in this policy or is otherwise appropriate for closure based on a site-specific analysis.
2. If the case does not satisfy the criteria in this policy or does not present a low-risk based upon a site-specific analysis, impediments to closure shall be identified.
3. Each case review shall be made publicly available on the State Water Board's GeoTracker web site in a format acceptable to the Executive Director.

Environmental Cleanup Levels

Environmental Screening Levels

Environmental Screening Levels (ESLs) provide conservative screening levels for over 100 chemicals found at sites with contaminated soil and groundwater. They are intended to help expedite the identification and evaluation of potential environmental concerns at contaminated sites. The ESLs were developed by San Francisco Bay Regional Water Quality Control Board; however, they are used throughout the state. While ESLs are not intended to establish policy or regulation, they can be used as a conservative screening level for sites with contamination. Other agencies in California currently use the ESLs (as opposed to RSLs). In general, the ESLs could be used at any site in the State of California, provided all stakeholders agree (SFBRWQCB 2019). In recent experience, regulatory agencies in various regions use ESLs as regulatory cleanup levels. The ESLs are not generally used at sites where the contamination is solely related to a leaking underground storage tank (LUST); those sites are instead subject to the Low-Threat Underground Storage Tank Closure Policy.

California Integrated Waste Management Board

Title 14 CCR, Division 7, Chapter 8.2 – Electronic Waste Recovery and Recycling Act of 2003. This regulation sets requirements regarding the use and disposal of hazardous substances in electronics. When discarded, the DTSC considers the following materials manufactured before 2006 to be hazardous waste: cathode ray tube devices, liquid crystal display (LCD) desktop monitors, laptop computers with LCD displays, LCD televisions, plasma televisions, and portable DVD Players with LCD screens.

California Department of Transportation/California Highway Patrol

Title 13 CCR, Division 2, Chapter 6. California regulates the transportation of hazardous waste originating or passing through the state. The California Highway Patrol (CHP) and the California Department of Transportation (Caltrans) have primary responsibility for enforcing federal and state regulations and responding to hazardous materials transportation emergencies. CHP enforces materials and hazardous waste labeling and packing regulations that prevent leakage and spills of material in transit and provides detailed information to cleanup crews in the event of an incident. Vehicle and equipment inspection, shipment preparation, container identification, and shipping documentation are all part of the responsibility of CHP. CHP conducts regular inspections of licensed transporters to ensure regulatory compliance. Caltrans has emergency chemical spill identification teams at locations throughout the state. Hazardous waste must be regularly removed from generating sites by licensed hazardous waste transporters. Transported materials must be accompanied by hazardous waste manifests.

Occupational Safety and Health

Title 8 CCR – Safety Orders. Under the California Occupational Safety and Health Act of 1973, the California Occupational Safety and Health Administration (Cal/OSHA) is responsible for ensuring safe and healthful working conditions for California workers. Cal/OSHA assumes primary responsibility for developing and enforcing workplace safety regulations in Title 8 of the CCR. Cal/OSHA hazardous substances regulations include requirements for safety training, availability of safety equipment, hazardous substance exposure warnings, and emergency action and fire prevention plan preparation. Cal/OSHA also enforces hazard communication program regulations, which contain training and information requirements, including procedures for identifying and labeling hazardous substances. The hazard communication program also requires that Material Safety Data Sheets be available to employees and that employee information and training programs be documented.

In Division 1, Chapter 4, Subchapter 4 – Construction Safety Orders of Title 8, construction safety orders are listed and include rules for demolition, excavation, explosives work, working around fumes and vapors, pile driving, vehicle and traffic control, crane operation, scaffolding, fall protection, and fire protection and prevention, among others.

Cal/OSHA Asbestos and Carcinogen Unit enforces asbestos standards in construction, shipyards, and general industry. This includes identification and removal requirements of asbestos in buildings, as well as health and safety requirements of employees performing work under the Asbestos-In-Construction regulations 8 CCR 1529. Only a Cal/OSHA-Certified Asbestos Consultant (CAC) can provide asbestos consulting (as defined by the Business and Professions Code, 7180–7189.7, and triggered by the same size and concentration triggers as for registered contractors). These services include building inspection, abatement project design, contract administration, supervision of site surveillance technicians, sample collection, preparation of asbestos management plans, and clearance air monitoring.

Asbestos and Air Quality

Enforcement of the NESHAP Regulation, HSC Section 39658(b)(1). The California Air Resources Board (CARB) is responsible for overseeing compliance with the federal Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAPs) in Los Angeles County. The Asbestos NESHAP Program enforces compliance with the federal National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulation for asbestos and investigates all related complaints, as specified by HSC Section 39658(b)(1). Of the 35 air districts in California, 16 of these districts do not have an asbestos program in place. In these "non-delegated" districts, a demolition/renovation notification is required for compliance with the Asbestos NESHAP. (This notification is not equivalent to a permit.) CARB reviews and investigates the notifications. The program also administers two annual statewide asbestos NESHAP task force meetings for air districts and US EPA to facilitate communication and enforcement continuity and assists US EPA in training district staff to enforce the asbestos NESHAP.

Contractors State License Board

The California Department of Consumer Affairs Contractors State License Board manages the licensing of asbestos abatement contractors.

Lead-Based Paint

The California Department of Public Health enforces lead laws and regulations related to the prevention of lead poisoning in children, prevention of lead poisoning in occupational workers, accreditation and training for construction-related activities, lead exposure screening and reporting, disclosures, and limitations on the amount of lead found in products. Accredited lead specialists are required to find and abate lead hazards in a construction project and to perform lead-related construction work in an effective and safe manner. The specific regulations are as follows:

California Health and Safety Code Sections 124125 to 124165. Declared childhood lead exposure as the most significant childhood environmental health problem in the state. Established the Childhood Lead Poisoning Prevention Program and instructed it to continue to take steps necessary to reduce the incidence of childhood lead exposure in California.

California Health and Safety Code Sections 105275 to 105310. Reaffirmed California's commitment to lead poisoning prevention activities; provided CDPH with broad mandates on blood lead screening protocols, laboratory quality assurance, identification and management of lead exposed children, and reducing lead exposures.

California Health and Safety Code Section 105250. Establishes a program to accredit lead-related construction training providers and certify individuals to conduct lead-related construction activities.

California Civil Code Section 1941.1; California Health and Safety Code Sections 17961, 17980, 124130, 17920.10, 105251 to 105257. Deems a building to be in violation of the State Housing Law if it contains lead hazards and requires local enforcement agencies to enforce provisions related to lead hazards. Makes it a crime for a person to engage in

specified acts related to lead hazard evaluation, abatement, and lead-related constructions courses, unless certified or accredited by the Department. Permits local enforcement agencies to order the abatement of lead hazards or issue a cease and desist order in response to lead hazards.

California Civil Code Sections 1102 to 1102.16. Requires the disclosure of known lead-based paint hazards upon sale of a property.

California Education Code Sections 32240 to 322450. Implemented a lead poisoning prevention and protection program for California schools for a survey to ascertain risk factors that predicted lead contamination in public schools. The survey was completed in 1998. Findings of the survey are under Materials and Products.

California Labor Code Sections 6716 to 6717. Provides for the establishment of standards that protect the health and safety of employees who engage in lead-related construction work, including construction, demolition, renovation, and repair.

California Health and Safety Code Sections 116875 to 116880. Requires the use of lead-free pipes and fixtures in any installation or repair of a public water system or in a facility where water is provided for human consumption.

California Health and Safety Code Sections 105185 to 105197. Establishes an occupational lead poisoning prevention program to register and monitor laboratory reports of adult lead toxicity cases, monitor reported cases of occupational lead poisoning to ascertain lead poisoning sources, conduct investigations of take-home exposure cases, train employees and health professionals regarding occupational lead poisoning prevention, and recommended means for lead poisoning prevention.

California Building Standards Commission

Title 24 of the CCR – California Building Standards Code. The California Building Standards Code is a compilation of three types of building standards from three different sources:

- Building standards that have been adopted by state agencies without change from building standards contained in national model codes;
- Building standards that have been adopted and adapted from the national model code standards to meet California conditions; and
- Building standards, authorized by the California legislature, that constitute extensive additions not covered by the model codes that have been adopted to address particular California concerns.

Among other rules, the Code contains requirements regarding the storage and handling of hazardous materials. The Chief Building Official at the local government level (i.e., City of Gardena/Los Angeles County) must inspect and verify compliance with these requirements prior to issuance of an occupancy permit.

California Accidental Release Prevention Program

Similar to the EPA Risk Management Program, the California Accidental Release Prevention (CalARP) Program (19 CCR 2735.1 et seq.) regulates facilities that use or store regulated substances, such as toxic or flammable chemicals, in quantities that exceed established thresholds. Under the regulations, industrial facilities that handle hazardous materials above threshold quantities are required to prepare and submit a hazardous materials business plan (HMBP) to the local CUPA via the California Environmental Reporting System. As part of the HMBP, a facility is further required to specify applicability of other state regulatory programs. The overall purpose of CalARP is to prevent accidental releases of regulated substances and reduce the severity of releases that may occur. The CalARP Program meets the requirements of the EPA Risk Management Program, which was established pursuant to the Clean Air Act Amendments.

California Dig Alert

CA Government Code 4216. In accordance with CA Government Code 4216.2, an excavator planning to conduct an excavation shall notify the appropriate regional notification center of the intent to excavate between 2 and 14 calendar days prior to excavation activities. When the excavation is proposed within 10 feet of a "high priority subsurface installation," which includes high pressure natural gas and petroleum pipelines, the operator of the high priority subsurface installation shall notify the excavator of the existing of the installation and set up an on-site meeting to determine actions required to verify location and prevent damage to the installation. The excavator shall not begin excavating until the on-site meeting is complete.

Local

South Coast Air Quality Management District

Rule 1403: Work Practice Requirements for Asbestos. SCAQMD Rule 1403 governs work practice requirements for asbestos in all renovation and demolition activities. The rule includes requirements for asbestos surveying, notifications, ACM removal procedures, schedules, handling and clean-up procedures, and storage, disposal, and landfill requirements for waste materials. All operators are also required to maintain records and use appropriate labels, signs, and markings.

Rule 1466: Control of Particulate Emissions from Soils with Toxic Air Contaminants. SCAQMD Rule 1466 is designed to minimize the amount of off-site fugitive dust emissions containing toxic air contaminants by reducing particulate emissions in ambient air during earth-moving activities. The rule applies to any owner or operator conducting earth-moving activities of soil with toxic air contaminants. Operators must apply appropriate management practices to reduce potential air emissions.

Rule 403: Dust Control Information. SCAQMD Rule 403 applies to any activity capable of generating fugitive dust, including earth-moving activities, and requires best available dust control measures to be applied during activities capable of generating fugitive dust. Operations on properties of 50 or more acres, or any earth-moving activities with daily throughput of 3,850 cubic meters ore more three times in one 365-day period are considered

large operations, and have additional requirements, including notifications and reports to be submitted to SCAQMD, and require trained personnel to oversee operations.

Rule 1166: Volatile Organic Compound Emissions from Decontamination of Soil. SCAQMD Rule 1166 sets requirements to control the emissions of VOCs during excavation, grading, handling and treating VOC-contaminated soil. Persons who plan to excavate underground storage tanks or associated piping shall follow requirements set forth in the Rule, including permitting, notification, and air monitoring. Additionally, rules apply to persons handling VOC-contaminated soils, including segregation, wetting to reduce dust, and visual inspections of stockpiles.

Los Angeles County Building Code

Title 26, Chapter 1, Section 110: Prohibited Uses of Building Sites. Section 110.4 states permits shall not be issued for new buildings or enclosed structures, additions, or conversions of a building or structure adjacent to or within 300 feet of an active, abandoned, or idle oil or gas well unless an engineered plan is prepared to ensure such wells are properly operated and maintained, or are abandoned. No permits shall be issued until proper documentation is submitted.

Section 110.5 states permits shall not be issued for new buildings or enclosed structures, additions, or conversions of a building or structure on contaminated soil unless designed by a professional engineer. Such design, or report evaluating the conditions of the site, shall contain information on the investigation and recommendation to prevent accumulation of hazardous materials and gases within the structure. The final structure shall be reviewed and approved by the design engineer with a statement attesting the building has been constructed in accordance with recommendations to address contaminated soil issues.

Los Angeles County General Plan

Safety Element

The purpose of the Safety Element is to reduce the potential risk of death, injuries, and economic damage resulting from natural and human-made hazards. The Safety Element works in conjunction with the Operational Area Emergency Response Plan (OAERP), which is prepared by the County's Chief Executive Office – Office of Emergency Management (CEO OEM). CEO OEM also prepares the All-Hazard Mitigation Plan, which provides policy guidance for minimizing threats from natural and human-made hazards and has been approved by FEMA and California Emergency Management Agency (CalEMA). The Safety Element includes policies for fire-related land use and building regulations in Los Angeles County, which specifically pertain to properties in Very High Fire Hazard Severity Zones.

The Safety Element also includes policies for emergency response within Los Angeles County. Emergency services within the County are provided by the Los Angeles County Fire Department and Los Angeles County Sheriff's Department, in cooperation with local agencies. For the Project site, Los Angeles County Fire Department is first responders for fire and hazardous material emergencies. The

nearest fire stations are Station 79, 18030 S Vermont Avenue, Gardena, and Station 158, 1650 W 162nd Street, Gardena.

Los Angeles County Methane Zones

Los Angeles County Code Title 26, Sections 110.3, 110.4, and 110.5, amended by Ordinance No. 2019-0056: Methane Mitigation Standards. The County of Los Angeles, Department of Public Works (DPW), has developed methane policies and mitigation standards for construction within designated methane zones. Policies include construction and mitigation requirements when potential gas hazards are within 1,000 feet of fill sites containing disposable materials, within 300 feet of a nearby oil and gas wells, or on contaminated soils. The policies also include standard specifications for methane gas mitigation.

Gardena General Plan

The Public Safety Plan portion of the Gardena General Plan is designed to identify potential hazards that can significantly impact the City. Policies focus on protecting life and property from hazardous conditions, with emphasis on emergency preparedness and response (City of Gardena 2022).

PS Goal 4: Protect Public Health, Safety, and the Environment from Exposure to Hazardous Materials and Other Dangers.

Policy PS4.1: Sensitive Receptors. Ensure that the storage, processing, and transfer of hazardous materials are not located in areas that could potentially harm residents and other sensitive receptors (i.e., schools, parks, hospitals) and are adequately buffered from environmentally sensitive areas.

Policy PS4.2: Alternative Sources. Encourage and support innovative technologies that treat and dispose of hazardous waste or use alternative sources to hazardous materials.

Policy PS4.3: Updated Inventory. Maintain an updated inventory of businesses that handle, store, process, and transport hazardous materials and waste within the City.

Policy PS4.4: Planning Procedures. Maintain planning procedures for the handling and transportation of hazardous materials and ensure that the procedures are in compliance with applicable county, state and federal regulations.

Policy PS4.5: Land Uses. Require a conditional use permit for land uses that generate, use, store, or process hazardous materials.

Gardena Municipal Code

Gardena Municipal Code Title 18, Section18.42.200 lists pre-permit requirements required before acquiring permits for new construction. Included in these requirements are adherence to air quality regulations, including SCAQMD Rule 403 for fugitive dust, Rule 1113 for architectural coatings, Rule 1403 for asbestos-containing materials, and Regulation XIII for nitrogen oxide emissions. Additionally, construction and demolition waste recycling plans must be submitted for review and approval by the City's building division.

3.6.3 Project Design Features

PDF-HAZ-1: Remedial Action of the Gardena Sumps Site. ARC will coordinate with the Applicant to implement the Final RAP. The Final RAP includes: (a) excavation of degraded and soil-sludge mixture; (b) consolidation of this excavated mixture above the Cooper North and Cooper South Sumps; (c) grading for excavated areas; (d) grading and installation, maintenance, and repair of an engineered cap over the Cooper North and Cooper South sumps, including stabilization, foundation, low hydraulic conductivity and erosion resistance layers; (e) installation of a retaining wall system along the north side of the Haack sump; (f) installation, operation, maintenance and repair of a soil vapor control and monitoring system that will include soil vapor probes and associated infrastructure; (g) installation, operation, maintenance and repair of a groundwater monitoring system; and (h) restoration of vegetation and site conditions. The Final RAP will be implemented before the Applicant commences construction of the proposed Project. The portion of the proposed Project site that overlaps the sump areas and the top of the engineered cap will be paved and utilized as a parking lot. The Applicant will undertake measures to protect the remedy during site operation. As part of the Final RAP, a land use covenant will be established for the site to prohibit sensitive uses thereon, such as residential uses, but will permit the Proposed Project's commercial and industrial uses, as well as the City's temporary uses. The Applicant will comply with all institutional controls that DTSC may require as part of the ongoing use of the site, except for those assigned to ARC as part of its Final RAP.

PDF-HAZ-2: Vapor Intrusion Mitigation. The Applicant will install a soil vapor barrier and ventilation systems beneath the proposed structure to protect building occupants against indoor soil vapor intrusion. Vapor barrier systems will meet guidelines described in the Vapor Intrusion Mitigation Advisory published by DTSC and CalEPA in 2011 (VIMA). Vapor barriers will be designed to meet the standards outlined in the VIMA and will be in general conformance with General Construction, Membrane Installation, and Ventilation Trench for Passive Gas Control System Requirements of the Los Angeles County Methane Gas Mitigation Standards. The system will include a vapor barrier membrane and passive sub-slab venting system. The system will be designed by a California-licensed engineer. Monitoring probes will be installed below the barrier system, to evaluate the effectiveness of the system. An OM&M Plan will be prepared to define the ongoing sampling required to confirm the vapor intrusion mitigation system (VIMS) is operating as designed. The OM&M Plan will include a decision tree and contingency plans in the event unexpected conditions are identified.

3.6.4 Thresholds of Significance

The significance criteria used to evaluate the Project impacts related to hazards and hazardous materials are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to hazards and hazardous materials would occur if the Project would:

1. Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

2. Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?
3. Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?
4. Be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?
5. For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?
6. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?
7. Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

Based on the results of the Initial Study prepared for the Project (Appendix A), the Project would result in no impacts related to safety hazards from close proximity to an airport and less-than-significant impacts regarding interference with an adopted emergency response or evacuation plan and exposure of people or structures to wildland fires. As such, the following thresholds are evaluated in this section of the Draft EIR:

HAZ-1. Would the Project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

HAZ-2. Would the Project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

HAZ-3. Would the Project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

HAZ-4. Would the Project be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

3.6.5 Impact Analysis

Threshold HAZ-1. Would the Project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Construction

Construction of the Project would include demolition of the existing buildings and hardscape on the west side of the Project site. The east side of the Project site, which contains the Gardena Sumps, will be remediated by ARC in accordance with PDF-HAZ-1 prior to Project construction. Construction

of the east side of the Project site would only include paving and painting, as necessary, to create the proposed parking lot; the Applicant's construction would not interfere or damage the engineered cap. With implementation of PDF-HAZ-1, hazardous materials beneath the Project site caused by the Gardena Sumps would not be impacted by proposed Project construction, and these materials would not impact construction activities or construction workers.

Based on information obtained from the Phase I ESA (Appendix G1), the industrial buildings on the west side of the Project site have been present since at least the 1970s, some may have been constructed as early as the 1950s. Based on the age of the structures, there is a potential for asbestos-containing materials, lead-based paints, and other hazardous building materials to be present in the existing buildings. Hazardous building materials could include mercury thermometers and switches, fluorescent bulbs, and polychlorinated biphenyl (PCB)-containing ballasts. Demolition of the buildings and transportation and disposal of the building materials could cause a release to the environment if they are present in the existing buildings, resulting in a potentially significant impact absent mitigation. All projects that involve commercial or industrial building renovations are required to comply with applicable federal, state, and local requirements, as summarized below.

1. For asbestos: South Coast Air Quality Management District (SCAQMD) Rule 1403; Cal/OSHA Asbestos and Carcinogen Unit; California Department of Public Health; California Department of Resources, Recycling, and Recovery (CalRecycle); and EPA National Emission Standards for Hazardous Air Pollutants (NESHAP).
2. For lead: California Labor Code Sections 6716 to 6717; CCR, Title 8, Section 1532.1 et seq.; CCR, Title 17, Section 35001 et seq.; Los Angeles County Environmental Health Lead Program; and EPA Lead Renovation, Repair, and Painting Rule
3. For universal wastes: DTSC universal waste rules; CalRecycle; and EPA Solid Waste Rules (40 CFR Part 273)

Because lead and hazardous building materials surveys are not explicitly required by law prior to demolition of a building, there is the potential for significant impacts associated with the release of these materials. As such, to reduce potentially significant impacts, a survey will be required in accordance with **MM-HAZ-1**. Hazardous building materials identified in the survey will be managed in accordance with the rules and regulations outlined above. Demolition debris that contains hazardous materials would be segregated and disposed of or recycled off site. Transportation and disposal of these materials would be done in accordance with federal, state, and local laws and regulations. Material disposal and recycling would be completed at the closest available facilities to reduce travel times and distances.

Construction of the west side of the Project site would also include grading and excavation for utilities and the building foundation and footings. The Phase II ESA (Appendix G2) identified small areas of diesel contamination above risk-based screening levels (ESLs) for construction and commercial exposure, and gasoline-range organics and PCE concentrations in soil vapor above ESLs for commercial exposure. Excavation and relocation/removal of these soils could result in hazards to the public or environment such that impacts would be potentially significant if the contaminated soil is not appropriately managed. Due to this contamination, and as recommended in the Phase II ESA, a soil management plan (SMP) shall be prepared in accordance with **MM-HAZ-2**. The SMP will include processes and procedures for managing contaminated soils and will include health and safety and

monitoring procedures for contaminated soil vapor. Handling, transportation, and disposal of contaminated soils will be done in accordance with federal, state, and local laws and regulations.

Hazardous materials that may be used during construction and demolition activities of the proposed Project include gasoline, diesel fuel, oil, lubricants, grease, welding gases (e.g., acetylene, oxygen, and argon), solvents, and paints. These materials would be used and stored in designated construction staging areas within the boundaries of the Project site and would be transported, handled, and disposed of in accordance with all applicable federal, state, and local laws and regulations. The use of these materials for their intended purpose would not pose a significant risk to the public or environment. Hazardous wastes accumulated during Project construction may include unused or off-specification paint and primer, paint thinner, solvents, and vehicle- and equipment-maintenance-related materials, many of which can be recycled. Empty containers for such materials (e.g., drums and totes) may also be returned to vendors, if possible, and would otherwise be removed from the Project site upon completion of the Project's construction. Hazardous waste that cannot be recycled would be transported by a licensed hazardous waste hauler using a Uniform Hazardous Waste Manifest and disposed of at an appropriately permitted facility. The use of these substances is subject to applicable federal, state, and local health and safety laws and regulations that are intended to minimize health risk to the public associated with hazardous materials.

During construction, if hazardous materials and/or petroleum products are stored on the Project site above applicable regulatory thresholds, the applicable documents and plans will be submitted accordingly. These thresholds include those outlined in the Hazardous Material Business Plan rules (California Health and Safety Code, Division 20, Chapter 6.95, Article 1; 19 CCR, Division 2, Chapter 4) and Spill Prevention, Control, and Countermeasure Plan rules (SPCC; 40 CFR, Chapter 1, Subchapter D, Part 112). Appropriate plans would be prepared as required by regulation and submitted as required to the local Certified Unified Program Agency, which for the Project site is the LACoFD and kept on site through construction of the Project (SPCC Plans are not submitted to a regulatory agency). BMPs and spill prevention and response procedures required by these rules would be implemented.

With implementation of **MM-HAZ-1** and **MM-HAZ-2**, and adherence to applicable federal, state, and local rules and regulations, impacts due to routine use and transportation of hazardous materials during construction of the proposed Project would be **less than significant with mitigation incorporated**.

Operation

Operation of the proposed Project would include self-storage, warehouse, and office/retail space. The parking lot area in the northeast corner could also be used for special events, such as food trucks, farmer's markets, car shows, live entertainment, food giveaways, and mobile vaccination events. Daily operations are anticipated to include maneuvering forklifts, lift equipment, and large semi-trucks through and around the site and backing into the loading docks. As with construction, hazardous materials handled and stored during Project operation would be required to comply with applicable laws, rules and regulations depending on applicable storage thresholds. Implementation of PDF-HAZ-1 would also prevent hazardous materials below the surface from impacting people on site and the environment. Hazardous material handling in excess of applicable regulatory thresholds would require creation of emergency response plans, implementation of secondary containment, spill prevention and response procedures, and reporting to the local response agencies. While actual

future occupants are unknown at this time, each occupant would also be required to comply with the same applicable environmental laws, rules and regulations. As such, routine handling and transportation of hazardous materials as part of proposed Project operation would result in **less-than-significant** impacts with compliance with applicable laws, rules and regulations.

Threshold HAZ-2. Would the Project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Construction

As discussed under Threshold HAZ-1, demolition of the on-site structures without proper hazardous material mitigation could result in the release of hazardous materials to the environment. This would be mitigated with implementation of **MM-HAZ-1**. Excavation of contaminated soils could result in a release of hazardous constituents in soil and soil vapor; this would be mitigated with implementation of **MM-HAZ-2**. Also discussed in Threshold HAZ-1, hazardous materials handled during construction in reportable quantities would be reported, permitted, and handled in accordance with applicable local and state laws and regulations. These permits and associated material handling, control, and spill countermeasure plans are designed to prevent releases of hazardous materials, and how to immediately respond to and contain a hazardous material release, should it occur. Hazardous materials required for construction would not be handled on site in such quantities that a reasonably foreseeable upset or accident condition would likely occur. Also, with implementation of PDF-HAZ-1, hazardous materials beneath the Project site caused by the Gardena Sumps would not be impacted by proposed Project construction, and these materials would not impact construction activities or construction workers. With implementation of **MM-HAZ-1** and **MM-HAZ-2** and adherence to federal, state, and local rules and regulations, impacts during construction due to reasonably foreseeable upset and accident conditions involving the release of hazardous materials to the environment would be **less than significant with mitigation** incorporated.

Operation

As discussed in Threshold HAZ-1, the Phase II ESA identified elevated concentrations of PCE and gasoline-range organics in soil vapors above ESLs for commercial exposure scenarios. Operation of the proposed Project without appropriate vapor intrusion mitigation could result in upset and accident conditions releasing these hazardous materials to the environment. PDF-HAZ-2 outlines vapor intrusion mitigation that would be included in building design and would include monitoring post construction to verify appropriate operation. Special events held in the northeastern portion of the subject property would not involve long-term placement of occupied spaces, and as such vapor intrusion is not a concern in this area. Additionally, as outlined in PDF-HAZ-1, operation of the proposed Project would not interfere with or negatively impact the remedy implemented by ARC on the eastern side of the Project site and would prevent the hazardous materials below surface from impacting people on site and the environment. The land use covenant implemented as part of PDF-HAZ-1 would further reduce or eliminate the potential for future releases from subsurface contaminants by requiring compliance with institutional controls to protect the elements of the RAP, such as the engineered cap and prohibit sensitive uses such as residences and schools. Similar to construction, operations that use hazardous materials above applicable thresholds would be required to prepare and implement spill prevention and response procedures, and, if required, report

to local regulatory agencies. With PDF-HAZ-1 and PDF-HAZ-2 and adherence to applicable rules and regulations, accident and upset causing releases of hazardous materials during operation of the proposed Project would be **less than significant with mitigation** incorporated.

Threshold HAZ-3. Would the Project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

As outlined in the RAP, which would be implemented as PDF-HAZ-1, the chosen remedy for the Gardena Sumps site includes limited excavation and capping of the former oil sumps. This remedy was chosen as it would reduce the potential for emissions of hazardous materials. Details of this analysis can be reviewed in the RAP (Appendix G3). Protections in place as part of PDF-HAZ-1 (implementation of the RAP), PDF-HAZ-2 (vapor intrusion mitigation), MM-HAZ-1 (abatement of hazardous materials before demolition), and MM-HAZ-2 (soil management plan) all have an element of emission reduction and would prevent impacts to people on site and the environment. Construction and earthmoving activities would also be regulated under SCAQMD Rules 1166, 403, and 1466, which further reduce fugitive dusts and emissions during earthmoving activities on sites with contaminated soils. Operations at the Project site would be held to rules and regulations, as well as land use requirements established by the City and County. Acutely hazardous material and waste handling is not anticipated to occur during Project construction or operation, as these are not typically associated with proposed construction or operation. Impacts would be **less than significant with mitigation** incorporated.

Threshold HAZ-4. Would the Project be located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

As discussed in previous sections, the Project site is located on the Gardena Sumps site, which is a State Response Site listed in accordance with Government Code Section 65962.5 (Cortese List site). PDF-HAZ-1 includes remediation of the Gardena Sumps site under DTSC regulatory oversight. The implementation of the RAP, the institutional controls that DTSC has required, and the land use covenant that requires compliance with these controls and prohibits sensitive uses on the Project Site, which form a part of PDF-HAZ-1, would ensure that future site use and operations do not result in a release of hazardous materials. Construction and operation of the proposed Project would not begin until the RAP has been implemented by the installation of this remedy's essential elements, such as the engineered cap and soil vapor probes. MM-HAZ-2 would also provide further protection in the event contaminated soil and groundwater are encountered during construction following implementation of the RAP by requiring proper on-site treatment or off-site disposal of such impacted soil or groundwater. Operation would include vapor mitigation as outlined in PDF-HAZ-2, which would prevent indoor soil vapor intrusion, further reducing impacts due to subsurface contamination associated with the site's location on the Cortese List. With implementation of PDF-HAZ-1 and PDF-HAZ-2, and MM-HAZ-2, impacts would be **less than significant with mitigation**.

3.6.6 Mitigation Measures

MM-HAZ-1 Pre-Demolition Hazardous Materials Abatement. Demolition or renovation plans and contract specifications shall incorporate abatement procedures for the survey and

removal of materials containing asbestos, lead, polychlorinated biphenyls, hazardous materials, hazardous wastes, and universal waste items. All abatement work shall be done in accordance with federal, state, and local regulations, including those of the U.S. Environmental Protection Agency (which regulates disposal), Occupational Safety and Health Administration, U.S. Department of Housing and Urban Development, California Occupational Safety and Health Administration (which regulates employee exposure), and the South Coast Air Quality Management District.

MM-HAZ-2 Soil Management Plan. Prior to commencement of any earthmoving activities, a Soil Management Plan (SMP) shall be developed that addresses potential impacts in soil and soil vapor from releases on or near the Project site. The SMP shall include training procedures for identification of contamination. The SMP shall describe procedures for assessment, characterization, management, and disposal of contaminated soils in accordance with all applicable state and local regulations, including SCAQMD Rules 1466, 403, and 1166. The SMP shall include health and safety measures, which may include but are not limited to periodic work breathing zone monitoring and monitoring for volatile organic compounds using a handheld organic vapor analyzer in the event impacted soils are encountered during excavation activities. The Applicant or its designee shall implement the SMP during construction activities for the proposed Project. As the site is currently under regulatory oversight by DTSC and shall likely have a land use covenant in place at the time of construction, the SMP shall be submitted to DTSC for review and approval prior to earthmoving activities.

3.6.7 Level of Significance After Mitigation

Thresholds HAZ-1, HAZ-2, HAZ-3 and HAZ-4. MM-HAZ-1 would require abatement of hazardous building materials prior to demolition, removing these materials for appropriate off-site disposal. Removal of these materials before construction activities would reduce the potential for releases of hazardous materials during routine activities and due to upset/accident conditions to levels that are **less than significant**.

MM-HAZ-2 requires preparation and implementation of an SMP, which would outline proper procedures for handling, stockpiling, transportation, and disposal of contaminated soils. The SMP would also outline health and safety and monitoring for contaminated soil vapor during earthmoving activities. Controls and practices implemented by the SMP would reduce the potential for releases of hazardous materials during construction activities and due to upset/accident conditions to levels that are **less than significant**.

3.6.8 Cumulative Effects

Because cumulative projects would be fully regulated, thus reducing potential for public safety risks, cumulative impacts associated with exposure to hazards and hazardous materials would be less than significant. Through mitigation and compliance with regulatory requirements, the construction or operation of the proposed Project itself would not create significant human or environmental health or safety risks that could combine with other project impacts to create a significant and cumulatively

considerable impact. For these reasons, the proposed Project **would not result in cumulatively considerable impacts** related to hazards and hazardous materials.

3.6.9 References

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3.7 Hydrology and Water Quality

This section describes the existing hydrology and water quality conditions of the Project site and vicinity, identifies associated regulatory requirements, evaluates potential impacts, cumulative impacts, and identifies mitigation measures related to implementation of the proposed 1450 Artesia Specific Plan Project (Project or proposed Project).

Information contained in this section is based in part on the Preliminary Hydrology and Low Impact Development (LID) Report, which was prepared for the Project site by Kimley Horn on April 12, 2024 (Appendix H). Other documentation used in this analysis includes mapping compiled by the Federal Emergency Management Agency (FEMA) as well as the sources listed in Section 3.7.8, References.

3.7.1 Existing Conditions

This section describes the existing conditions on the Project site and vicinity and identifies the resources that could be affected by the Project.

Regional Watershed

The Project is located within the Dominguez Channel Watershed, which covers approximately 70,000 acres and is located in the southern portion of the Los Angeles Basin. Approximately 43,400 acres of the watershed drains to the 15.7-mile-long Dominguez Channel, which begins in Hawthorne and discharges into the East Basin of the Los Angeles Harbor. The remaining approximately 26,600 acres, which include Wilmington Drain and Machado Lake, drain directly to the Los Angeles Harbor independently of Dominguez Channel. Over 90% of the watershed is developed. Residential use covers about 41%, and another 44% is industrial, commercial, and transportation-related. Overall, the watershed is approximately 61% impervious. Constructed waterways are predominant; however, some small, natural creeks are located in the hills of the Palos Verdes Peninsula (LA Sanitation 2023). The Dominguez Channel is located approximately 150 feet south of the Project boundary.

Topography

The Project site and surrounding area are characterized as an urban, developed commercial and residential area, with limited pervious surfaces. The developed portion of the Project site on the western side is at an elevation of approximately 29 feet above mean sea level (amsl) with a slight gradient towards the south southeast. The current grade ranges from about elevation 38 feet amsl in the southern portion of the site to about 19 feet amsl along the east edge of the site. The eastern portion of the site where the former sump disposal areas (also known as the Gardena Sumps or Cooper and Haack Sumps) were located, appears to currently be at an elevation that is a few feet below the surrounding grade.

Existing Drainage Conditions

The existing 6.53-acre Project site is currently partially developed with a mix of uses that includes a variety of trailer storage structures that include several small businesses and a residential single-family home building. However, the tributary runoff area for the Project site extends south and east

into the LA County Flood Control (LACFD) and Southern Pacific Railroad property, which increases the total analysis area to 8.37 acres. According to the Preliminary Drainage report, the total impervious and pervious areas are 5.05 acres and 3.32 acres, respectively, or 60% impervious (Appendix H). This calculation considers the existing conditions of the site prior to implementation of the final Remediation Action Plan. The Project site is divided into two drainage management areas (DMAs) in a generally low-lying coastal plain that is relatively flat with gentle drainage to the northwest (DMA 1) and northeast (DMA 2). Ultimately, on-site drainage discharges to the Dominguez Channel, south of the site.

The Los Angeles County Department of Public Works (LACDPW) Hydrology Manual requires that a storm drain conveyance system be designed for a 25-year storm event (Q25) and that the combined capacity of a storm drain and street flow system accommodate flow from a 50-year storm event (Q50) due to the sump condition created by the proposed development. The existing site peak flows generated for the site for storm events ranging for the 50-year peak flow rate is shown in Table 3.7-1, Existing Hydrology Results (Appendix H).

Table 3.7-1. Existing Hydrology of the Project Site

Storm Event	Existing (Peak Flow Rate cfs)	Volume (cu-ft)
50-Year (DMA 1)	9.6	49,686
50-Year (DMA 2)	11.1	59,938

Notes: cfs = cubic feet per second; cu-ft = cubic feet; DMA = drainage management area.

Surface Water Quality

Stormwater runoff is a significant contributor to local and regional pollution. Urban stormwater runoff is the largest source of unregulated pollution in the waterways and coastal areas of the United States. Federal, state, and regional regulations require the City of Gardena (City) to control the discharge of pollutants to the storm drain system, including the discharge of pollutants from construction sites and areas of new development or significant development.

The Project site is located in the Dominguez Channel and Los Angeles/Long Beach Harbors Watershed Management Area, which is characterized by a generally low topographic gradient. The Dominguez Channel drains a highly industrialized area with numerous sources of pollution resulting from polycyclic aromatic hydrocarbons and contains remnants of persistent legacy pesticides, including dichlorodiphenyltrichloroethane (DDT), as well as polychlorinated biphenyls, all of which contribute to poor sediment quality both within the channel and in downstream Inner Harbor areas. Although highest in the Dominguez Channel Estuary and Inner Harbor Consolidated Slip sediments, DDT has historically been present throughout the harbor. Oil pumping has a historical presence in the area, and there are existing wells still in operation. Metals remain elevated at some locations in the sediments of the Inner Harbor. The Dominguez Channel is listed on the Clean Water Act Section 303(d) list as impaired due to the prevalence of bacteria and other microbes, metals, and total toxic chemicals (EPA 2023).

In accordance with state policy for water quality control, the Los Angeles Regional Water Quality Control Board (RWQCB) employs a range of beneficial use definitions for surface waters, groundwater basins, marshes, and mudflats that serve as the basis for establishing water quality objectives and

discharge conditions and prohibitions. The Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties (LARWQCB 2014) has identified existing and potential beneficial uses supported by the key surface water drainages throughout its jurisdiction. The existing and proposed beneficial uses of water bodies downstream of the Project site (previously described) include groundwater recharge, warm freshwater habitat, water contact recreation, and non-contact water recreation; potential uses include municipal and domestic supply, industrial service supply, and wildlife habitat.

Once a water body has been listed as impaired on the 303(d) list, a total maximum daily load (TMDL) for the constituent of concern (pollutant) must be developed for that water body. A TMDL is an estimate of the daily load of pollutants that a water body may receive from point sources, non-point sources, and natural background conditions (including an appropriate margin of safety), without exceeding its water quality standards. Those facilities and activities that are discharging into the water body, collectively, must not exceed the TMDL. In general, dischargers within each watershed are collectively responsible for meeting the required reductions and other TMDL requirements by an assigned deadline. TMDLs that have been established for the Dominguez Channel, Dominguez Channel Estuary, and Los Angeles Inner/Outer Harbor, based on amendments from the initial 2012 adoption, include cadmium, chromium, copper, mercury, lead, zinc, chlordane, dieldrin, toxaphene, DDT, PCBs, certain PAH compounds, benthic community effects and toxicity (LARWQCB 2022).

Enhanced Watershed Management Program

Based on the Enhanced Watershed Management Program Work Plan, Dominguez Channel Watershed Management Area (City of Los Angeles 2015), available receiving water monitoring data was used to evaluate potential stormwater and non-stormwater discharge data. Water quality data was obtained from the LACDPW, Port of Los Angeles, and City of Los Angeles Department of Public Works, Bureau of Sanitation. Monitoring data were available from the Dominguez Channel, Dominguez Channel Estuary, the Consolidated Slip (of the Los Angeles Inner Harbor), the Inner Harbor, Outer Harbor, Fish Harbor, and the Wilmington Drain. The assessment of discharge quality is considered tentative pending completion of a Coordinated Integrated Monitoring Program. The data was compared to water quality criteria to evaluate the number of exceedances. Water quality data from the Dominguez Channel and Torrance lateral included exceedances of dissolved metal, toxicity, diazinon, ammonia, cyanide, dissolved oxygen, *E. coli*, and fecal coliform. Point sources include stormwater and urban runoff flowing through municipal separate storm sewer systems (MS4s), as well as other MS4 discharges, such as those from refineries, generating plants, port operations, and the Terminal Island Water Reclamation Plant, which discharges into the Outer Harbor. Nonpoint sources include contaminated sediments already in receiving waters and atmospheric deposition.

The Dominguez Channel Watershed Management Area also contains two Superfund sites, which have historically been large contributors of organic pollutants, including the Montrose Chemical Corporation site and the Del Amo Facility site. The water quality issues identified for the Dominguez Channel and Los Angeles Harbor are expected to be addressed with best management practices (BMPs) to address existing TMDLs. Regional stormwater management plans were evaluated in an effort to identify whether planned projects met Enhanced Watershed Management Plan criteria for regional projects and represent feasible implementation options. The Dominguez Channel Watershed Management Plan Group then incorporated applicable BMPs into the Enhanced Watershed Management Plan, thus replacing the previous plans, to address the various TMDLs. The Enhanced

Watershed Management Plan identifies projects to be implemented, including the following (City of Los Angeles 2015):

1. Minimum control measures, excluding implementation of low-impact development (LID) ordinances for new and re-development
2. LID ordinance implementation for new and re-development processed
3. Regional projects
4. Distributed projects, which are primarily green streets

The Enhanced Watershed Management Plan is part of an adaptive management process of the MS4 permit, which states that every 2 years, the plan will adapt to become more effective, based on progress achievements, re-evaluation of water quality priorities, and availability of new information. Currently, most of the projects identified in the Enhanced Watershed Management Plan are not explicitly funded from a dedicated revenue source. Obtaining funds for all of the activities identified in the plan is anticipated to take many years. A compliance schedule has been developed to address water quality issues, based on TMDL categories (City of Los Angeles 2015). As previously discussed, most of the TMDLs were delisted from the 303(d) list in 2012 (LARWQCB 2022), indicating that water quality has improved downstream of the Project site.

The Dominguez Channel Watershed Management Area Group has also established an outfall monitoring program associated with non-stormwater discharges, which is intended to be a collaborative effort between all of the agencies in the group. As specified in the Coordinated Integrated Monitoring Program, the Dominguez Channel Watershed Management Area Group will report non-stormwater discharges that occur in their jurisdiction and actions taken to evaluate if those discharges are persistent, exempt and, if non-exempt, actions taken and/or BMPs implemented to eliminate those discharges. Per Part III.2 of the MS4 Permit, “exempt non-stormwater discharges often include non-emergency firefighting activities, discharges from drinking water supplies, dewatering of lakes, landscape irrigation, swimming-pool discharges, decorative fountain dewatering, car washes, and street/sidewalk washing” (City of Los Angeles 2015).

Groundwater

Regionally, the Central Basin and the West Coast Groundwater Basin are the two main groundwater basins in the vicinity of the City of Gardena. Specifically, the Project site is underlain by the West Coast Groundwater Basin. The Newport-Inglewood Fault Zone serves as a water barrier separating the Central Basin and the West Coast Basin.

In accordance with the Sustainable Groundwater Management Act (SGMA), the California Department of Water Resources has classified groundwater basins in the state in regard to prioritizing a requirement to create and implement a Groundwater Sustainability Plan (GSP). Both the Central Basin and West Coast Basin have a very low priority regarding enacting a GSP (DWR 2023). In addition, both groundwater basins are adjudicated, in accordance with the West Coast Basin Judgment, and thus have a managed groundwater extraction rate, reducing the potential for over-extraction.

Development of the yield of the Central Basin is dependent on the use of local storm runoff, imported and recycled water for groundwater recharge, and the injection of imported water from the backside

of the Alamitos Seawater Intrusion Barrier. The Central Basin is replenished through subsurface flows from the San Gabriel Valley and precipitation that falls directly on the Montebello Forebay and percolates into the Basin.

Groundwater for the West Coast Basin originates from subsurface flow from the Central Basin and injection along with the seawater barrier system. Virtually all of the major rivers flowing through the Central and West Coast Basins have been developed into a comprehensive system of dams, flood control channels and percolation ponds for artificially recharging the basins. Los Angeles County studies have indicated that 90% of the rain and runoff in the county either percolates naturally into the ground or are captured in the flood control reservoirs for later release to recharge groundwater basins. The replenishment of Central and West Coast Basins with recycled water is an important source of water.

According to the Geotechnical Exploration for the Proposed Warehouse Redevelopment 1440 - 1462 Artesia Boulevard Gardena, California, dated February 4, 2022, which included drilling borings on site, groundwater was encountered at depths of between approximately 25 and 17 feet below ground surface (Appendix E). In addition, the California Geological Survey (CGS) performed a groundwater elevation evaluation for the Torrance Quadrangle within the alluvial soils and the historically shallowest groundwater depth is reported to be approximately 10 feet below ground surface (Appendix E). However, fluctuations of groundwater levels and the presence of localized zones of perched water are not uncommon and can be encountered during and following the rainy season.

Water Supply

Water supply in the City is provided by the Golden State Water Company (GSWC) Southwest District, which serves more than 54,000 customers (54,994 according to the 2020 UWMP) in Southwest Los Angeles County, including all of Gardena and Lawndale, and portions of Carson, Compton, El Segundo, Hawthorne, Inglewood, Redondo Beach, and unincorporated Athens, Del Aire, El Camino Village, Lennox and Gardena Heights (GSWC 2021).

Water delivered to customers in the Southwest System, as defined above, is a blend of groundwater pumped from the West and Central Coast Groundwater Basins and imported water from the Colorado River Aqueduct and State Water Project (imported and distributed by Metropolitan Water District of Southern California). GSWC owns 13 active groundwater wells, which pump from the Central and West Coast subbasins of the Coastal Plain of Los Angeles Groundwater Basin (GSWC 2021). GSWC has a total Allowed Pumping Allocation (APA) of 16,439 acre-feet per year (AFY) for all seven service areas subject to the Central Basin Adjudication. The West Coast Basin adjudication limit for groundwater extraction across the entire basin is 64,468 AFY of which GSWC maintains legal right to 7,502 AFY as its Annual Production Allowance (APA) (GSWC 2021).

Historically, GSWC has been able to reliably serve customers' water supply needs from year to year. However, interrupted or significantly reduced water supply, such as a during a drought or as a result of an earthquake, could threaten this reliability. In addition to the direct supply sources from the two groundwater basins and purchased water, GSWC has some flexibility in the management of groundwater so as to move APA in accordance with the rules governing the adjudicated supplies (GSWC 2021). All of these supplies are available in normal, single dry, and five consecutive dry years.

In addition, GSWC maintains a water shortage contingency plan, which addresses long-term drought scenarios, as well as catastrophic supply interruptions that could occur suddenly.

Regional imported water supplies are conjunctively managed by the Central and West Basin Municipal Water Districts, and the Metropolitan Water District of Southern California. GSWC coordinates its urban water management planning with each of these entities. During an actual or threatened temporary shortage of imported water to the West Basin Municipal Water District, the Water Replenishment District of Southern California is authorized by the West Coast Basin Judgment to enter into agreements with water purveyors in the basin, which allow the over-extraction of groundwater. This authorized over-extraction can last for 4 months and may be used to produce a maximum of 10,000 acre-feet of water. According to the 2020 UWMP, however, GSWC projects that it will be able to serve 100% of projected demands in normal, single-dry and multiple-dry years until 2045 (GSWC 2021).

Flood Hazards

Flooding problems in Los Angeles County can range from a few isolated areas where a number of streets are flooded to inundation of residences and businesses causing substantive damage (City of Gardena 2023). Historically, there have been 16 flooding events that documented property damage, injuries, and/or fatalities since 1994 (City of Gardena 2023). However, according to the City's Hazard Mitigation Plan, the City is not prone to urban flooding and has not experienced a large-scale flood event (City of Gardena 2023).

Although the Dominguez Channel, located just south of the Project site, is designated as Zone A, a Special Flood Hazard Area (without base flood elevation), no portion of the Project site is located within a Special Flood Hazard Area (i.e., 100-year flood zone) (FEMA 2023). The Project site as well as much of the entire City is located outside the 500-year flood zone where there is an annual 0.2% chance of a flooding event occurring (City of Gardena 2022).

Flooding can also occur due to catastrophic failure of a dam and is considered to be the most likely cause of flooding within the City (City of Gardena 2023). Although the City has never been previously impacted by a dam failure, there have been at least 85 dam failures across California in recorded history. According to mapping compiled by the California Department of Safety of Dams, the City of Carson is not within an identified dam inundation map (DSOD 2023).

3.7.2 Relevant Plans, Policies, and Ordinances

Federal

Clean Water Act

Increasing public awareness and concern for controlling water pollution led to the enactment of the federal Water Pollution Control Act Amendments of 1972. As amended in 1977, this law became commonly known as the Clean Water Act (CWA) (33 USC 1251 et seq.). The objective of the CWA is to restore and maintain the chemical, physical, and biological integrity of the waters of the United States. The CWA established basic guidelines for regulating discharges of pollutants into the waters

of the United States. The CWA requires that states adopt water quality standards to protect public health, enhance the quality of water resources, and ensure implementation of the CWA.

Section 303 of the Clean Water Act (Beneficial Use and Water Quality Objectives)

The Los Angeles RWQCB is responsible for the protection of the beneficial uses of waters within the proposed Project area in Los Angeles County. The Los Angeles RWQCB uses its planning, permitting, and enforcement authority to meet its responsibilities adopted in the Basin Plan to implement plans, policies, and provisions for water quality management.

In accordance with state policy for water quality control, the Los Angeles RWQCB employs a range of beneficial use definitions for surface waters, groundwater basins, marshes, and mudflats that serve as the basis for establishing water quality objectives and discharge conditions and prohibitions. The Basin Plan for the Los Angeles Region has identified existing and potential beneficial uses supported by the key surface water drainages throughout its jurisdiction. Under CWA Section 303(d), the State of California is required to develop a list of impaired water bodies that do not meet water quality standards and objectives. A TMDL defines how much of a specific pollutant/stressor a given water body can tolerate and still meet relevant water quality standards. The Los Angeles RWQCB has developed TMDLs for select reaches of water bodies.

Section 402 of the Clean Water Act (National Pollutant Discharge Elimination System)

The CWA was amended in 1972 to provide that the discharge of pollutants to waters of the United States from any point source is unlawful unless the discharge is in compliance with a National Pollutant Discharge Elimination System (NPDES) permit. The NPDES permit program, as authorized by Section 402 of the CWA, was established to control water pollution by regulating point sources that discharge pollutants into waters of the United States (33 USC 1342). In the State of California, the EPA has authorized the State Water Resources Control Board (SWRCB) permitting authority to implement the NPDES program.

Regulations (Phase II Rule) that became final on December 8, 1999, expanded the existing NPDES Program to address stormwater discharges from construction sites that disturb land equal to or greater than 1.0 acre and less than 5.0 acres (small construction activity). The regulations also require that stormwater discharges from small MS4s be regulated by an NPDES General Permit for Stormwater Discharges Associated with Construction Activity, Order No. 99-08-DWQ. The Construction General Permit requires the development and implementation of a Stormwater Pollution Prevention Plan (SWPPP), which describes BMPs the discharger would use to protect stormwater runoff. The SWPPP must contain a visual monitoring program, a chemical monitoring program for "non-visible" pollutants to be implemented if there is a failure of BMPs, and a sediment-monitoring plan if the site discharges directly to a water body listed on the 303(d) list for sediment. Routine inspection of all BMPs is required under the provisions of the Construction General Permit. On September 2, 2009, the SWRCB issued a new NPDES General Permit for Stormwater Associated with Construction Activities (Order No. 2009-0009-DWQ as amended by 2010-0014-DWQ and 2012-0006-DWQ, NPDES No. CAS000002) that became effective July 1, 2010.

National Flood Insurance Program

The National Flood Insurance Act of 1968 established the National Flood Insurance Program in order to provide flood insurance within communities that were willing to adopt floodplain management programs to mitigate future flood losses. The Act also required the identification of all floodplain areas within the United States and the establishment of flood-risk zones within those areas. FEMA is the primary agency responsible for administering programs and coordinating with communities to establish effective floodplain management standards. FEMA is responsible for preparing flood insurance rate maps that delineate the areas of known special flood hazards and their risk applicable to the community. The program encourages the adoption and enforcement by local communities of floodplain management ordinances that reduce flood risks. In support of the program, FEMA identifies flood hazard areas throughout the United States on FEMA flood hazard boundary maps.

Federal Antidegradation Policy

The Federal Antidegradation Policy (40 CFR 131.12) requires states to develop statewide antidegradation policies and identify methods for implementing those policies. Pursuant to the Code of Federal Regulations, state antidegradation policies and implementation methods shall, at a minimum, protect and maintain: (1) existing in-stream water uses; (2) existing water quality where the quality of the waters exceeds levels necessary to support existing beneficial uses, unless the state finds that allowing lower water quality is necessary to accommodate economic and social development in the area; and (3) water quality in waters considered an outstanding national resource.

State

Sustainable Groundwater Management Act

On September 16, 2014, Governor Jerry Brown signed into law a three-bill legislative package—Assembly Bill 1739 (Dickinson), Senate Bill 1168 (Pavley), and Senate Bill 1319 (Pavley)—collectively known as the Sustainable Groundwater Management Act (SGMA), which requires governments and water agencies of high- and medium-priority basins to halt overdraft and bring groundwater basins into balanced levels of pumping and recharge. Under SGMA, these basins should reach sustainability within 20 years of implementing their sustainability plans. For critically over-drafted basins, sustainability should be achieved by 2040. For the remaining high- and medium-priority basins, 2042 is the deadline. Through SGMA, California Department of Water Resources provides ongoing support to local agencies through guidance, financial assistance, and technical assistance. SGMA empowers local agencies to form Groundwater Sustainability Agencies (GSAs) to manage basins sustainably and requires those GSAs to adopt GPS for crucial (i.e., medium- to high-priority) groundwater basins in California.

California Porter-Cologne Water Quality Control Act

Since 1973, the California SWRCB and its nine RWQCBs have been delegated the responsibility for administering permitted discharge into the waters of California. The Project falls within the Los Angeles RWCQB. The Porter-Cologne Water Quality Act (California Water Code Section 13000 et seq.; CCR, Title 23, Chapter 3, Chapter 15) provides a comprehensive water-quality management system for the protection of California waters. Under the Act, “any person discharging waste, or proposing to

discharge waste, within any region that could affect the quality of the waters of the state" must file a report of the discharge with the appropriate RWQCB. Pursuant to the act, the RWQCB may then prescribe "waste discharge requirements" that add conditions related to control of the discharge. Porter-Cologne Water Quality Act defines "waste" broadly, and the term has been applied to a diverse array of materials, including non-point source pollution. When regulating discharges that are included in the federal CWA, the state essentially treats Waste Discharge Requirements and NPDES as a single permitting vehicle. In April 1991, the SWRCB and other state environmental agencies were incorporated into the California Environmental Protection Agency.

The RWQCB regulates urban runoff discharges under the NPDES permit regulations. NPDES permitting requirements cover runoff discharged from point (e.g., industrial outfall discharges) and nonpoint (e.g., stormwater runoff) sources. The RWQCB implements the NPDES program by issuing construction and industrial discharge permits.

Under the NPDES permit regulations, BMPs are required as part of a SWPPP. The EPA defines BMPs as "schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of Waters of the United States." BMPs include "treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage" (40 CFR 122.2).

California Antidegradation Policy

The California Antidegradation Policy, otherwise known as the Statement of Policy with Respect to Maintaining High-Quality Water in California, was adopted by the SWRCB (State Board Resolution No. 68-16) in 1968. Unlike the Federal Antidegradation Policy, the California Antidegradation Policy applies to all waters of the state (e.g., isolated wetlands and groundwater), not just surface waters. The policy states that whenever the existing quality of a water body is better than the quality established in individual basin plans, such high quality shall be maintained, and discharges to that water body shall not unreasonably affect present or anticipated beneficial use of such water resource.

California Toxics Rule

The EPA has established water quality criteria for certain toxic substances via the California Toxics Rule. The California Toxics Rule established acute (i.e., short-term) and chronic (i.e., long-term) standards for bodies of water, such as inland surface waters and enclosed bays and estuaries, that are designated by each RWQCB as having beneficial uses protective of aquatic life or human health.

California Water Code

The California Water Code includes 22 kinds of districts or local agencies with specific statutory provisions to manage surface water. Many of these agencies have statutory authority to exercise some forms of groundwater management. For example, a Water Replenishment District (Water Code Section 60000 et seq.) is authorized to establish groundwater replenishment programs and collect fees for that service, whereas a Water Conservation District (Water Code Section 75500 et seq.) can levy groundwater extraction fees. Through special acts of the Legislature, 13 local agencies have been granted greater authority to manage groundwater. Most of these agencies, formed since 1980, have the authority to limit export and control some in-basin extraction upon evidence of overdraft or

the threat of an overdraft condition. These agencies can also generally levy fees for groundwater management activities and for water supply replenishment.

Assembly Bill 3030 – Groundwater Management Act

In 1992, Assembly Bill 3030 was passed, which increased the number of local agencies authorized to develop a groundwater management plan and set forth a common framework for management by local agencies throughout California. These agencies could possess the same authority as a water replenishment district to "fix and collect fees and assessments for groundwater management" (Water Code Section 10754), provided they receive a majority of votes in favor of the proposal in a local election (Water Code Section 10754.3).

CALGreen

Formerly known as the California Green Building Standards Code, Title 24, Part 11, of the California Code of Regulations, CALGreen is designed to improve public health, safety, and general welfare by utilizing design and construction methods that reduce the negative environmental impact of development and to encourage sustainable construction practices. CALGreen provides mandatory direction to developers of all new construction and renovations of residential and non-residential structures with regard to all aspects of design and construction, including, but not limited to, site drainage design, stormwater management, and water use efficiency. Required measures are accompanied by a set of voluntary standards designed to encourage developers and cities to aim for a higher standard of development.

Local

Municipal National Pollutant Discharge Elimination System Permit

The City is a co-permittee under the "Waste Discharge Requirements for Municipal Stormwater and Urban Runoff Discharges within the County of Los Angeles," issued by the Los Angeles RWQCB (Order No. R4-2021-0105), adopted July 23, 2021. This order applies to the following:

1. LACFCD;
2. Unincorporated areas of Los Angeles County under County jurisdiction, with the exception of a portion of Antelope Valley and the City of Avalon;
3. 84 cities within the LACFCD, with the exception of the City of Long Beach

This permit also serves as an NPDES permit under the federal CWA (NPDES No. CAS614001), as well as waste discharge requirements under California law (the Municipal NPDES Permit), and as a co-permittee under the Municipal NPDES Permit the City is required to adopt ordinances and implement procedures with respect to the entry of non-stormwater discharges into the MS4s.

The Los Angeles MS4 Order incorporates most of the pre-existing requirements of the previous 2001 Los Angeles MS4 Order, including the water quality-based requirement to not cause or contribute to exceedances of water quality standards in the receiving water. The Los Angeles MS4 Order also requires Permittees to comply with new water quality-based requirements to implement 33 watershed-based total maximum daily loads (TMDLs) for the region. The Order links both of these

water quality-based requirements to the programmatic elements of the Order by allowing Permittees to comply with the water quality-based requirements, in part, by developing and implementing a watershed management program (WMP) or enhanced watershed management program (EWMP).

Los Angeles County Low Impact Development Manual

The County of Los Angeles prepared the 2014 Low Impact Development Standards Manual (LID Standards Manual) to comply with the requirements of the NPDES MS4 Permit for stormwater and non-stormwater discharges from the MS4, within the coastal watersheds of Los Angeles County (CAS004001, Order No. R4-2012-0175), also known as the Los Angeles Water Quality Ordinance. This permit covers 84 cities, including Gardena, and the unincorporated areas of Los Angeles County. Under the permit, the LACFCD is designated as the principal permittee, and the county, along with 84 incorporated cities, is designated as a permittee. In compliance with the permit, the permittees have implemented a stormwater quality management program, with the ultimate goal of accomplishing the requirements of the permit and reducing the amount of pollutants in stormwater and urban runoff, wherein new development/redevelopment projects are required to prepare a LID report.

The Los Angeles County LID Standards Manual provides guidance for the implementation of stormwater quality control measures in new development and redevelopment projects in unincorporated areas of the county, with the intention of improving water quality and mitigating potential water quality impacts from stormwater and non-stormwater discharges. The LID Standards Manual addresses the following objectives and goals (LACPW 2014):

- Lessen the adverse impacts of stormwater runoff from development and urban runoff on natural drainage systems, receiving waters, and other water bodies
- Minimize pollutant loadings from impervious surfaces by requiring development projects to incorporate properly designed, technically appropriate BMPs and other LID strategies
- Minimize erosion and other hydrologic impacts on natural drainage systems by requiring development projects to incorporate properly designed, technically appropriate hydromodification control development and technologies

City of Gardena General Plan

The City of Gardena General Plan was adopted in 2006 and includes goals and policies within the required elements including the Public Safety Plan and the Conservation Plan. The Public Safety Plan within the General Plan for the City was updated in February 2022. The Conservation Plan was adopted in 2006. The following is a list of goals and policies applicable to the proposed Project relating to Hydrology and Water Quality:

Public Safety Plan

PS Goal 5. A community that is protected from flood hazards

PS 5.1: Regulatory Compliance. Coordinate with local, state, and federal agencies to ensure that the City's regulations related to flood control are in compliance with federal, state, and local standards.

PS 5.2: FEMA Coordination. Coordinate with the Federal Emergency Management Agency (FEMA) to ensure that Federal Insurance Rate Maps correctly depict flood hazards in *the City.*

PS 5.3: Municipal Code**.** Implement the standards and requirements defined in the *Municipal Code to reduce flood hazards and address flood-prone areas within the City.*

PS 5.4: California Building Code. Adhere to the latest building, site, and design codes in the California Building Code and FEMA flood control guidelines to avoid or minimize the risk of flooding hazards for new development in the City.

PS 5.5: Stormwater Runoff**.** Encourage new developments that add substantial amounts of impervious surfaces to integrate low impact development (LID) to reduce stormwater runoff**.**

Conservation Plan

CN Goal 2. Conserve and protect groundwater supply and water resources.

CN 2.1: Encourage water conservation through education and water-conserving technology**.**

CN 2.2: Comply with the water conservation measures set forth by the California Department of Water Resources**.**

CN 2.3: Promote the use of reclaimed water for irrigation of public lands and for industrial uses, as feasible**.**

CN 2.4: Increase the quantity and maintain the quality of the City's water table to provide an independent source of water**.**

CN 2.5: Encourage citizens to report illegal dumping and vigorously prosecute illicit dumping of toxic of hazardous materials into the ground water**.**

CN 2.6: Encourage and support the proper disposal of hazardous waste and waste oil. Monitor businesses that generate hazardous waste materials to ensure compliance with approved disposal procedures**.**

3.7.3 Thresholds of Significance

The significance criteria used to evaluate the Project impacts related to hydrology and water quality are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to hydrology and water quality would occur if the Project would:

1. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?
2. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

3. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:
    i. Result in substantial erosion or siltation on- or off-site;
    ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;
    iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or
    iv. Impede or redirect flood flows?
4. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?
5. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Based on the results of the Initial Study prepared for the Project (Appendix A), the Project would result in no impacts related to impeding or redirecting flood flows. The Project would result in less-than-significant impacts regarding violating any water quality standards that could degrade water quality, substantial erosion or siltation on or off site, substantially increasing the rate or amount of surface runoff such that flooding would occur, and risk of release of pollutants due to inundation from a tsunami or seiche. As such, the following thresholds are evaluated in this section of the Draft EIR:

HYD-1. Would the Project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin?

HYD-2. Would the Project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

HYD-3. Would the Project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

3.7.4 Impact Analysis

Threshold HYD-1. Would the Project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the Project may impede sustainable groundwater management of the basin?

Construction

The proposed Project would require the use of water for dust suppression during Project demolition, grading, and construction activities. The amount of water that would be required to control dust

during grading and construction would be relatively minimal and short-term such that it should not significantly impact existing groundwater supplies.

Operation

Once completed, the Project would require potable water to serve the Project site, water the landscaping and provide required fire flow. The City and the Project site would receive water service from the GSWC – Southwest Water System. According to the GSWC, the Southwest Water System is a blend of groundwater pumped from the adjudicated West and Central Coast Groundwater Basins and imported water from the Colorado River Aqueduct and State Water Project (imported and distributed by Metropolitan Water District of Southern California) (GSWC 2021). Additionally, GSWC has entitlement of groundwater resources in the West and Central Coast Groundwater Basins. Furthermore, GSWC leases additional water rights from entities that no longer pump groundwater but have entitlements, in the attempt to meet the increase in water demand from its service area. As such, GSWC currently has no immediate concern with the availability of water supply to the City and projected growth in its service area until 2045 (GSWC 2021). In addition, GSWC will continue its long range planning efforts to ensure future stability of service beyond 2045. Therefore, impacts associated with groundwater supplies would be **less than significant**, and no mitigation is required.

According to the Preliminary Hydrology and LID Report (Appendix H), development of the Project site with respect to the analysis area would increase the percentage of impervious surfaces from 60% to 67%. While this increase in impervious surfaces could reduce the amount of on-site groundwater recharge, the proposed Project would be required to meet the City's Storm Water Management and Discharge Control Ordinance, including Low Impact Development (LID) structural and nonstructural Best Management Practices (BMPs) and source control BMPs. Due to the legacy contaminants at the Project site, infiltration on site is not feasible. Additionally, given the limited surface area of landscaping in the proposed condition harvest and reuse is also considered not feasible. However, the LID Manual states that in the event a site is unable to retain 100% of the storm water quality design volume on site and implement harvest and reuse BMPs, a Biofiltration (BIO-1) BMP sized at 1.5-times the required mitigation volume is acceptable. The proposed Project would include a Modular Wetland System to treat stormwater runoff and meet water quality requirements and an on-site retention feature, or underground cistern, to mitigate the stormwater runoff volume for the design storm. Therefore, considering the modest increase of impervious surfaces in the analysis area from 60% to 67% combined with the implementation of required LID features, and the adjudication of the underlying groundwater basins, the potential impacts related to groundwater supplies and recharge would be **less than significant**, and no mitigation is required.

Threshold HYD-2. Would the Project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

The proposed Project would comply with existing local, state, and federal regulations related to drainage and runoff. Furthermore, according to the Preliminary Hydrology and LID Report (Appendix H), in order to maintain the 50-year storm event peak flow rate as calculated for the existing condition,

the Project would need to detain all incremental flow leaving the site in excess of the 9.6 CFS. The mitigated peak flow would be controlled via a sump pump that would discharge at the required existing flow rate. The total amount of detention needed to mitigate the increased flow is 1,952 cubic feet. Additionally, consistent with the County's LID Manual and the City's requirements, the biofiltration BMP sized at 1.5-times the required mitigation volume results in 25,139 cubic feet. To meet both Hydrology and LID requirements for the proposed Project, the detention requirements for both analyses are required to be summed to create a total on-site detention requirement. The total on-site detention for the Project shall be approximately 27,139 cubic feet. The detention required for hydrology purposes would be in excess of the LID requirement such that all 25,139 cubic feet of required LID detention would be stored for treatment prior to being stored for hydrology purposes. Therefore, proposed BMP features would accommodate the increase in flows due to site development and the potential impacts associated with stormwater drainage system capacity would be **less than significant**, and no mitigation is required.

Threshold HYD-3. Would the Project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

The Project site is located within the jurisdiction of the Los Angeles Regional Water Quality Control Board (RWQCB) Basin Plan (LARWQCB 2014). As noted above, the RWQCB regulates urban runoff discharges under the NPDES permit regulations. NPDES permitting requirements cover runoff discharged from point (e.g., industrial outfall discharges) and nonpoint (e.g., stormwater runoff) sources. The RWQCB implements the NPDES program by issuing construction and industrial discharge permits.

Under the NPDES permit regulations, BMPs are required as part of a SWPPP. The EPA defines BMPs as "schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of Waters of the United States." BMPs include "treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage" (40 CFR 122.2). Preparation and implementation of a SWPPP consistent with the NPDES General Construction Permit would be required for all construction activities and consistent with the objectives and policies of the Basin Plan.

During operation of the Project, the Project design plans would include drainage control features consistent with the City's Storm Water Management and Discharge Control Ordinance, including LID structural and nonstructural BMPs and source control BMPs, which is also consistent with the objectives and policies of the Basin Plan.

Compliance with these existing regulatory regional and local regulations related to water quality control plans would reduce potential water quality impairment of surface waters. Therefore, the proposed Project would not conflict with a water quality control plan, and impacts would be less than significant.

The Project site is located within the West Coast Groundwater Subbasin of the Coastal Plain of Los Angeles; however, water supply for the Project would be sourced from GSWC, which includes both the West Coast and Central Subbasins as water supply sources. According to the Department of Water Resources (DWR) in its designations pursuant to SGMA, both subbasins are considered very low priority because they are adjudicated and are not required to prepare and implement a

Groundwater Sustainability Plan. The adjudication limits the allowable annual extraction of groundwater per water rights holder within the basin in order to prevent seawater intrusion and an unhealthy groundwater level. As part of the adjudication, the court appointed the DWR to serve as Watermaster to account for all water rights and groundwater extraction amounts per year. As noted above, the GSWC in its 2020 UWMP determined that water supply reliability for projected demands and supplies until 2045 can be met in normal, single year, and multiple dry year scenarios. As a result, the proposed Project would not conflict or obstruct a sustainable groundwater management plan and the impact would be **less than significant**, and no mitigation is required.

3.7.5 Mitigation Measures

Impacts would be less than significant. As such, no mitigation measures are required.

3.7.6 Level of Significance After Mitigation

Potential impacts related to Hydrology and Water Quality with adherence to existing regulatory requirements would be less than significant with no mitigation required.

3.7.7 Cumulative Effects

The geographic context for the analysis of cumulative impacts associated with water quality is the encompassing Dominguez Channel and Los Angeles/Long Beach Harbors Watershed. Cumulative development in the watershed could include increases to impervious areas and new potential sources of pollutants in stormwater runoff. Construction activities associated with development could temporarily increase the number of exposed surfaces that could contribute to sediments in stormwater runoff. Additionally, materials associated with construction activities could be deposited on surfaces and carried to receiving waters in stormwater runoff. Continued development and redevelopment within the watershed could also increase the amount of impervious surface, which could increase stormwater runoff rates and amounts, as well as result in changes in land use that may increase the amount of pollutants in stormwater runoff. All cumulative development in the watershed would be subject to the existing regulatory requirements to protect water quality and minimize increases in stormwater runoff. For example, the Construction General Permit requires the development and implementation of a SWPPP for all construction sites larger than 1 acre to mitigate potential impacts to water quality from polluted stormwater runoff.

Every 2 years, the Los Angeles RWQCB must re-evaluate water quality within its geographic region and identify those water bodies not meeting water quality standards. For those impaired water bodies, a TMDL must be prepared and implemented to reduce pollutant loads to levels that would not contribute to a violation of water quality standards. All development within the Dominguez Channel and Los Angeles/Long Beach Harbors Watershed would be subject to the water quality standards outlined in the Basin Plan and must comply with any established TMDLs. The continuing review process would ensure that cumulative development within the watershed would not substantially degrade water quality.

Los Angeles County and other co-permittee cities within the Dominguez Channel and Los Angeles/Long Beach Harbors Watershed are subject to the requirements of their respective MS4 Permits. Currently,

the MS4 Permits require that the project designers and/or contractors of all new development and redevelopment projects that fall under specific priority project categories must develop WQMPs that include LID design requirements related to water quality. The LID features would address long-term effects on water quality within the watershed and ensure BMPs and LID designs minimize potential water quality concerns to the maximum extent practicable. Therefore, impacts associated with water quality standards and polluted runoff in the watersheds would be minimized and the proposed Project's contribution to cumulative impacts would not be cumulatively considerable.

Development of related cumulative projects would increase land use intensities in the water supply service area, resulting in increased water usage. As with the proposed Project, related cumulative projects would also include groundwater as a source of water supply. However, the GSWC's 2020 UWMP has planned for the provision of regional water during normal, dry, and multiple dry years. The plan uses regional population, land use plans, and projections of future growth as the basis for planning water system improvements (including water treatment plants) and demonstrating compliance with state water conservation goals and policies. As such, to the extent that related projects are generally consistent with regional growth patterns and projections, cumulative projects would not be expected to result in increased water usage causing the need for new entitlements, resources, and/or treatment facilities that are not already being planned to accommodate regional growth forecasts and would not deplete groundwater supplies.

Certain qualifying projects would be subject to water supply assessment requirements, which assess the sufficiency of supply for existing and future demands, to serve as evidentiary basis during CEQA review on such projects. Further, compliance with the CALGreen would be required for new developments. This would ensure that many of the related projects, as well as the proposed Project, do not result in wasteful or inefficient use of limited water resources and may in fact result in an overall decrease in water use per person. Due to water planning efforts and water conservation standards, impacts to groundwater supplies would be minimized and the contributions of the proposed Project to cumulative impacts **would not be cumulatively considerable**.

3.7.8 References

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LARWQCB. 2022. Amendment to the Water Quality Control Plan - Los Angeles Region to Revise the Total Maximum Daily Load for Toxic Pollutants in Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters, adopted October 13, 2022.

3.8 Land Use and Planning

This section describes the existing land use and planning conditions of the 1450 Artesia Specific Plan Project (Project) site and vicinity, and identifies associated regulatory requirements, thresholds of significance, impact analysis, cumulative impacts, and references. Information contained in this section is based on review of local, regional, and statewide policies and regulations encompassing the Project site, including the following:

- California State Planning and Zoning Law
- Southern California Association of Governments Connect SoCal (2020–2045 Regional Transportation Plan/Sustainable Communities Strategy)
- South Coast Air Quality Management District 2022 Air Quality Management Plan
- City of Gardena General Plan
- City of Gardena Municipal Code

3.8.1 Existing Conditions

City of Gardena

Gardena is a city of 5.9 square miles (3,749 acres) and approximately 60,000 residents in the inland South Bay region of the Los Angeles metropolitan area. The City of Gardena (City) is regionally accessible by several major freeways including Interstate (I) 405, I-110, I-105 and State Route (SR) 91 (Artesia Freeway). The City's sphere of influence is limited to the area within City limits (City of Gardena 2006a). The City is bordered by the unincorporated West Athens community and the city of Hawthorne to the north, the cities of Los Angeles and Torrance to the south, the city of Los Angeles to the east, and the cities of Torrance and Hawthorne and Los Angeles County to the west.

Proposed Project Site

The Project site is located at the corner of Artesia Boulevard and Normandie Avenue, two major thoroughfares within the City (Figure 2-1, Project Location). The 1450 Artesia Specific Plan would cover approximately 6.33 acres collectively consisting of the sites located on Assessor Parel Numbers 6106-036-010, 6106-036-012, 6106 036-034, 6106-036-035, 6106-036-036, 6106-036-037 (collectively, the Property). The Property currently contains three industrial structures (8,080 square feet, 825 square feet, and 3,159 square feet), a paved, open area along Artesia Boulevard (1450 Artesia Boulevard), and one occupied residential dwelling unit behind the industrial properties adjacent to the Dominguez Channel (1472 West Artesia Boulevard) (Figure 2-2, Project Footprint).

In 2004 the City completed a citywide retail analysis, which examined retail opportunities within and surrounding the City and summarized the opportunity for retail development at distinct locations within the City. The report found Artesia Boulevard offered a prime location for commercial development to attract quality commercial uses.

The City subsequently changed the General Plan land use designation for the majority of these properties from Industrial to General Commercial during the 2006 General Plan update. Additionally,

in 2006 the City adopted the Artesia Corridor Specific Plan to promote revitalization efforts within the area referred to as the Artesia Corridor. The Artesia Corridor Specific Plan's land use was described as "375,000 square feet of General Commercial, 40,000 square feet of restaurant, and up to 300 residential units on 44-acre area." The Artesia Corridor Specific Plan provided for a mix of residential and commercial uses. Mixed use residential and commercial has been developed within parts of the Artesia Corridor.

On February 15, 2023, the City Council adopted the 6th Cycle Housing Element for 2021 – 2029. At the same time, it also adopted Resolution No. 6620 updating the Land Use Plan, including changes to the Land Use Map, Urgency Ordinance No. 1847 amending the Zoning Code and revising the Zoning Map, and Resolution No. 6621 adopting a color palette for buildings, fences, and walls. The Resolution and Ordinance also rescinded the Artesia Corridor Specific Plan, changed the land use designation for five of the six areas in the Specific Plan, and rezoned all six Specific Plan areas. The property that is the subject of the proposed Project retained the land use designation of Specific Plan and the zoning was changed to 1450 Artesia Specific Plan with a notation that it would be developed for industrial and commercial uses once a specific plan was adopted. The 1450 Artesia Specific Plan area includes former Artesia Corridor Specific Plan Areas 4B and 5, including the approximately 0.23-acre parcel situated at the Project site's southwest corner that is currently occupied by one single-family residential dwelling unit.

The northeastern section of the Project site contains what is known as the Gardena Sumps. This area is contaminated with oil sludge contamination from three sumps. On June 17, 2022, the Department of Toxic Substances Control (DTSC) approved a Remedial Action Plan (RAP) for the Gardena Sumps on two properties (known as the Cooper and Haack properties), which was submitted by ARC. The RAP, which will be carried out by ARC, proposes excavation of impacted soils on a portion of the site, known as the Haack Rework Area, relocation of those contaminated soils to another portion of the site, known as the Cooper Sumps area, installation of an engineered cap with a specialized geosynthetic cover and clean soil cover over the Haack Sump and Cooper Sumps, and soil vapor probes. These areas are shown in Figure 2-3, Site Contamination. ARC will be submitting a Remedial Design Implementation Plan to DTSC, detailing the implementation of the RAP.

The northwestern portion of the Project site, which overlaps with the Haack property, currently contains a mix of uses totaling approximately 12,064 square feet and a variety of trailer-type storage structures that house several small businesses, including a U-Haul rental agency, a metal fabricating shop, a sandblasting and painting company and an auto body repair shop (Appendix G3). The southern portion of the Project site contains one residential dwelling unit. The Haack Rework area overlaps the northernmost portion of the two easternmost residential properties (Figure 2-2).

Surrounding Land Uses

The area north of the Project site across Artesia Boulevard consists of a strip mall with a variety of retail and fast-casual restaurant uses. Multi-family and single-family residential uses are located north of the strip mall. The eastern edge of the Project site is bounded by a Southern Pacific Railroad line. To the east of the Project site across Normandie Avenue is another strip mall with a variety of retail, fast food and fast casual restaurant uses. A row of single-family homes is also located to the east across Normandie Boulevard. Multi-family residential uses are located to the west of the Project site with another strip mall farther west. The southern side of the Project site is bounded by the Los

Angeles County Department of Public Works Dominguez Flood Channel. An equestrian stable is located south of the Channel.

3.8.2 Relevant Plans, Policies, and Ordinances

Federal

There are no federal regulations relevant to land use and planning that apply to the proposed Project.

State

California State Planning and Zoning Law

This law, which is codified in California Government Code Sections 65000–66037, delegates most of the state's local land use and development decisions to cities and counties. The California Government Code establishes specific requirements pertaining to the regulation of land uses by local governments, including General Plan requirements, Specific Plans, subdivisions, and zoning. California Government Code Section 65302 requires that all California cities and counties include the following seven elements in their General Plans:

- Land Use
- Circulation
- Housing
- Conservation
- Open Space
- Noise
- Safety

Cities and counties that have identified disadvantaged communities must also address environmental justice in their General Plans, including air quality.

Sustainable Communities and Climate Protection Act of 2008 (Senate Bill 375)

This statute requires California's regional planning agencies to include a Sustainable Communities Strategy (SCS) or Alternative Planning Strategy in their Regional Transportation Plans (RTP). Senate Bill (SB) 375 was enacted to reduce greenhouse gas emissions from automobiles and light trucks through integrated transportation, land use, housing, and environmental planning. Under the law, California's regional planning agencies are required to include an SCS in their RTPs. The SCS provides a plan for meeting the regional emissions reduction targets established by the California Air Resources Board. If the emissions reduction targets cannot be met through the SCS, an Alternative Planning Strategy may be developed that shows how the targets would be achieved through alternative development patterns, infrastructure, or additional transportation measures or policies. SB 375 also offers local governments regulatory and other incentives to encourage more compact new development and transportation alternatives.

The requirements of SB 375 are reflected in the 2020–2045 RTP/SCS adopted by the Southern California Association of Governments (SCAG), which serves as the regional planning agency in the six-county metropolitan region composed of Orange, Los Angeles, Ventura, Riverside, San Bernardino, and Imperial Counties. The 2020–2045 RTP/SCS is discussed in further detail below.

Local and Regional

Southern California Association of Governments

SCAG is a regional council of governments representing Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura counties, which encompass over 38,000 square miles. SCAG is the federally recognized metropolitan planning organization for this region and a forum for addressing regional issues concerning transportation, the economy, community development, and the environment. SCAG is also the regional clearinghouse for projects requiring environmental documentation under federal and state law. In this role, SCAG reviews proposed development and infrastructure projects to analyze their impacts on regional planning programs. As the Southern California region's metropolitan planning organization, SCAG cooperates with the South Coast Air Quality Management District, the California Department of Transportation, and other agencies in preparing regional planning documents.

2020–2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). The 2020–2045 RTP/SCS (also known as the Connect SoCal Plan) was adopted on September 3, 2020, and presents the land use and transportation vision for the region through the year 2045, providing a long-term investment framework for addressing the region's challenges (SCAG 2020). The RTP/SCS explicitly lays out goals related to housing, transportation, equity and resilience in order to adequately reflect the increasing importance of these topics in the region, and where possible the goals have been developed to link to potential performance measures and targets. The RTP/SCS development process involved working closely with local governments throughout the region to collect and compile data on land use and growth trends. The core vision of the RTP/SCS is to build upon and expanded land use and transportation strategies established over several planning cycles to increase mobility options and achieve a more sustainable growth pattern.

SCAQMD 2022 Air Quality Management Plan

An Air Quality Management Plan (AQMP) is a plan for the regional improvement of air quality. The Project site is within the South Coast Air Basin under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The SCAQMD 2022 AQMP, adopted by the SCAQMD Governing Board in December 2022, is the applicable AQMP (SCAQMD 2022). The Project's consistency with the 2022 AQMP is analyzed in detail in Section 3.1, Air Quality.

Gardena General Plan

The General Plan is the City's guiding document for long-range planning and policymaking. The current General Plan includes the following elements (City of Gardena 2006a):

Community Development Element. The Community Development Element incudes four plans: the Land Use Plan, Economic Development Plan, Community Design Plan and Circulation Plan.

The Land Use Plan was updated in 2023. Its purpose is to improve the use of the land and relationships between the different land uses in the way that best serves the health, safety, welfare and convenience of the general public. As Gardena is a fully developed city with a largely established land use pattern, the Land Use Plan focuses on refinements to the land use patterns and polices to

encourage community rejuvenation and address changes in the marketplace and demands for housing imposed by the state (City of Gardena 2023a). The 1450 Artesia Specific Plan (proposed Project) is explicitly included in Table LU-1, Gardena Specific Plans of the Land Use Plan as a future plan to be adopted.

The Economic Development Plan was adopted in 2006 as part of the original 2006 City of Gardena General Plan. The Economic Development Plan guides the expansion of the City's local economy through the creation of new quality jobs, attraction and retention of businesses, and the revitalization of the existing commercial and industrial establishments. The goal of the Economic Development Plan is to provide City residents with employment, and commercial retail and services and to generate revenues to support various local programs and services and the City's financial challenges (City of Gardena 2006b).

The Community Design Plan was adopted in 2006 as part of the original 2006 City of Gardena General Plan. The Community Design Plan focuses on the aesthetic qualities of existing and future developments in the City and its relationship to the surrounding environment. The goal of the Community Design Plan is to make Gardena visually attractive and in turn positively impact the economic stability and growth of the City through policy guidance for the built environments (City of Gardena 2006c).

The Circulation Plan was updated in 2020. The purpose of the Circulation Plan is to design and improve the circulation system to meet the future needs of Gardena's residents and visitors through development of a circulation system should promote the safe and efficient movement of both people and goods through the City. The policies in the Circulation Plan aim to enhance the development and maintenance of a transportation system that supports the safe and convenient movement of people through the City in all modes. The Circulation Plan guides the planning, development, and enhancement of the City's circulation system based upon the lands patterns and intensities identified in the Land Use Plan and also in consideration of the Complete Streets Act (Assembly Bill 1358), which requires planning for a balanced, multimodal transportation network that meets the needs of all users of streets, roads, and highways for safe and convenient travel in a manner that is suitable to the local context of the community (City of Gardena 2020).

Housing Element. The Housing Element was recently updated. The 2021-2029 Housing Element (Housing Element) was adopted in January of 2022 and readopted in February 2023 in response to HCD's comments. The Housing Element identifies strategies and programs that focus on conserving and improving existing affordable housing, providing adequate sites for residential development, assisting in the provision of affordable housing, removing governmental and other constraints on housing development and affirmatively furthering fair housing (City of Gardena 2023b).

Environmental Justice Element. The Environmental Justice (EJ) Element was adopted in 2022. The EJ Element identifies goals and policies that promote environmental justice citywide with a focus on reducing disproportionate impacts on Disadvantaged Communities (DACs) (City of Gardena 2022a). 13 out of the 14 census tracts within the City are considered DACs.

Community Resources Element. The Community Resources Element includes two plans: the Open Space Plan and Conservation Plan. The Open Space Plan encourage the preservation of existing open spaces and recreation facilities and the development of new resources. It outlines goals and policies that

maintain and upgrade existing recreation programs and considers new parks, open space provisions and recreation programs to meet the needs of City residents (City of Gardena 2006d). The Conservation Plan provides direction regarding the conservation, development, and utilization of natural resources by establishing goals and policies that reconcile conflicting demands on the limited natural resources within the City (City of Gardena 2006e).

Community Safety Element. The Community Safety Element includes two plans: the Public Safety Plan and Noise Plan. The Public Safety Plan, adopted in February 2022, identifies potential hazards that can significantly impact the City, with a focus on protecting life and property from hazardous conditions. The plan includes emergency preparedness and response in the event of a disaster and addresses the fire and law enforcement services needed to safeguard and enhance the overall livability of the community. It also includes specific policies addressing climate adaptation and resiliency to reduce potential impacts of hazards that can be exacerbated by climate change (City of Gardena 2022b).

The Noise Plan establishes goals, policies, and programs for achieving and maintaining environmental noise control so that residents in the City will be protected from excessive noise. The Noise Plan is the basis for achieving land use compatibility with respect to noise through the long-range planning and project review processes (City of Gardena 2006f).

City of Gardena Climate Action Plan

Gardena's Climate Action Plan (CAP), developed in cooperation with the South Bay Cities Council of Governments, was approved in December 2017. The CAP identifies community-wide strategies to lower GHG emissions from a range of sources within the jurisdiction, including transportation, land use, energy generation and consumption, water, and waste (City of Gardena 2017). An analysis of the proposed Project's compliance with the policies set forth in the CAP is included in Section 3.5, Greenhouse Gas Emissions.

Municipal Code

Title 18 of the Gardena Municipal Code is the Zoning Ordinance. The Zoning Ordinance and associated Zoning Map provide information on the allowable uses for each piece of property within the City. The Zoning Ordinance and associated Zoning Map act as implementation tools for the Land Use Plan. Both the Zoning Ordinance and Zoning Map designate specific zoning districts within the City and establishing each district's allowed intensities and development standards.

3.8.3 Thresholds of Significance

The significance criteria used to evaluate the Project impacts related to land use and planning are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to land use and planning would occur if the Project would:

1. Physically divide an established community?
2. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Based on the results of the Initial Study prepared for the Project (Appendix A), the Project would result in less-than-significant impacts related to physically dividing an established community. As such, the following threshold is evaluated in this section of the Draft EIR:

LU-1. Would the Project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

3.8.4 Impact Analysis

Threshold LU-1. Would the Project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Project consistency with 2020–2045 RTP/SCS Goals is detailed in Table 3.8-1. As shown in Table 3.8-1, the proposed Project would be consistent with the 2020–2045 RTP/SCS.

Table 3.8-1. Consistency with 2020–2045 RTP/SCS Goals

RTP/SCS Goal	Project Consistency Analysis
Goal 1 Encourage regional economic prosperity and global competitiveness.	**Consistent.** This policy would be implemented at the jurisdiction level by cities and counties within the SCAG region as part of local land use and policy planning efforts. Nonetheless, the Project would involve construction of mixed-use commercial/industrial (warehouse) development on a currently blighted an underutilized property. Thus, the Project would establish a jobs-producing and tax-generating land use that would meet contemporary industry standards. ,
Goal 2 Improve mobility, accessibility, reliability, and travel safety for people and goods.	**Consistent.** Although this Project is not a transportation improvement project, the Project is located near existing transit routes on Artesia Boulevard, Western Avenue, and access to I-110 and SR-91, which would help to facilitate regional goods movement from the warehouse component throughout Southern California.
Goal 3 Enhance the preservation, security, and resilience of the regional transportation system.	**Consistent.** A local transportation assessment (Appendix J2) has been prepared to determine the Project's potential effect on the regional and local circulation system. The Project would not adversely affect the local or circulation system.
Goal 4 Increase person and goods movement and travel choices within the transportation system.	**Consistent.** The Project would include construction and operation of mixed-use development that includes a warehouse component. The Project site would be easily and efficiently accessible to regional highways (i.e., I-105, I-110 and SR-91), which would help to facilitate regional goods movement throughout Southern California.
Goal 5	**Consistent.** The Project would involve a mixed-use development that inherently involves the emission of GHG

Table 3.8-1. Consistency with 2020–2045 RTP/SCS Goals

RTP/SCS Goal	Project Consistency Analysis
Reduce greenhouse gas emissions and improve air quality.	and air contaminant emissions. As discussed in Section 3.1, Air Quality, and Section 3.5, Greenhouse Gas Emissions, the Project would implement mitigation measures to reduce air quality and greenhouse gas emissions to the maximum extent feasible. In addition, according to SCAG's Comprehensive Regional Goods Movement Plan and Implementation Strategy, the region will run out of suitably zoned vacant land designated for warehouse facilities in or around 2028 (SCAG 2013). As the Project includes a warehouse component, it would meet the growing demand warehousing space and would do so in an area that is proximate to regional highways (i.e., I-105, I-110 and SR-91), thereby reducing the need for longer distance trips that could result in additional air pollutant and GHG emissions.
Goal 6 Support healthy and equitable communities.	**Consistent.** This policy pertains to health and equitable communities, which are addressed at the policy-level by the City's Safety Element. The Project would be designed consistent with applicable health and safety requirements, including the California Building Code. Additionally, as discussed in Section 3.1, Air Quality, health risk assessments were prepared for the Project, which concluded that, with implementation of MM-AQ-1, the Project would not have a significant adverse effect on the health of the local community. By providing a tax-generating and jobs-producing land use, the Project would drive economic growth within the City and region, thereby supporting equity in the City.
Goal 7 Adapt to a changing climate and support an integrated regional development pattern and transportation network.	**Consistent.** As climate change continues to increase the number of instances of disruption to local and regional systems, it will become increasingly more urgent for local jurisdictions to employ strategies to reduce their individual contributions. The Project would involve a mixed-use development that inherently involves the emission of GHG and air contaminant emissions. However, as discussed in Section 3.1, Air Quality, and Section 3.5, Greenhouse Gas Emissions, the Project would implement mitigation measures to reduce air quality and greenhouse gas emissions to the maximum extent feasible. Moreover, siting the Project in a location that is proximate to regional highways (i.e., I-105, I-110 and SR-91)

Table 3.8-1. Consistency with 2020–2045 RTP/SCS Goals

RTP/SCS Goal	Project Consistency Analysis
	would facilitate the integration of a regional transportation network.
Goal 8 Leverage new transportation technologies and data-driven solutions that result in more efficient travel.	**Consistent.** Development of the proposed Project would provide quick and efficient access to multiple freeways, thereby eliminating the need for truck traffic to take longer routes through residential areas and supporting efficient travel. The Project would also include passenger EV charging stations, per CALGreen standards. The Project would include 124 automobile parking stalls, which would require 25 EV capable parking spaces and 6 EVSC parking spaces (charging stations).
Goal 9 Encourage development of diverse housing types in areas that are supported by multiple transportation options.	**Consistent.** The Project does not involve housing development; therefore, this goal is not applicable. However, the Project site is located within a relatively short walking distance to local bus routes.
Goal 10 Promote conservation of natural and agricultural lands and restoration of habitats.	**No conflict identified.** The Project site is entirely developed and located within an urban area. No natural and agricultural lands are located within the immediate Project vicinity.

Source: SCAG 2020.

As described in Section 3.8.1, Existing Conditions, above, the Project site has a land use designation of Specific Plan and is zoned as the 1450 Artesia Specific Plan with a notation that it would be developed for industrial and commercial uses once a specific plan was adopted. The proposed Project includes approval of the 1450 Artesia Specific Plan and development of improvements consistent with the zoning. Therefore, the proposed Project is consistent with the land use designation and zoning (Title 18 of the Gardena Municipal Code) of the Project site.

Project consistency with applicable General Plan goals and policies is detailed in Table 3.8-2. Although the General Plan contains numerous goals and policies beyond those discussed in Table 3.8-2, those goals and policies are not relevant to the proposed Project, are discussed in other technical sections of this document, or are not closely related to the "purpose of avoiding or mitigating an environmental effect" and are therefore not analyzed. In some cases, mitigation measures identified within this Draft EIR for the purposes of reducing impacts to other CEQA Guidelines Appendix G environmental resource areas (i.e., air quality and noise) would assist the Project in maintaining consistency with applicable goals, objectives, and policies adopted for the purpose of avoiding or mitigating environmental effects. As shown in Table 3.8-2, the proposed Project would be consistent with the General Plan.

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Policies

Policy	Project Consistency Analysis
Land Use Plan	
LU 2.1: Require ample landscaping and high level maintenance in all new and existing commercial and industrial developments.	**Consistent.** The Specific Plan includes aesthetically pleasing and drought-tolerant landscaping to provide a high level of aesthetic standards.
LU 2.2: Encourage the assembly of smaller commercial properties into larger centers and discourage the subdivision of larger commercial/industrial sites into smaller parcels.	**Consistent.** The Project would not include the subdivision of larger commercial/industrial sites into smaller parcels and would instead consolidate smaller commercial and residential properties into a larger single Project.
LU 3.1: Require adequate off-street parking, internal circulation and loading spaces for commercial developments.	**Consistent.** The Specific Plan provides off-street parking and loading design standards for the Specific Plan Area that are consistent with the City's Municipal Code and all applicable City requirements and standards.
LU 3.2: Encourage the upgrade and re-habilitation of existing commercial and industrial building facades and sites.	**Consistent.** The Project would upgrade and rehabilitate an existing underutilized and blighted industrial site by building a new, aesthetically pleasing mixed use development.
LU 3.3: Attract commercial and industrial uses that minimize adverse impacts on surrounding land uses and are economically beneficial to the City in terms of revenue generation and employment opportunities	**Consistent.** The Project includes the development of the 1450 Artesia Specific Plan, which considers and minimized impacts to surrounding land uses and would increase employment and generate property and sales taxes for the City at a currently underutilized site. Additionally, under the Development Agreement the Applicant would be providing a monetary benefit to the City.
LU 3.4: Promote the development and preservation of attractive commercial and industrial development with ample landscape treatment, adequate parking and the full range of customer amenities.	**Consistent.** The Specific Plan includes Design Guidelines for the architecture, landscape and streetscape and lighting of the proposed Project as well as Development Regulations and Requirements for vehicle parking. The Project would redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor within the City.
LU 3.5: New commercial and industrial developments shall meet or exceed local and state requirements pertaining to noise, air, water, seismic safety and any other applicable environmental regulations.	**Consistent.** As discussed, and assessed throughout this EIR, the Project would comply with all applicable environmental regulations.

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Policies

Policy	Project Consistency Analysis
LU 3.6: Require the mitigation or remediation of potentially hazardous conditions in the City.	**Consistent.** Remediation of the contaminated areas within the Project site will be completed prior to the start of Project construction. The Final Remedial Action Plan from the Department of Toxic Substance Control (DTSC) includes provisions for a legal land use covenant to limit future uses of the site as well as long-term monitoring and maintenance of the cap and underlying groundwater, which the Project would comply with.
LU 3.7: Require all outdoor storage to be concealed from view from the public right of ways and adjoining land uses.	**Consistent.** The Specific Plan requires outdoor storage and trash receptacles to conceal the views of materials and products from streets and nearby properties. All outdoor storage of facilities for fuel, raw materials, and products would be required to be concealed from view from adjacent property and public rights-of-way. No material or waste would be deposited upon a subject lot in such form or manner that it may be transferred off the lot by natural causes or forces. All materials or wastes that might cause fumes or dust, that constitute a fire hazard, or that may be edible by or otherwise be attractive to rodents or insects shall be stored outdoors only in closed containers.
LU 3.8: Require loading and unloading of materials to be conducted completely on private property and out of sight from a public street.	**Consistent.** All warehouse operations would be conducted within the Project site and away from adjacent public areas.
LU 3.9: Ensure new development provides adequate improvements, dedications, and fees to the City to fully cover the cost of the City services and facilities.	**Consistent.** The Specific Plan and any development it facilitates would be required to pay any applicable fees to the City prior to building permit issuance. Additionally, Developer would make a $1,000,000 contribution to the City as part of the Development Agreement.
Economic Development Plan	
ED 1.5: Support regional-serving commercial development at key focus areas – Artesia Boulevard Corridor and the areas around the three intersections along Rosecrans Avenue at Van Ness, Western and Normandie.	**Consistent.** The proposed Project would redevelop an underutilized, blighted and environmentally impacted property along the Artesia Boulevard Corridor with economically vibrant warehouse and self-storage uses.

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Policies

Policy	Project Consistency Analysis
Community Design Plan	
DS 2.3: Encourage a variety of architectural styles, massing, floor plans, color schemes, building materials, façade treatments, elevation and wall articulations.	**Consistent.** The Project's Specific Plan includes Development Standards and Design Guidelines that support this policy. For example, the Specific Plan states that "long, blank walls should be broken up with vertical and horizontal façade articulation achieved through stamping, colors, materials, and modulation with fencing."
DS 2.12: Provide well-designed and safe parking areas that maximize security, surveillance, and efficient access to building entrances.	**Consistent.** The Specific Plan includes Development Regulations and Requirements that outline parking standards, including safety standards.
DS 2.14: Require design standards be established to provide for attractive building design features, safe egress and ingress, sufficient parking, adequate pedestrian amenities, landscaping, and proper signage.	**Consistent.** The Specific Plan includes Development Regulations and Requirements that outline landscaping, parking, lighting and signage requirements as well as Design Guidelines that address architecture, landscape and streetscape and lighting. A Circulation Plan, which addresses on-site circulation and ingress/egress, is also included as part of the Specific Plan. Pedestrian access to the Project site is provided by an existing sidewalk along Artesia Boulevard.
DS 3.1: Consider the adoption of specific plans at identified focus areas that provide design and landscape standards that support either a street-oriented or village-type development pattern.	**Consistent.** The Project includes approval of a Specific Plan for the development of a street-oriented mixed-use Project that includes landscape and streetscape standards.
DS 3.3: Promote the segregation of residential parking from commercial and office parking.	**Consistent.** The Specific Plan includes Development Regulations and Requirements that outline parking standards. Parking requirements for operation of the proposed Project would be met on site.
DS 3.5: Encourage underground parking or surface parking with effective landscape buffers to minimize the visual impact of parking areas.	**Consistent.** The Specific Plan includes a Landscape Plan that proposes aesthetically pleasing and drought-tolerant landscaping along the perimeter of the Project site adjacent to public roadways.
DS 4.3: Encourage commercial developments to include interesting rooflines, building shapes, and patterns of shade and shadow while demonstrating sensitivity to the	**Consistent.** The Project's Specific Plan includes Development Standards and Design Guidelines that support this policy. For example, the Specific Plan states that the Specific Plan

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Policies

Policy	Project Consistency Analysis
contextual influences of the surrounding area and compatibility with surrounding neighborhoods.	"should encourage industrial building design to consider the visual and physical relationship to adjacent uses."
DS 4.8: Require loading areas, access and circulation driveways, trash and storage areas, and rooftop equipment to be concealed from view and located as far as possible from adjacent residences.	**Consistent.** The Specific Plan includes Development Standards for outdoor storage, enclosure of mechanical equipment, parking and loading and on-site circulation and access.
DS 4.9: Reduce the impact of monotonous walls with vertical and horizontal design elements or landscaping.	**Consistent.** The Project's Specific Plan includes Development Standards and Design Guidelines that support this policy. For example, the Specific Plan states that "long, blank walls should be broken up with vertical and horizontal façade articulation achieved through stamping, colors, materials, and modulation with fencing."
DS 4.12: Enhance the physical appearance of the industrial and commercial areas through better "edge" identification, signage and landscaping.	**Consistent.** The Project's Specific Plan includes Development Standards and Design Guidelines for landscaping, signage. Specifically, the Specific Plan states that landscaping along "external edges will be more intense than interior landscaping but shall also preserve and enhance strategic view corridors into the project to take advantage of frontage along these major traffic corridors."
DS 5.1: Industrial projects should be designed to convey visual interest and a positive image.	**Consistent.** The Specific Plan includes Development Regulations and Requirements that outline landscaping, parking, lighting and signage requirements as well as Design Guidelines that address architecture, landscape and streetscape and lighting.
DS 5.2: Encourage the design of industrial buildings to consider the visual and physical relationship to adjacent uses. An industrial structure, which dominates the surrounding environment by its relative size, shall be discouraged.	**Consistent.** The Specific Plan includes Design Guidelines that address architectural style and scale.
DS 5.3: Industrial projects shall be required to: incorporate landscape setbacks and buffers; aesthetically treat horizontal and vertical design elements on building and perimeter walls; and conceal storage yards, parking, and	**Consistent.** The Specific Plan includes a Landscape Plan that proposes aesthetically pleasing and drought-tolerant landscaping along the perimeter of the Project site adjacent to public roadways.

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Policies

Policy	Project Consistency Analysis
service areas to minimize visual impacts on the public.	
DS 5.4: Long, blank walls should be broken up with vertical and horizontal façade articulation achieved through stamping, colors, materials, modulation and landscaping.	**Consistent.** The Specific Plan includes Design Guidelines that address design principles, architectural style and scale, siding material, color, architectural features and landscaping.
DS 6.1: Encourage the use of common design elements in signs for commercial and industrial centers.	**Consistent.** The Specific Plan includes Design Guidelines that address design principles, architectural style and scale, siding material, color, architectural features and landscaping.
DS 6.2: Prohibit the use of pole signs, roof signs, temporary lettering of window signs, banner signs and temporary signs.	**Consistent**. Per the Specific Plan, all signage would be consistent with Chapter 18.58 of the City General Plan.
Circulation Plan	
CI 1.1: Prioritize long-term sustainability for the City of Gardena, in alignment with regional and state goals, by promoting infill development, reduced reliance on single-occupancy vehicle trips, and improved multi-modal transportation networks, with the goal of reducing air pollution and greenhouse gas emissions, thereby improving the health and quality of life for residents.	**Consistent:** The Specific Plan would develop an infill site that is served by existing transportation facilities and arterial and collector roadways including Artesia Boulevard and Normandie Avenue. It would reduce reliance on single-occupancy trips because the Project site is served by bus transit. See Section 3.10, Transportation, for a discussion about the Project's consistency with thresholds related to VMT.
CI 1.2: Minimize truck traffic through Gardena and minimize adverse impacts by regulating off-street truck parking, intrusions into neighborhoods, and noise levels.	**Consistent**: The Specific Plan area is served by arterial and collector roadway facilities that are designated truck routes. Therefore, development of Specific Plan is consistent with this goal because it provides on-site parking for trucks and would minimize intrusion into neighborhoods. Consistency with noise levels is addressed under Noise Plan.
Economic Development Plan	
ED 1.4: Encourage high quality mixed-use development in underutilized commercial and industrial areas where it will improve the City's tax base and image.	**Consistent**. The Project would redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor within the City and would increase employment and generate property and sales taxes for the City at a currently underutilized site.

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Policies

Policy	Project Consistency Analysis
ED 1.5: Support regional-serving commercial development at key focus areas – Artesia Boulevard Corridor and the areas around the three intersections along Rosecrans Avenue at Van Ness, Western and Normandie.	**Consistent.** The Project would redevelop an underutilized, blighted and environmentally impacted property along the Artesia Boulevard Corridor with economically vibrant industrial and commercial uses.
Environmental Justice Element	
EJ 1.2: Attract new clean industry to the City which do not emit smoke, noise, offensive odors, or harmful industrial wastes.	**Consistent.** The Project would not emit smoke, noise, offensive odors, or harmful industrial wastes as discussed in Section 3.6, Hazards and Hazardous Materials, as well as Chapter 4, Other CEQA Considerations, of this EIR.
EJ 1.3: Require the mitigation or remediation of hazardous conditions in the City. (See also Policy LU 3.7)	**Consistent.** Remediation of the contaminated areas within the Project site will be completed prior to the start of Project construction. The Final Remedial Action Plan from DTSC includes provisions for a legal land use covenant to limit future uses of the site as well as long-term monitoring and maintenance of the cap and underlying groundwater, which the proposed Project would comply with.
EJ 1.5: Prioritize long-term sustainability for the City of Gardena, in alignment with regional and state goals, by promoting infill development, reduced reliance on single-occupancy vehicle trips, and improved multi-modal transportation networks, with the goal of reducing air pollution and greenhouse gas emissions, thereby improving the health and quality of life for residents. (See Policy CI 1.1)	**Consistent.** The Project is an infill development located on a site with regional access to the larger Southern California transportation network.
EJ 1.12: Incorporate noise considerations into land use planning decisions. (See Goal N 2)	**Consistent.** The City incorporated noise considerations into its review of the Specific Plan. Section 3.9, Noise, of this EIR includes analysis of the Project's potential for generating noise impacts on the surrounding environment both during construction and operation, and imposed mitigation measures as appropriate. Consistent with Policy 2.5, the Project would conduct interior noise level studies and achieve interior noise level standards as required by the Building Code. Therefore, the Project would be consistent with this policy

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Policies

Policy	Project Consistency Analysis
EJ 2.4: Consider distributing City events across multiple parks as feasible.	**Consistent.** The Specific Plan includes the use of 36,000 square feet (0.8 acres) of the Project's parking area for City-sponsored special events. These events would occur two to three times per month and include food trucks, farmer's markets, and food giveaways.
Conservation Plan	
CN 2.2: Comply with the water conservation measures set forth by the California Department of Water Resources.	**Consistent.** The Project would comply with all applicable regulations, including the water conservation measures set forth by the Department of Water Resources.
CN 3.1: Comply with the requirements set forth in the City's Source Reduction and Recycling Element.	**Consistent.** The Project would comply with the applicable requirements of the City's Source Reduction and Recycling Element.
CN 4.1: Encourage innovative building designs that conserve and minimize energy consumption.	**Consistent.** Development proposals within the Specific Plan area must be designed to achieve best practices for architectural design and land development that enhance the City's infrastructure, reduce consumption of non-renewable resources, and limit pollutants and greenhouse gas emissions.
CN 4.2: Require compliance with Title 24 regulations to conserve energy.	**Consistent.** The Project would conform to the most recent CALGreen sustainability standards in effect at the time of building plan submission.
CN 5.3: Protect and preserve cultural resources of the Gabrielino Native American Tribe found or uncovered during construction.	**Consistent.** The Project includes mitigation for tribal monitoring and the unanticipated discovery of tribal cultural resources, as outlined in Section 3.11, Tribal Cultural Resources, of this EIR.
Public Safety Plan	
PS 1.7: Development Review. Ensure that law enforcement, crime prevention, and fire safety concerns are considered in the review of planning and development proposals in the City.	**Consistent.** The City has considered law enforcement, crime prevention, and fire safety concerns in its review of the Specific Plan. The Project would comply with all applicable Fire Code and fire safety regulations.
PS 2.2: Building and Fire Codes. Require that all buildings and facilities within Gardena comply with local, state, and federal regulatory standards such as the California Building and Fire Codes as well as other applicable fire safety standards.	**Consistent.** The Project would comply with all applicable Fire Code and fire safety regulations.

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Policies

Policy	Project Consistency Analysis
PS 2.7: New Development. a. Require adequate fire protection services, fire protection plans, and emergency vehicle access for new development. b. Locate, design, and construct new development to minimize the risk of structural loss from fires. c. Install visible home and street addressing and signage.	**Consistent.** The Project would comply with all applicable Fire Code and fire safety regulations.
PS 3.1: California Building Code. Require compliance with seismic safety standards in the California Building Code, as adopted and amended.	**Consistent.** Design and development of the Project would comply with the seismic safety standards in the California Building Code.
PS 3.2: Geotechnical Studies. Require geotechnical studies for all new development projects in the City, including those located in an Alquist-Priolo Earthquake Fault Zone or areas subject to liquefaction.	**Consistent.** A geotechnical study was prepared for the Project site (see Appendix E), and the Project is required to comply with all recommendations contained therein.
PS 5.4: California Building Code. Adhere to the latest building, site, and design codes in the California Building Code and FEMA flood control guidelines to avoid or minimize the risk of flooding hazards for new development in the City.	**Consistent.** The Project would conform to the California Building Code in effect at the time of building plan submission.
PS 5.5: Stormwater Runoff. Encourage new developments that add substantial amounts of impervious surfaces to integrate low impact development (LID) to reduce stormwater runoff.	**Consistent.** As discussed in Section 3.7, Hydrology and Water Quality, collected stormwater would be carried to a subsurface retention basin installed downstream of storage for additional volume control and treatment. It would screen, separate, and act as biofiltration LID solution prior to off-site release.
Noise Plan	
N 2.4: Require mitigation of all significant noise impacts as a condition of project approval.	**Consistent.** With the incorporation of MM-NOI-1 during Special Events on the Project site, noise impacts during both construction and operation would be less than significant.
N 2.5: Require proposed projects to be reviewed for compatibility with nearby noise-sensitive land uses with the intent of reducing noise impacts.	**Consistent.** A noise study and is included as Appendix I of this EIR. As discussed therein, as well as within Section 3.9, Noise, the Project would be compatible with nearby noise-sensitive land uses.

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Policies

Policy	Project Consistency Analysis
N 2.7: Require new commercial/industrial operations located in proximity to existing or proposed residential areas to incorporate noise mitigation into the project design.	**Consistent**. A noise study and is included as Appendix I of this EIR. As discussed therein, as well as within Section 3.9, Noise, the Project would be compatible with nearby noise-sensitive land uses. With the incorporation of MM-NOI-1 during Special Events on the Project site, noise impacts during both construction and operation would be less than significant.
N 3.2: Require compliance with noise regulations. Review and update Gardena's policies and regulations affecting noise.	**Consistent.** As discussed in Section 3.9, Noise, construction and operation would comply with Chapter 8.36 (Noise) of the City's Municipal Code.
N 3.3: Require compliance with construction hours to minimize the impacts of construction noise on adjacent land.	**Consistent.** As discussed in Section 3.9, Noise, construction hours would comply with Chapter 8.36 (Noise) of the City's Municipal Code.

Source: City of Gardena 2006a.

3.8.5 Mitigation Measures

Impacts related to land use and planning were found to be less than significant, and no mitigation required.

3.8.6 Level of Significance After Mitigation

Impacts related to land use and planning would be less than significant, and no mitigation is required.

3.8.7 Cumulative Effects

The proposed Project would establish the 1450 Artesia Specific Plan and allow for the development of the proposed mixed-use Project consisting of a 268,000 gross-square-foot (GSF) building with associated surface parking, and landscaping and circulation improvements, and including a self-storage use (three levels totaling 186,000 GSF over ground floor warehouse and a leasing office with up to 1,480 storage units), an industrial warehousing use (one level totaling 72,000 GSF plus 10 loading docks), and an office/retail use (a mezzanine totaling 10,000 GSF). Implementation of the Project's Specific Plan would eliminate any inconsistencies between the Project site's General Plan land use designation and zoning code. Presumably, as development occurs elsewhere throughout the City of Gardena and the larger South Bay and Los Angeles County areas, any proposal to change the underlying land use or development intensity for a specific property would similarly be resolved through an amendment to the applicable land use plan. Given that amendments to land use plans are discretionary in nature, any action involving an amendment would be subject to CEQA and reviewed on a case-by-case basis. Should any amendment result in a significant environmental effect, mitigation measures would be identified to reduce those impacts. Additionally, the periodic and frequent nature of regional planning efforts such as updates to Connect SoCal Plan and AQMP

allow for changes in land use to be integrated into a regional planning context, thereby accounting for ever-changing land use patterns. Given these factors, the Project would not result in any cumulatively considerable land use and planning conflicts in the context of compliance with applicable environmental plans, policies, and regulations beyond those identified in other sections of this EIR.

3.8.8 References

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3.9 Noise

This section describes the existing noise conditions of the Project site and vicinity, identifies associated regulatory requirements, evaluates potential impacts, and identifies mitigation measures related to implementation of the proposed Project.

The analysis for this section is based on information from the following document:

- Acoustical Assessment, prepared by Kimley-Horn and Associates, dated April 2024 (Appendix I)

3.9.1 Existing Conditions

Existing Noise Sources

The City of Gardena (City) is impacted by various noise sources. Mobile sources of noise, especially cars, trucks, and trains are the most common and significant sources of noise. Other noise sources are the various land uses (i.e., residential, commercial, institutional, and recreational and parks activities) throughout the City that generate stationary-source noise.

Mobile Sources

Artesia Boulevard and Normandie Avenue are located directly north and east of the Project site and are the primary sources of mobile noise in the Project vicinity. Additional contributions to the ambient noise environment in the Project area include the I-110 freeway, located approximately 0.89 miles east of the Project site, and the Union Pacific rail line, which runs in a north–south direction along the west side of Normandie Avenue directly east of the Project site. According to the Gardena General Plan, there is a maximum of two train pass-bys along the Union Pacific rail line each day, and thus this is not considered to be a substantial source of noise.

Stationary Sources

The primary sources of stationary noise in the Project vicinity are those associated with residential properties to the west and commercial uses to the north of the Project site, and on-site operations from a U-Haul rental facility and sandblasting operations. Stationary noise sources associated with residential uses can include mechanical equipment (e.g., heating ventilation and air conditioning [HVAC] equipment), dogs barking, idling vehicles, vehicle movements, and residents talking. Stationary noise sources associated with the commercial uses to the north and existing on-site operations consist of mechanical equipment, idling vehicles, vehicle movement, freight loading/unloading and customers talking. The noise associated with these sources is generally transient in nature.

Noise Measurements

To quantify existing ambient noise levels in the Project area, Kimley-Horn and Associates conducted one long-term and five short-term noise measurements on June 15, 2022; see Appendix I. The noise measurement sites were representative of typical existing noise exposure within and immediately

adjacent to the Project site. Short-term (10-minute) measurements were taken between 2:27 p.m. and 3:47 p.m. A long-term (24 continuous hours) measurement was taken between 4:18 p.m. on June 15th and 4:38 p.m. on June 16th, 2022. Measurements of L_{eq} are considered representative of the noise levels throughout the day. The average noise levels measured at each location are listed in Table 3.9-1 and the locations are shown on Figure 3.9-1, Noise Measurement Locations.

Table 3.9-1. Existing Noise Measurements

Site	Location	L_{min} (dBA)	L_{max} (dBA)	L_{eq} (dBA)
Short-Term Noise Measurements (10-minute)				
1	Education center at the southeast corner of the West 177th Street and Normandie Avenue intersection	28.8	71.2	59.8
2	Northeast corner of the West Cassidy Street and Normandie Avenue intersection	51.3	79.2	69.6
3	Commercial center near the northwest corner of Artesia Boulevard and Normandie Avenue	56.3	84.9	71.3
4	In residential neighborhood near the corner of West 173rd Street and Halldale Avenue	45.0	69.6	51.8
5	Multi-use residences directly west of the Project site	46.6	62.4	53.1
Long-Term Noise Measurement (24-hour)				
LT-1	Northwestern portion of Project site adjacent to residential use to the west	35.9	90.5	60.7 (24-hour)

Source: Appendix I

Noise-Sensitive Receptors

Noise-sensitive receptors that are locations where noise exposure can have a negative effect on human activities involving communications, concentration or sleep. Land uses considered to be noise-sensitive receptors include residences, schools, churches, parks, childcare centers, and long - term health care facilities. Table 3.9-2 lists the closest noise-sensitive receptors to the Project site, which include single- and multifamily residential and educational uses. As shown in Table 3.9-2, the closest noise-sensitive receptors to the Project site are live/work and multifamily residences located approximately 15 feet to the west along Artesia Boulevard and an occupied single-family residence 15 feet to the southwest of the Project site, which has been acquired by the Project Applicant and will be demolished and the property included into the Project footprint.

Table 3.9-2. Closest Noise-Sensitive Receptors

Receptor Description	Distance and Direction from the Project	Description
Live/Work and multifamily residences	Adjacent to the west	Live/Work and multifamily residences adjacent to Project, along Artesia Boulevard
Single-family residences	150 feet to the east	Northeast corner of W. Cassidy Street and Normandie Avenue
Single-family residences	425 feet to the north	Along West 173rd Street
School	465 feet to the southeast	Gardena Early Education Center, southeast corner of West 177th Street and Normandie Avenue
Multifamily residences	1,080 feet to the south	Along West 179th Street

Source: Appendix I.

3.9.2 Relevant Plans, Policies, and Ordinances

To limit population exposure to physically or psychologically damaging as well as intrusive noise levels, the federal government, the State of California, various county governments, and most municipalities in the state have established standards and ordinances to control noise.

State

California Government Code

California Government Code Section 65302(f) mandates that the legislative body of each county and city adopt a noise element as part of its comprehensive general plan. The local noise element must recognize the land use compatibility guidelines established by the State Department of Health Services. The guidelines rank noise land use compatibility in terms of "normally acceptable," "conditionally acceptable," "normally unacceptable," and "clearly unacceptable" noise levels for various land use types. Single-family homes are "normally acceptable" in exterior noise environments up to 60 dBA CNEL and "conditionally acceptable" up to 70 dBA CNEL. Multiple-family residential uses are "normally acceptable" up to 65 dBA CNEL and "conditionally acceptable" up to 70 dBA CNEL. Schools, libraries, and churches are "normally acceptable" up to 70 dBA CNEL, as are office buildings and business, commercial, and professional uses.

Title 24 – Building Code

The state's noise insulation standards are codified in the California Code of Regulations, Title 24: Part 1, Building Standards Administrative Code, and Part 2, California Building Code. These noise standards are applied to new construction in California for interior noise compatibility from exterior noise sources. The regulations specify that acoustical studies must be prepared when noise-sensitive structures, such as residential buildings, schools, or hospitals, are located near major transportation noise sources, and where such noise sources create an exterior noise level of 65 dBA CNEL or higher. Acoustical studies that accompany building plans must demonstrate that the structure has been

designed to limit interior noise in habitable rooms to acceptable noise levels. For new multifamily residential buildings, the acceptable interior noise limit for new construction is 45 dBA CNEL.

Local

City of Gardena Municipal Code

The City also has regulations to control unnecessary, excessive, and annoying noise, as set forth in the City's Noise Ordinance (Chapter VIII, Noise Regulation, of the Gardena Municipal Code [GMC]). The City's Noise Ordinance establishes acceptable ambient sound levels to regulate intrusive noises (e.g., stationary mechanical equipment and vehicles other than those traveling on public streets) within specific land use zones and provides procedures and criteria for the measurement of the sound level of noise sources. These procedures recognize and account for differences in the perceived level of different types of noise and/or noise sources.

The Gardena Municipal Code establishes the following noise provisions relative to the Project:

A.

Table 3.9-3. Allowable Exterior Noise Level (dBA)

Type of Land Use	15-Minute Average Noise Level (L_{eq})		Maximum Noise Level (L_{max})	
	7 a.m. to 10 p.m.	10 p.m. to 7 a.m.	7 a.m. to 10 p.m.	10 p.m. to 7 am
Residential	55	50	75	70
Residential portions of mixed-use	60	50	80	70
Commercial	65	60	85	80
Industrial or manufacturing	70	70	90	90

Section 8.36.040 – Exterior Noise Standards

A. The exterior noise standards in Table 3.9-3, unless otherwise specifically indicated, shall apply to all property within the City. The Land Use category refers to the affected receiver property:

   In the event the alleged offensive noise contains a pure tone such as a whine, screech, or hum, or contains repetitive, impulsive or impact noise such as hammering or riveting, or contains music or speech conveying informational content, each of the above noise standards shall be reduced by 5 dB.

A. No person shall operate or cause to be operated, any source of sound at any location within the incorporated City or allow the creation of any noise on property owned, leased, occupied or otherwise controlled by such person, which causes the noise level when measured from any other property, either incorporated or unincorporated, to exceed the noise standards of paragraph (A).
B. In the event the ambient noise level exceeds the noise standard, the ambient noise level shall become the noise standard. (Ord. 1683, 2006; Urg. Ord. 1682, 2006)

Table 3.9-4. Allowable Interior Noise Level (dBA)

Type of Land Use	15-Minute Average Noise Level (L_{eq})		Maximum Noise Level (L_{max})	
	7 a.m. to 10 p.m.	10 p.m. to 7 am	7 a.m. to 10 p.m.	10 p.m. to 7 am
Residential	45	40	65	60
Residential portions of mixed-use	45	40	70	60

Section 8.36.050 – Interior Noise Standards

A. The interior noise standards in Table 3.9-4, unless otherwise specifically indicated, shall apply to all residential dwellings with windows in their normal seasonal configuration, where such dwelling is the receiver of intrusive noise:n the event the alleged offensive noise contains a pure tone such as a whine, screech, or hum, or contains repetitive, impulsive or impact noise such as hammering or riveting, or contains music or speech conveying informational content, each of the above noise standards shall be reduced by 5 dB.
B. No person shall operate or cause to be operated, any source of sound at any location within the incorporated City or allow the creation of any noise on property owned, leased, occupied or otherwise controlled by such person, which causes the noise level when measured within any residential dwelling, either incorporated or unincorporated, to exceed the noise standards of paragraph (A).
C. In the event the ambient noise level exceeds the noise standard, the ambient noise level shall become the noise standard. (Ord. 1683, 2006; Urg. Ord. 1682, 2006)

Section 8.36.070 – Prohibited Acts – General Standards

Notwithstanding any other provisions of this chapter and in addition thereto, it shall be unlawful for any person to willfully make or continue or cause to be made or continued, any loud, unnecessary and unusual noise which disturbs the peace or quiet of any neighborhood or which causes discomfort or annoyance to any reasonable person of normal sensitivity:

A. Loading and Unloading. Loading, unloading, opening, closing or other handling of boxes, crates, containers, building materials, garbage cans, or similar objects between the hours of

10:00 p.m. and 7:00 a.m. in such a manner as to cause a noise disturbance across a residential real property line or at any time to violate the provisions of Section 8.36.040 or 8.36.050;

B. Powered Model Vehicles. Operating or permitting the operation of powered model vehicles:
   a. Between the hours of 7:00 p.m. and 7:00 a.m. so as to create a noise disturbance across a residential or commercial real property line or at any time to violate the provisions of Section 8.36.040 or 8.36.050.
   b. In such a manner as to exceed the levels set forth in Section 8.36.040, measured at a distance not less than 100 feet from any point on the path of a vehicle operating on public space or public right-of-way, if any.

Section 8.36.080 – Exemptions

The provisions of this chapter shall not apply to:

A. Noise associated with construction, repair, remodeling, grading or demolition of any real property, provided said activities do not take place between the hours of 6:00 p.m. and 7:00 a.m. on weekdays, between the hours of 6:00 p.m. and 9:00 a.m. on Saturday, or any time on Sunday or a federal holiday.

B. Noise from occasional outdoor events/activities, outdoor gatherings, public dances, shows, and sporting and entertainment events, provided said events are conducted pursuant to a permit or license issued by the City relative to the staging of said event.

City of Gardena General Plan

Adopted on April 16, 2006, the City of Gardena General Plan (Gardena General Plan) Noise Element provides guidance for the control of noise to protect residents, workers, and visitors from potentially adverse noise impacts. Its primary goal is to regulate long-term noise impacts to preserve acceptable noise environments for all types of land uses. The Noise Element defers regulation of temporary, point-source noises such as construction activities to the City's Municipal Code Noise Ordinance. With regard to long-term noise impacts, the Noise Element contains stated goals, objectives, policies, and implementation programs for noise control.

Goal: Incorporate noise considerations into land use planning decisions.

Policy 2.5: Require proposed projects to be reviewed for compatibility with nearby noise-sensitive land uses with the intent of reducing noise impacts.

Policy 2.7: Require new commercial/industrial operations located in proximity to existing or proposed residential areas to incorporate noise mitigation into the project design.

Noise/Land Use Compatibility

The noise criteria identified in the Gardena Noise Plan are guidelines to evaluate noise/land use compatibility. The compatibility criteria, shown on Table 3.9-5, provide the City with a planning tool to gauge the compatibility of land uses relative to existing and future exterior noise levels. The Noise/Land Use Compatibility Matrix describes categories of compatibility and not specific noise standards.

Table 3.9-5. Gardena Noise/Land Use Compatibility Matrix

Land Use Category	Exterior Noise Level (CNEL in dBA)						
	< 55	55	60	65	70	75	80
Residential- single family residences, multi-family residences, senior housing, convalescent homes	A	A	B	C	C	D	D
Residential- mobile homes, mixed-use (commercial/residential)	A	A	B	C	C	D	D
Transient Lodging- motels, hotels, resorts	A	A	B	B	C	C	D
Auditoriums, Concert Halls, Amphitheaters, Meeting Halls	B	B	C	C	D	D	D
Sports Arenas, Outdoor Spectator Sports, Amusement Parks	A	A	A	B	B	D	D
Playgrounds, Neighborhood Parks	A	A	A	B	C	D	D
Golf Courses, Riding Stables, Cemeteries	A	A	A	A	B	C	C
Office and Professional Buildings	A	A	A	B	B	C	D
Commercial Retail, Banks, Restaurants, Theaters	A	A	A	A	B	B	C
Industrial, Manufacturing, Utilities, Wholesale, Service Stations	A	A	A	A	B	B	B
Agriculture	A	A	A	A	A	A	A
A	NORMALLY ACCEPTABLE—Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal construction, without any special noise insulation requirements.						
B	CONDITIONALLY ACCEPTABLE—New construction or development should be undertaken only after a detailed analysis of the noise requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.						

Table 3.9-5. Gardena Noise/Land Use Compatibility Matrix

Land Use Category	Exterior Noise Level (CNEL in dBA)						
	< 55	55	60	65	70	75	80
C	NORMALLY UNACCEPTABLE—New construction or development should generally be discouraged. If it does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.						
D	UNACCEPTABLE—New construction or development shall not be undertaken.						

Source: Noise Plan in City of Gardena 2006

3.9.3 Thresholds of Significance

Appendix G of the California Environmental Quality Act (CEQA) Guidelines contains analysis guidelines related to noise impacts. These guidelines have been used by the City to develop thresholds of significance for this analysis. A project would create a significant environmental impact if it would:

A. Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?
B. Generate excessive ground-borne vibration or ground-borne noise levels?
C. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

Based on the results of the Initial Study prepared for the Project (Appendix A), the Project is not within the vicinity of an airstrip or airport and would not expose people residing or working in the Project area to excessive noise levels. As such, the following thresholds are evaluated in this section of the Draft EIR:

NOI-1. Would the Project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

NOI-2. Would the Project generate excessive ground-borne vibration or ground-borne noise levels?

3.9.4 Impact Analysis

Threshold NOI-1. Would the Project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Construction

Construction noise typically occurs intermittently and varies depending on the nature or phase of construction (e.g., land clearing, grading, excavation, paving). Noise generated by construction equipment, including earth movers, material handlers, and portable generators, can reach high levels. During construction, exterior noise levels could affect the residential neighborhoods near the construction site. However, it is acknowledged that construction activities would occur throughout the Project site and would not be concentrated at a single point near noise-sensitive receptors.

Construction activities would include site preparation, grading, building construction, paving, and architectural coating. Such activities would require tractors and dozers during site preparation; graders, dozers, excavators, and tractors during grading; cranes, forklifts, generators, tractors, and welders during building construction; pavers, rollers, mixers, and paving equipment during paving; and air compressors during architectural coating. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full power operation followed by 3 to 4 minutes at lower power settings. Other primary sources of acoustical disturbance would be random incidents, which would last less than 1 minute (such as dropping large pieces of equipment or the hydraulic movement of machinery lifts). Noise generated by construction equipment, including earth movers, material handlers, and portable generators, can reach high levels. Typical noise levels associated with individual pieces of construction equipment are listed in Table 3.9-6. It should be noted that the noise levels shown in Table 3.9-6 are maximum noise levels (i.e., the equipment engine at maximum speed). However, equipment used on construction sites typically operate under less-than-full-power conditions.

Table 3.9-6. Typical Construction Noise Levels

Equipment	Typical Noise Level (dBA L_{max}) at 50 feet from Source	Typical Noise Level (dBA L_{max}) at 100 feet from Source[1]
Air Compressor	80	74
Backhoe	80	74
Compactor	82	76
Concrete Mixer	85	79
Concrete Pump	82	76
Concrete Vibrator	76	70
Crane, Mobile	83	82
Dozer	85	77
Generator	82	79
Grader	85	76
Impact Wrench	85	79
Jack Hammer	88	79

Table 3.9-6. Typical Construction Noise Levels

Equipment	Typical Noise Level (dBA L_{max}) at 50 feet from Source	Typical Noise Level (dBA L_{max}) at 100 feet from Source[1]
Loader	80	82
Paver	85	74
Pneumatic Tool	85	71
Pump	77	79
Roller	85	70
Saw	76	79
Scraper	85	76
Shovel	82	78
Truck	84	74

Source: Appendix I.
Notes: dBA = A-weighted decibel; L_{max} = maximum A-weighted sound level.
1. Calculated using the inverse square law formula for sound attenuation: $dBA_2 = dBA_1+20Log(d_1/d_2)$
Where: dBA_2 = estimated noise level at receptor; dBA_1 = reference noise level; d_1 = reference distance; d_2 = receptor location distance

Noise-sensitive uses closest to the Project site include residences located approximately 15 feet west and 150 feet east of the Project site. Following the methodology for quantitative construction noise assessments in the FTA's Transit Noise and Vibration Impact Assessment Manual (FTA 2018), the FHWA Roadway Construction Noise Model (RCNM) was used to predict construction noise at the nearest off-site receptors. RCNM is a computer program used to assess construction noise impacts and allows for user-defined construction equipment and user-defined noise limit criteria. Noise levels were calculated for each construction phase and are based on the equipment used, distance to the nearest property/receptor, and acoustical usage factor for equipment.

Although the GMC does not have a quantitative construction noise limit, a 10 dBA sound difference is estimated to be a doubling of the perceived loudness and is used as the construction noise threshold in this analysis. Table 3.9-7 shows estimated exterior construction noise levels at the nearest receptors without accounting for attenuation from physical barriers or topography. Construction equipment was assumed to operate at the nearest Project property line approximately 15 to 408 feet from the nearest residential uses. As indicated in Table 3.9-7, the highest anticipated construction noise level of 95.6 dBA would occur during the site preparation phase at the residential receptors to the west of the Project site and would result in ambient noise level increases that would range from 0.1 dBA to 33.8 dBA at the nearest receptors. As such, Project construction noise levels would exceed the 10 dBA incremental increase threshold. The highest noise level increases above 10 dBA would be concentrated on the western portion of the Project site where the primary construction activities (i.e., construction of the self-storage portion of the building) would occur.

Mitigation Measure (MM) NOI-1 requires the construction of a minimum 8-foot-high noise barrier along the western Project boundary to reduce construction noise levels at the residential uses directly west of the Project site. Implementation of MM NOI-1 would provide an approximate 12 dBA noise reduction at these receptors, which is a substantial decrease compared to unmitigated conditions.

However, as shown in Table 3.9-7, construction noise levels would still exceed ambient noise levels by more than 10 dBA at the nearest sensitive receptors to the west of the Project site despite implementation of MM NOI-1.

The Project would be required to comply with Section 8.36.080 of the GMC, which restricts construction to between the hours of 7:00 a.m. and 6:00 p.m. on weekdays, between 9:00 a.m. and 6:00 p.m. on Saturdays, and prohibits construction on Sundays and national holidays. It should also be noted that traffic noise along Artesia Boulevard and Normandie Avenue would partially mask construction noise emanating from the Project site. However, due to the increase in ambient noise levels, impacts associated with Project on-site construction activities would remain **significant and unavoidable** despite implementation of MM NOI-1.

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Table 3.9-7. Project Construction Noise Levels (dBA)

Construction Phase	Land Use	Direction	Ambient Noise Level[1] (dBA L_{eq})	Without Noise Barrier				With 8-Foot Noise Barrier			
				Construction Noise Level (dBA L_{eq})[2]	Ambient + Construction (dBA L_{eq})[3]	Increase Over Ambient	Increase Exceeds 10 dBA?	Construction Noise Level[2] (dBA L_{eq})	Ambient + Construction (dBA L_{eq})[3]	Increase Over Ambient	Increase Exceeds 10 dBA?
Demolition	Residential	East	69.6	76.9	77.6	8.0	No	64.9	70.9	1.3	No
	Commercial	North	71.3	67.9	72.9	1.6	No	55.9	71.4	0.1	No
	Residential	Northwest	51.8	66.8	66.9	**15.1**	**Yes**	54.8	56.6	4.8	No
	Residential	West	61.8	94.4	94.4	**32.6**	**Yes**	82.4	82.4	**20.6**	**Yes**
Site Preparation	Residential	East	69.6	78.1	78.7	9.1	No	66.1	71.2	1.6	No
	Commercial	North	71.3	69.0	73.3	2.0	No	57.0	71.5	0.2	No
	Residential	Northwest	51.8	68.0	68.1	**16.3**	**Yes**	56.0	57.4	5.6	No
	Residential	West	61.8	95.6	95.6	**33.8**	**Yes**	83.6	83.6	**21.8**	**Yes**
Grading	Residential	East	69.6	77.7	78.3	8.7	No	65.7	71.1	1.5	No
	Commercial	North	71.3	68.7	73.2	1.9	No	56.7	71.4	0.1	No
	Residential	Northwest	51.8	67.6	67.7	**15.9**	**Yes**	55.6	57.1	5.3	No
	Residential	West	61.8	95.2	95.2	**33.4**	**Yes**	83.2	83.2	**21.4**	**Yes**
Building	Residential	East	69.6	76.5	77.3	7.7	No	64.5	70.8	1.2	No
	Commercial	North	71.3	67.5	72.8	1.5	No	55.5	71.4	0.1	No
	Residential	Northwest	51.8	66.4	66.5	**14.7**	**Yes**	54.4	56.3	4.5	No
	Residential	West	61.8	94.0	94.0	**32.2**	**Yes**	82.0	82.0	**20.2**	**Yes**
Paving	Residential	East	69.6	77.0	77.7	8.1	No	65.0	70.9	1.3	No
	Commercial	North	71.3	67.9	72.9	1.6	No	55.9	71.4	0.1	No
	Residential	Northwest	51.8	66.9	67.0	**15.2**	**Yes**	54.9	56.6	4.8	No
	Residential	West	61.8	94.5	94.5	**32.7**	**Yes**	82.5	82.5	**20.7**	**Yes**
Architectural Coating	Residential	East	69.6	64.2	70.7	1.1	No	52.2	69.7	0.1	No
	Commercial	North	71.3	55.1	71.4	0.1	No	43.1	71.3	0.0	No
	Residential	Northwest	51.8	54.1	56.1	4.3	No	42.1	52.2	0.4	No
	Residential	West	61.8	81.7	81.7	**19.9**	**Yes**	69.7	70.4	8.6	No

Source: FHWA 2006. Refer to Appendix I for noise modeling results.

Notes:

1 Ambient daytime noise levels obtained by Kimley-Horn and Associates on June 15, 2022; see Appendix I.

2 Noise levels calculated using the Federal Highway Administration (2006) Roadway Construction Noise Model. Refer to Appendix I.

3 Combined noise levels calculated based on the logarithmic addition of decibels.

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Operations

Implementation of the proposed Project would create new sources of noise in the site vicinity. The major noise sources associated with the Project that would potentially impact existing nearby residences include stationary noise equipment (i.e., air conditioning equipment); activities associated with loading/unloading storage items; parking areas (i.e., car door slamming, car radios, engine start-up, and car pass-bys); and off-site traffic noise. Given the nature of the Project, the operational noises would not be constant and would occur infrequently. Each stationary source is discussed below in further detail. Although a temporary noise barrier is included in the construction noise analysis, there are no noise barriers assumed for the operational noise analysis.

Mechanical Equipment

Potential stationary noise sources related to long-term operation of the Project would include mechanical equipment (e.g., heating ventilation and air conditioning [HVAC] equipment), which typically generates noise levels of approximately 52 dBA at 50 feet (Berger et al. 2015). For the purposes of a conservative analysis, mechanical equipment at the Project site is assumed to be located at the edge of Project buildings closest to the nearest sensitive receptors. Based on the Project site plans, the nearest sensitive receptors (residences) would be located approximately 50 feet west and 500 feet east of on-site mechanical equipment. As indicated in Table 3.9-8, noise levels from mechanical equipment at the Project site would not exceed the City's standards at the nearest residential uses in compliance GMC Section 8.36.040, and impacts would be **less than significant**.

Storage Loading/Unloading Activities

Self-storage unit leasers would access the site via private vehicles or small single-unit truck rentals to drop off or pick up their personal items from the storage units and then exit the site. Access to the site would occur along Artesia Boulevard. Loading/unloading activities would generate noise levels up to approximately 61 dBA at a distance of 50 feet (Kariel 1991). The nearest noise-sensitive receptors (i.e., residences) to the proposed storage loading/unloading activities would be approximately 75 feet to the west of storage loading/unloading activities at the Project site. Table 3.9-8 shows that storage loading and unloading activities will not exceed the City's standards outlined in GMC Section 8.36.070. In addition, individuals would use these facilities periodically and storage activities would occur throughout the Project site, resulting in lower noise levels than these estimates. Therefore, the Project would result in a **less-than-significant** impact concerning storage loading/unloading activity noise levels.

Truck and Loading Dock Noise

During loading and unloading activities, noise would be generated by the trucks' diesel engines, exhaust systems, and brakes during low gear shifting braking activities; backing up toward the docks; dropping down the dock ramps; and maneuvering away from the docks. Truck and loading dock noise is typically 64.4 dBA L_{eq} at 50 feet (see Appendix I). The proposed warehouse building includes dock-high doors for truck loading/unloading and manufacturing/light industrial operations. The dock-high doors are approximately 360 feet from the residential property line to the west.

Based on distance attenuation, noise levels due to loading/unloading would be reduced to approximately 47.3 dBA at the live/work and multifamily residences to the west of the truck loading dock areas. Note that this noise level conservatively assumes activity would occur at the three closest loading docks simultaneously. At the closest non-residential property line (commercial uses to the north across Artesia Boulevard), truck loading dock noise levels would be approximately 46.0 dBA. As indicated in Table 3.9-8, loading/unloading noise levels would not exceed the City's noise standards at the nearest residential or commercial uses per GMC Section 8.36.070.

Furthermore, loading dock doors would also be surrounded with protective aprons, gaskets, or similar improvements that, when a trailer is docked, would serve as a noise barrier between the interior warehouse activities and the exterior loading area. This would attenuate noise emanating from interior activities. As described above, noise levels associated with trucks and loading/unloading activities would not exceed the City's standards, and impacts would be **less than significan**t.

Parking Noise

The Project would provide 124 parking spaces positioned throughout the property. Nominal parking noise would occur within the on-site parking facilities. Traffic associated with parking lots is typically not of sufficient volume to exceed community noise standards, which are based on a time-averaged scale such as the CNEL scale. The instantaneous maximum sound levels generated by a car door slamming, engine starting up, and car pass-bys range from 53 to 61 dBA at 50 feet (Kariel 1991) and may be an annoyance to adjacent noise-sensitive receptors. However, as shown in Table 3.9-8, parking lot noise would not exceed the City's standards at the nearest residential uses in compliance GMC Section 8.36.040, and impacts would be **less than significant**.

Combined Stationary Source Noise Levels

Section 8.36.060 (Noise Measurement Procedure) of the GMC provides procedures and criteria for the measurement of the sound level of standard and "offending" noise sources. According to GMC Section 8.36.040(c), a noise level over the established land use noise standard or existing average ambient noise level (whichever is higher) at an adjacent property line is considered a noise violation. As indicated in Table 3.9-8, the combined noise level from the Project's stationary noise sources would not exceed the City's noise standards at the nearest noise-sensitive uses. Therefore, a **less-than-significant** impact would occur in this regard.

Table 3.9-8. Stationary Source Noise Levels (dBA)

Nearest Land Use	Direction	Distance (feet)[1]	Reference Noise Level at 50 ft	Noise Level at Receiver	Daytime Ambient Noise Level[2]	Daytime Exterior Threshold[3]	Nighttime Ambient Noise Level[4]	Nighttime Exterior Threshold[3,5]	Exceed Threshold?
Mechanical Equipment									
Residential	East	500	52 dBA[7]	32.0	69.6	69.6	N/A	50	No
Commercial	North	150		42.5	71.3	71.3	N/A	60	No
Residential	Northwest	536		31.4	51.8	55	N/A	50	No
Residential	West	50		47.0	61.8[11]	61.8	57.8	57.8	No
Storage Loading/Unloading Activities									
Residential	East	500	61 dBA[7]	41.0	69.6	69.6	N/A	N/A	No
Commercial	North	280		46.0	71.3	71.3	N/A	N/A	No
Residential	Northwest	535		40.4	51.8	55	N/A	N/A	No
Residential	West	75		57.5	61.8[11]	61.8	N/A	N/A	No
Truck and Loading Docks Activities									
Residential	East	444	64.4 dBA[8]	42.0	69.6	69.6	N/A	N/A	No
Commercial	North	416		46.0	71.3	71.3	N/A	N/A	No
Residential	Northwest	888		39.4	51.8	55	N/A	N/A	No
Residential	West	360		47.3	61.8[11]	61.8	N/A	N/A	No
Parking Area									
Residential	East	300	61 dBA[6]	45.4	69.6	69.6	N/A	N/A	No
Commercial	North	175		50.1	71.3	71.3	N/A	N/A	No
Residential	Northwest	480		41.4	51.8	55	N/A	N/A	No
Residential	West	360		43.9	61.8[11]	61.8	N/A	N/A	No
Combined Noise Level (Mechanical Equipment + Storage Loading/Unloading Activities + Truck and Loading Docks + Parking Area)[9]									
Residential	East	N/A[10]	67.3 dBA[9]	48.1	69.6	69.6	N/A	N/A	No

Table 3.9-8. Stationary Source Noise Levels (dBA)

Nearest Land Use	Direction	Distance (feet)[1]	Reference Noise Level at 50 ft	Noise Level at Receiver	Daytime Ambient Noise Level[2]	Daytime Exterior Threshold[3]	Nighttime Ambient Noise Level[4]	Nighttime Exterior Threshold[3,5]	Exceed Threshold?
Commercial	North	N/A[10]		53.0	71.3	71.3	N/A	N/A	No
Residential	Northwest	N/A[10]		45.4	51.8	55	N/A	N/A	No
Residential	West	N/A[10]		58.4	61.8[11]	61.8	N/A	N/A	No

Source: Appendix I.

Notes:

1 Distance measured from the location of the noise source to the nearest receptor property line.

2 Ambient noise levels obtained by Kimley-Horn and Associates on June 15-16, 2022; see Table 3.9-1.

3 The City's noise standards are outlined in City of Gardena MC 8.36.040. The exterior threshold used for stationary source impact analysis was the highest of the City's noise standard or the measured ambient noise level. Per City code, 8.36.040 (C), if the ambient noise level exceeds the noise standard, the ambient noise level shall become the noise standard.

4 The ambient nighttime noise level for the residential receptors to the west was derived from the long-term measurement data obtained by Kimley-Horn and Associates on June 15-16, 2022. Nighttime ambient noise was not measured at any other receptor locations; therefore, only nighttime ambient data for the residential receptors to the west is provided in this table.

5 The City's nighttime standards only apply to mechanical equipment because storage loading/unloading activities, truck and dock use activities, and use of the parking lot would cease at 10:00 p.m. in accordance with GMC Section 8.36.070. Since the Project is climate controlled, it is reasonable to assume that mechanical equipment on site would be running 24 hours a day.

6 Berger et al. 2015.

7 Kariel 1991.

8 Loading dock reference noise level measurements conducted by Kimley-Horn and Associates on December 18, 2018.

9 Calculated based on the logarithmic decibel scale and the reference noise levels for mechanical equipment, storage loading/unloading, and parking area noise levels identified above.

10 Since each stationary source is located at various locations throughout the site and at different distances from the receptors, a composite distance is not possible.

11 Ambient daytime noise levels obtained by Kimley-Horn and Associates on June 15, 2022 from long-term measurement, see Appendix I for LT-1 data.

Truck Pass-Bys

Trucks will enter the Project site via the access driveway at the northwest corner and traverse south along the western property line and then east to reach the loading dock area. The nearest sensitive receptors are the live/work and multifamily residential uses directly to the west, approximately 25 feet from the centerline of the truck drive aisle. Using a reference noise level of 68 dBA Lmax at 30 feet for a truck pass-by (Salter 2014), distance attenuation values were calculated and are provided in Table 3.9-9. Based on trip generation data provided in the 1450 Artesia Boulevard Local Transportation Assessment (Kimley-Horn and Associates, December 2022a), the proposed Project would generate approximately 75 daily truck trips, or approximately five truck trips per hour (assuming the Project would operate for a total of 15 hours from 7:00 a.m. to 10:00 p.m.). As shown in Table 3.9-9, one truck pass-by in a 15-minute period would generate exterior noise levels up to approximately 50.1 dBA Leq (15-minute), and a single-truck pass-by would result in a maximum exterior noise level of approximately 69.6 dBA Lmax at the live/work residences and would not exceed the City's daytime noise standards in compliance GMC Section 8.36.040. Interior noise levels from truck pass-bys would also not exceed the City's interior noise standards set forth in GMC Section 8.36.050 (see Table 3.9-9). Also, the Project would operate only during the 7 a.m. to 10 p.m. hours set forth in the GMC, which allows higher decibel levels, and therefore, truck pass-by noise is solely evaluated against those noise standards.

Table 3.9-9. Truck Pass-by Noise Levels at the Closest Noise-Sensitive Receptor

	Exterior Noise		Interior Noise[1]	
	15-Minute Noise Level (dBA L_{eq})	Maximum Noise Level (dBA L_{max})	15-Minute Noise Level (dBA L_{eq})	Maximum Noise Level (dBA L_{max})
Source	7 a.m. to 10 p.m.	7 a.m. to 10 p.m.	7 a.m. to 10 p.m.	7 a.m. to 10 p.m.
Truck Pass-by[2]	50.1	69.6	38.1	57.6
Mixed-Use Residential Standard	*61.8*[3]	*75*	*45*	*70*
Exceeds Standard?	*No*	*No*	*No*	*No*

Notes: dBA = A-weighted decibel; L_{max} = maximum A-weighted sound level.

1 Interior noise levels calculated using a standard exterior-to-interior noise reduction of 12 dBA for windows open condition (EPA 1978).

2 Truck pass-by noise levels calculated using the following parameters:
- A maximum of one truck trip would occur in a 15-minute period to evaluate impacts against the City's 15-minute average (dBA L_{eq}) standard;
- A single truck trip/pass-by was assumed to evaluate impacts against the City's maximum (L_{max}) noise standard; and
- A single truck pass-by would last for approximately 10 seconds.

Per GMC Section 8.36.040 (C), if the ambient noise level exceeds the noise standard, the ambient noise level shall become the noise standard. The measured daytime noise level currently exceeds the City's mixed-use residential noise standard at the live/work residences to the west; therefore, the ambient noise level is used to analyze Project impacts.

Special Events

The Project has also obtained a permit by the City of Gardena to host occasional special events including farmers markets, outdoor trade shows, and live music that may result in the gathering of large crowds, use of loudspeakers, and on-site, portable generators. The various special events to be hosted two to three times per month are anticipated to attract an average of 250 attendees in addition to the 725 estimated daily vehicle trips. These 250 attendees are estimated to generate an additional 220 vehicle trips to the Project site on special event days (Kimley-Horn and Associates 2022b).

Music

The various activities for special events could involve amplified live or recorded music. Amplified music is typically 91 dBA at 25 feet (see Appendix I) and would be 67.8 dBA at the closest receptors (live/work and multifamily residences to the west), conservatively assuming the worst-case scenario that the noise source would be at the western edge of the special events zone (approximately 360 feet from the western property line). As such, music noise levels would have the potential to exceed the City's daytime noise standard of 60 dBA for mixed-use residential uses established in GMC Section 8.36.040, thereby resulting in potentially significant impacts. Pursuant to GMC Section 8.36.080, the types of events and gatherings anticipated for the Project that would involve amplified music would be exempt from noise level limits. However, Mitigation Measure MM-NOI-2 prohibits amplified music after 10:00 p.m. and requires that amplified noise sources shall be directed away from the nearest noise-sensitive receptors as well as being tilted downward to focus sound on the ground and prevent it from traveling up towards noise-sensitive receptors. Amplification systems are also required to be distributed to minimize sound levels closest to individual sources. **Impacts would be less than significant with the implementation of MM-NOI-2**.

Crowds

Crowd noise from special events at the Project site may be audible at the nearest noise-sensitive receptors (i.e., residences directly west and to the east across Normandie Avenue) due to noise generated by groups of people. Such noise is dependent on several factors including vocal effort, impulsiveness, and the random orientation of the crowd members. Crowd noise is estimated at 60 dBA at 1 meter (3.28 feet) away for raised normal speaking (Hayne et al. 2011). This noise level would have a positive 5 dBA adjustment for the impulsiveness of the noise source, and a negative-3 dBA adjustment for the random orientation of the crowd members. Therefore, crowd noise would be approximately 62 dBA at 1 meter from the source (Hayne et al. 2011). Crowd noise thus would be approximately 21.2 dBA at the closest receptors (live/work and multifamily residences to the west), conservatively assuming the worst-case scenario that the noise source would be at the western edge of the Special Events zone (approximately 360 feet from the western property line). Special events are not expected to occur after 10:00 p.m. and thus would not exceed the City's later exterior standards for the hours of 10:00 p.m. to 7:00 a.m.. MM-NOI-2 will ensure that no events and crowds congregate after the hours of 10:00 p.m. to 7:00 a.m. Therefore, impacts from crowd noise would be **less than significant**.

Generators

Portable generators could be used for special events at the Project site to power electric equipment, speakers, etc., which typically generate noise levels similar to the mechanical equipment discussed above for the Project (approximately 52 dBA at 50 feet) (Berger et al. 2015). As indicated in Table 3.9-8, noise levels from mechanical equipment at the Project site would not exceed the City's standards at the nearest residential uses in compliance GMC Section 8.36.040. Therefore, impacts from portable generators would be **less than significant**.

Off-Site Traffic Noise

Implementation of the Project would generate increased traffic volumes along nearby roadway segments. Based on the trip generation rates in the Project's Transportation Study Analysis (Kimley-Horn and Associates 2022a), the proposed Project would generate 725 daily trips and an additional 220 daily trips during special event days for a potential maximum of 945 daily trips, which would result in noise increases on Project area roadways. A previous traffic count determined a minimum of 47,000 average daily trips take place on Artesia Boulevard in Torrance (Caltrans 2022). In general, a traffic noise increase of less than 3 dBA is barely perceptible to people, while a 5 dBA increase is readily noticeable (FHWA 2022). Generally, traffic volumes on Project area roadways would have to approximately double (i.e., a 100% increase compared to existing conditions) for the resulting traffic noise levels to increase by 3 dBA. Since 945 maximum daily trips from the Project is a fraction of the minimum average daily trips along Artesia Boulevard (2%), permanent increases in ambient noise levels are expected to be less than 1 dBA and would result in a less-than-significant impact.

Furthermore, the peak-hour trip generation for special events is anticipated to be a maximum of 220 vehicles (Kimley-Horn and Associates 2022b). Assuming peak-hour trips on Artesia Boulevard (the primary access roadway to the Project site) are 10% of the existing ADT (i.e., an estimated 4,700 existing peak-hour trips – see EIR Transportation Section 3.10), 220 peak-hour trips from special events would result in less than a 5% increase in peak-hour traffic volumes along Artesia Boulevard and would create a noise level increase of less than 1 dBA. Therefore, traffic noise increases from Project-generated peak-hour traffic during special events would be **less than significant**.

Threshold NOI-2. Would the Project generate excessive ground-borne vibration or ground-borne noise levels?

Increases in ground-borne vibration levels attributable to the proposed Project would be primarily associated with short - term construction - related activities. The FTA has published standard vibration velocities for construction equipment operations in the FTA Noise and Vibration Impact Assessment Manual. The types of construction vibration impacts include human annoyance and building damage.

Building damage can be cosmetic or structural. Ordinary buildings that are not particularly fragile would not experience cosmetic damage (e.g., plaster cracks) at distances beyond 30 feet. This distance can vary substantially depending on soil composition and underground geological layers between a vibration source and receiver. In addition, not all buildings respond similarly to vibration generated by construction equipment. For example, for a building that is constructed with reinforced concrete with no plaster, the FTA guidelines show that a vibration level of up to 0.20 in/sec peak

particle velocity (PPV) is considered safe and would not result in any vibration damage. Human annoyance occurs when construction vibration rises significantly above the threshold of human perception for extended periods of time. The GMC identifies 0.01 in/sec PPV as the approximate threshold for annoyance.

The nearest sensitive receptors are the residences located approximately 15 feet to the west of the Project site. However, since construction activity would be intermittent and the use of heavy construction equipment would be spread throughout the Project site and not concentrated at the point closest to sensitive uses of off-site properties for an extended period of time, it is assumed the concentration of construction activity for the purposes of this vibration analysis would occur no closer than 25 feet from the nearest sensitive receptors. Table 3.9-10 lists vibration velocities at 25 feet for typical construction equipment. Ground-borne vibration generated by construction equipment spreads through the ground and diminishes in magnitude with increases in distance.

Table 3.9-10. Typical Construction Equipment Ground-borne Vibration Velocities

Equipment	Peak Particle Velocity at 25 Feet (in/sec)
Large Bulldozer	0.089
Loaded Trucks	0.076
Jackhammer	0.035
Small Bulldozer/Tractors	0.003

Source: Appendix I.
Notes:

1. Calculated using the following formula: $PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$, where: PPV_{equip} = the peak particle velocity in in/sec of the equipment adjusted for the distance; PPV_{ref} = the reference vibration level in in/sec from Table 7-4 of the Federal Transit Administration (2018) Transit Noise and Vibration Impact Assessment Manual; D = the distance from the equipment to the receiver.

As indicated in Table 3.9-10, vibration velocities from typical heavy construction equipment used during Project construction would range from 0.003 to 0.089 in/sec PPV at 25 feet and would exceed the GMC 0.01 in/sec threshold. Therefore, construction vibration levels at the nearest sensitive receptors (25 feet from Project construction activities) would be potentially significant and mitigation is required. MM NOI-3 requires a Vibration Management Plan that requires minimum setbacks for heavy machinery and limits the use of substantial vibration-generating equipment (e.g., pile drivers) to ensure that construction activities would not exceed the City's vibration threshold of 0.01 in/sec PPV at off-site uses. Table 3.9-11 shows the mitigated vibration levels at the affected sensitive receptors. Therefore, impacts from construction vibration would be **less than significant with implementation of MM NOI-3**.

Table 3.9-11. Mitigated Construction Vibration Levels

Nearest Land Use	Direction	Distance (feet)[1]	Reference PPV at 25 ft[2] (in/sec)	PPV at Receiver (in/sec)	GMC Vibration Threshold (in/sec)	Exceed Threshold?
Large Bulldozers						
Residential	West	105	0.089	0.01	0.01	No
Loaded Trucks						
Residential	West	95	0.076	0.01	0.01	No
Jackhammers						
Residential	West	54	0.035	0.01	0.01	No

Source: FTA 2018.
Notes:
1 Distances to sensitive receptors were determined by Mitigation Measure NOI-3 for each equipment type.
2 Calculated using the following formula: $PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$, where: PPV_{equip} = the peak particle velocity in in/sec of the equipment adjusted for the distance; PPV_{ref} = the reference vibration level in in/sec from Table 7-4 of the Federal Transit Administration (2018) Transit Noise and Vibration Impact Assessment Manual; D = the distance from the equipment to the receiver.

Once operational, the Project would not be a significant source of ground-borne vibration. Ground-borne vibration surrounding the Project currently results from heavy-duty vehicular travel (e.g., refuse trucks, heavy duty trucks, delivery trucks, and transit buses) on the nearby local roadways. Operations of the proposed Project would include activities associated with a self-storage center (i.e., parking, opening and closing storage unit doors, moving objects in and out of units, etc.) that typically would not cause excessive ground-borne vibrations. Due to the rapid drop-off rate of ground-borne vibration and the short duration of the associated events, vehicular traffic-induced ground-borne vibration is rarely perceptible beyond the roadway right-of-way, and rarely results in vibration levels that cause damage to buildings in the vicinity. According to the FTA's Transit Noise and Vibration Impact Assessment Manual, trucks rarely create vibration levels that exceed 65 VdB (equivalent to 0.007 in/sec PPV) at 50 feet when they are on roadways. Therefore, trucks operating at the Project site or along surrounding roadways would not exceed FTA or GMC thresholds for building damage or annoyance. Impacts would be **less than significant** in this regard.

3.9.5 Mitigation Measures

In order to reduce potentially significant noise and vibration impacts associated with construction and on-site gatherings, mitigation measures MM-NOI-1, MM-NOI-2, and MM-NOI-3, as outlined below, are required.

MM-NOI-1. Construction Noise. Prior to issuance of a Demolition Permit, the Applicant shall demonstrate, to the satisfaction of the City of Gardena Building Official, that the construction contracts include at least an 8-foot-high temporary noise barrier along the

western Project boundary. The temporary noise barrier shall have a sound transmission class (STC) of 25 or greater in accordance with the ASTM Test Method E90, or at least 2 pounds per square foot to ensure adequate transmission loss characteristics. To achieve this, the barrier may consist of steel tubular framing, welded joints, a layer of 18-ounce tarp, a 2-inch thick fiberglass blanket, a 1/2-inch thick weatherwood asphalt sheathing, and 7/16-inch sturdy board siding. The barrier must be free of degrading holes or gaps and shall be designed to prevent structural failure due to factors such as wind, shear, shallow soil failure, earthquakes, and erosion.

MM-NOI-2. Special Event Noise. All City-sponsored special events shall be subject to the following requirements:

- Special Events shall be restricted to the hours of 7:00 a.m. to 10:00 p.m.
- Amplified noise sources (e.g., speakers, bandstands) shall be directed away from the nearest noise-sensitive receptors.
- Amplification systems will be positioned so that the tilt of the systems is downwards slightly to focus sound on the ground and prevent it from traveling up towards noise-sensitive receptors. Amplification systems will also be distributed to minimize sound levels closest to individual sources.

MM-NOI-3. Construction Vibration. The Project Applicant will require contractor(s) to comply with a Vibration Management Plan and implement minimum allowable setbacks from nearby buildings/structures to the west for heavy machinery. For all new construction, the contractor(s) will not use pile drivers, pavement breakers, or blasting equipment. In addition, when construction is required in direct proximity to the residences immediately west of the Project site, the contractor(s) will observe the following minimum allowable setbacks for specified construction equipment:

- Small bulldozer/tractors shall not be used within 11 feet of buildings to the west;
- Jackhammers shall not be used within 54 feet of any buildings to the west;
- Loaded trucks shall not be used within 95 feet of buildings to the west; and
- Large bulldozers shall not be used within 105 feet of any buildings to the west.

3.9.6 Level of Significance After Mitigation

Threshold NOI-1: Would the Project generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

With implementation of mitigation measures MM-NOI-1, MM-NOI-2, and MM-NOI-3, there would still be **significant and unavoidable construction noise** impacts because some noise-sensitive receptors to the west are so close to the Project boundary. The Project would result in a **less-than-significant impact** for operational noise with mitigation incorporated.

Threshold NOI-2: Would the Project generate excessive ground-borne vibration or ground-borne noise levels?

The Project would result in a **less-than-significant impact** from construction-related ground-borne noise and vibration **with the implementation of MM NOI-3**. The Project would result in a **less-than-significant impact** from operational ground-borne noise and vibration without mitigation.

3.9.7 Cumulative Effects

Noise in Excess of Standards

Implementation of the Project as well as unrelated development projects within its vicinity would all be subject to applicable noise standards (descriptions of the standards applicable within the City of Gardena are described throughout this noise section). On this basis, and because noise impacts of the Project with respect to relevant standards would be less than significant (except for construction-related noise and vibration impacts at sensitive receptors close to the Project boundaries), the Project would not contribute to cumulative exceedances of noise standards, and its incremental effect would be a less-than-significant impact.

Temporary/Periodic Increases in Ambient Noise Levels

The Project would result in temporary noise increases during construction activities, as discussed under Section 3.9.4, Impacts Analysis, above. The construction period of the Project has the potential to overlap with the construction of other development projects in the City. Due to the decrease in noise levels with distance and the presence of physical barriers (i.e., intervening buildings and topography), noise due to construction of other projects would not meaningfully combine with future development under the proposed Project to produce a cumulative noise effect during construction. By way of illustration, if there are two concurrent construction projects of comparable sound emission intensity, and the activity nearest to the studied noise-sensitive receptor is compliant with the City's applicable noise threshold, the other activity could be no closer than three times the distance of the receptor to the nearest activity and not make a cumulatively measurable contribution to the total and still City-compliant noise exposure level. If two concurrent projects were close to a receptor, the cumulative noise would be one of the following:

- The louder (in dBA) of the two concurrent activities
- A logarithmic sum of the two activity noise levels that, per acoustic principles, cannot be more than 3 dBA greater than the louder of the two individual noise-producing activities

In sum, cumulative construction noise is likely to be dominated by the closest or loudest activity to the receptor, and the combination will be no more than a barely perceptible difference (i.e., up to a 3 dBA change). Based on the cumulative project list included in Table 3-1, there are no construction projects that would potentially contribute construction noise that would, in combination with the Project, result in cumulative impacts. Thus, cumulative impacts associated with temporary increases in ambient noise levels would be considered less than significant.

Vibration

Construction-related vibration from future development under the Project was addressed under Threshold NOI-2 in Section 3.9.4 above. Other foreseeable projects within the vicinity of the Project site would not be close enough to create a combined excessive generation of ground-borne vibration; therefore, cumulative impacts associated with excessive ground-borne vibration would be less than significant.

Permanent Increase in Ambient Noise Levels

Off-Site Traffic

Future development from implementation of the Project along with other unrelated projects would generate off-site traffic noise. When calculating future traffic impacts, the traffic study included traffic attributed to both the Project and unrelated projects. Thus, future traffic noise prediction results with and without the Project already account for the cumulative impacts from unrelated projects contributing to traffic increases. Since the noise impacts are generated directly from the traffic analysis results, the traffic with and without the Project predicted increases in traffic noise levels described herein already reflect cumulative impacts. As described herein, the noise level increases associated with both of these scenarios would not exceed applicable standards. As such, anticipated increases would be below the significance thresholds; hence, the incremental effect of the Project on off-site traffic noise is not cumulatively considerable. Cumulative off-site traffic noise impacts would be less than significant.

Stationary Sources

Noise from operation of stationary mechanical equipment added to the outdoor ambient sound environment as a result of Project implementation would include permanent on-site noise sources (e.g., rooftop HVAC equipment) as addressed under Section 3.9.4, under Threshold NOI-1. A cumulative impact could occur if noise produced from such sources due to implementation of the Project were to combine with noise produced from the operation of other unrelated projects in the vicinity to create a cumulatively significant permanent increase in ambient noise levels. However, noise emission from HVAC equipment attenuates with distance and can be occluded by structures and terrain. Additionally, the operation of the Project, along with the operation of other unrelated projects, would be subject to applicable requirements from the City's noise ordinance, which limits the exterior noise levels at residences. Hence, for these two reasons, cumulative impacts to outdoor ambient noise levels resulting from Project stationary sources would be less than significant.

3.9.8 References

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SOURCE: County of Los Angeles; City of Gardena Specific Plan; Open Street Map; USGS NHD; KimleyHorn; Bing Maps

DUDEK

0 150 300 Feet

FIGURE 3.9-1

Noise Measurement Locations

1450 Artesia Specific Plan Draft EIR

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3.10 Transportation

This section identifies associated regulatory requirements; describes the existing traffic conditions within the proposed 1450 Artesia Specific Plan Project (Project); evaluates potential adverse impacts related to conflicts with an applicable program, plan, ordinance, or policy addressing the circulation system including transit, roadway, bicycle and pedestrian facilities; conflicts or inconsistencies with California Environmental Quality Act (CEQA) Guidelines Section 15064.3(b); increase in hazards due to a geometric design feature or incompatible uses and inadequate emergency access; lists any applicable Project Design Features (PDFs); and identifies mitigation measures related to implementation of the proposed Project. The transportation analysis shown in this section presents and uses the vehicle miles traveled (VMT) metric per CEQA requirements.

The 1450 Artesia Specific Plan Vehicle Miles Traveled (VMT) Analysis, prepared by Kimley Horn & Associates, December 5, 2023 was used in the preparation of this section of the Draft EIR. This report is included in Appendix J1 of this EIR. For informational purposes, an operational traffic analysis was also conducted for the Project and is summarized within Section 3.8, Land Use and Planning. This report is included as Appendix J2 to this EIR. An update to the trip generation analysis for the industrial uses of the project is included in Appendix J3.

As discussed in detail in Chapter 2, Project Description, of this EIR, the Project buildout (a total of 268,000 SF) includes the following components:

- Self-storage use (three levels over ground floor warehouse and leasing office totaling 186,000 GSF with 1,480 storage units),
- Industrial warehouse[1] use (one level totaling 72,000 GSF plus 10 loading docks),
- Office/retail use (a mezzanine totaling 10,000 GSF).

The Project would include 124 automobile parking stalls, which would require 25 electric vehicle (EV) capable parking spaces and 6 EV service contract parking spaces (charging stations).

3.10.1 Existing Conditions

This section provides a summary of the existing circulation network, bicycle and pedestrian facilities, truck routes and transit service.

Roadway Facilities

Regional access to the Project site is provided by Interstate (I) 405 located approximately 1.6 miles south of the Project site, State Route (SR) 91 located approximately 0.9 miles east of the Project site, and I-110 also located approximately 0.9 miles east of the Project site. I-105 is located approximately 8 miles north of the Project site.

[1] "Warehouse" includes distribution uses as set forth in the Project Description.

Local access to the Project site is provided by the following arterial and commuter roadways:

Artesia Boulevard is an east-west Arterial with three to four lanes in each direction within local City of Gardena jurisdiction. Artesia Boulevard transitions into SR-91 (Gardena Freeway) east of Vermont Avenue under Caltrans jurisdiction. Artesia Boulevard contains a raised median and the posted speed limit is 45 miles per hour (mph). There are left-turn pockets at all intersections. On-street parking is prohibited on both sides of Artesia Boulevard.

Normandie Avenue is a north-south Major Collector with two lanes in each direction that traverses the City of Gardena. Left-turn lanes are provided at major intersections. The posted speed limit is 35 mph. On-street parking is prohibited on both sides of the street. It is a designated truck route.

Western Avenue is a north-south Arterial with two lanes in each direction that traverses the City of Gardena. Left-turn lanes are provided at major intersections. The posted speed limit is 40 mph. On-street parking is allowed on both sides of the street. It is a designated truck route.

Figure 3.10-1 illustrates the City's roadway network.

Pedestrian and Bike Facilities

Existing sidewalks are provided along the Artesia Boulevard Project frontage and within a continuous and complete pedestrian network in the surrounding areas.

Figure 3.10-2 illustrates the City's proposed bike network consistent with the City of Gardena Circulation Plan Figure CI-4 and South Bay Bicycle Master Plan Figure 4-2, Existing Bicycle Facilities illustrates the locations of existing bikeways within the City. A Class III bicycle route exists along Normandie Avenue east of the Project site (i.e., between 170th Street and 182nd Street). There are no other existing or proposed bicycle facilities anear the Project site.

Transit Facilities

Public transportation in the City consists of local and regional fixed-route bus service, which provides viable alternatives to the use of private automobiles.

Transit service near the Specific Plan area is provided by the three services: LA Metro, GTrans, and Torrance Transit. Bus routes serving the Project area are described below.

LA Metro Route 344 operates between the Harbor Gateway Transit Center and Rancho Palos Verdes, traveling through the City of Gardena along Artesia Boulevard in the Project vicinity. Route 344 operates on weekdays from approximately 5:00 a.m. to 9:30 p.m. with 30-minute headways. On weekends and holidays, Route 344 operates from approximately 6:00 a.m. to 9:30 p.m. with approximately 50- to 60-minute headways.[2]

Torrance Transit Line 13 operates between Redondo Beach and Artesia Stations, traveling along Artesia Boulevard in the Project vicinity. Line 2 operates on weekdays from approximately 5:10 a.m.

[2] LA Metro Line 344 https://www.metro.net/wp-content/uploads/2023/06/344_TT_06-25-23.pdf (Accessed September 2023)

to 10:00 p.m. with 45-minute headways. On weekends, Line 13 operates from approximately 5:13 a.m. to 10:00 p.m. with 55- to 60-minute headways.[3]

The nearest bus stops within 0.25 miles of the Project site are the LA Metro Route 344 and Torrance Transit Line 13, on the northeast and southwest corners of the intersection of Artesia Boulevard at Normandie Avenue, respectively.

3.10.2 Relevant Plans, Policies, and Ordinances

Federal

American Disabilities Act

The ADA of 1990 prohibits discrimination toward people with disabilities and guarantees that they have equal opportunities as the rest of society to become employed, purchase goods and services, and participate in government programs and services. The ADA includes requirements pertaining to transportation infrastructure. The Department of Justice's regulations for Titles II and III of the ADA, known as the 2010 ADA Standards for Accessible Designs, set minimum requirements for newly designed and constructed or altered state and local government facilities, public accommodations, and commercial facilities to be readily accessible to and usable by individuals with disabilities. These standards apply to accessible walking routes, curb ramps, and other facilities.

State

Senate Bill 743

On September 27, 2013, Governor Brown signed SB 743, which became effective on January 1, 2014. The purpose of SB 743 is to streamline the review under the CEQA process for several categories of development projects including the development of infill projects in transit priority areas and to balance the needs of congestion management with statewide goals related to infill development, promotion of public health through active transportation, and reduction of greenhouse gas emissions. SB 743 adds Chapter 2.7, Modernization of Transportation Analysis for Transit Oriented Infill Projects, to the CEQA Statute (California Public Resources Code Section 21099). Section 21099(d)(1) provides that aesthetic and parking impacts of a residential, mixed-use residential, or employment center project on an infill site within a transit priority area shall not be considered significant impacts on the environment. In addition, SB 743 mandates that alternative metric(s) for determining impacts relative to transportation shall be developed to replace the use of LOS in CEQA documents.

In the past, environmental review of transportation impacts focused on the delay that vehicles experience at intersections and on roadway segments, which is often measured using LOS. Mitigation for impacts on vehicular delay often involves increasing capacity such as widening a roadway or the size of an intersection, which in turn encourages more vehicular travel and greater pollutant emissions. Additionally, improvements to increase vehicular capacity can often discourage alternative forms of transportation such as biking and walking. SB 743 directed the OPR to develop

[3] Torrance Transit Line 13 Line 13 | City of Torrance (torranceca.gov) (Accessed September 2023)

an alternative metric(s) for analyzing transportation impacts in CEQA document. The alternative shall promote the state's goals of reducing greenhouse gas emissions and traffic-related air pollution, promoting the development of multimodal transportation system, and providing clean, efficient access to destinations. Under SB 743, it was anticipated that the focus of transportation analysis will shift from vehicle delay to VMT within transit-priority areas (i.e., areas well served by transit).

Pursuant to SB 743, OPR released the draft revised CEQA Guidelines in November 2017, recommending the use of VMT for analyzing transportation impacts. Additionally, OPR released Updates to Technical Advisory on Evaluating Transportation Impacts in CEQA, to provide guidance on VMT analysis. In this Technical Advisory, OPR provides its recommendations to assist lead agencies in screening out projects from VMT analysis and selecting a significance threshold that may be appropriate for their particular jurisdictions. While OPR's Technical Advisory is not binding on public agencies, CEQA allows lead agencies to "consider thresholds of significance … recommended by other public agencies, provided the decision to adopt those thresholds is supported by substantial evidence" (CEQA Guidelines Section 15064.7[c]).

In December 2018, the CEQA Guidelines were updated to add new Section 15064.3, Determining the Significance of Transportation Impacts, that describes specific considerations for evaluating a project's transportation impacts using the VMT methodology. This new methodology is required to be used for projects beginning on July 1, 2020.

CEQA Guidelines Section 15064.3(b) is divided into four subdivisions as follows:

(1) Land Use Projects. Vehicle miles traveled exceeding an applicable threshold of significance may indicate a significant impact. Generally, projects within one-half mile of either an existing major transit stop or a stop along an existing high quality transit corridor should be presumed to cause a less than significant transportation impact. Projects that decrease vehicle miles traveled in the project area compared to existing conditions should be presumed to have a less than significant transportation impact.

(2) Transportation Projects. Transportation projects that reduce, or have no impact on, vehicle miles traveled should be presumed to cause a less than significant transportation impact. For roadway capacity projects, agencies have discretion to determine the appropriate measure of transportation impact consistent with CEQA and other applicable requirements. To the extent that such impacts have already been adequately addressed at a programmatic level, such as in a regional transportation plan EIR, a lead agency may tier from that analysis as provided in Section 15152.

(3) Qualitative Analysis. If existing models or methods are not available to estimate the vehicle miles traveled for the particular project being considered, a lead agency may analyze the project's vehicle miles traveled qualitatively. Such a qualitative analysis would evaluate factors such as the availability of transit, proximity to other destinations, etc. For many projects, a qualitative analysis of construction traffic may be appropriate.

(4) Methodology. A lead agency has discretion to choose the most appropriate methodology to evaluate a project's vehicle miles traveled, including whether to express the change in absolute terms, per capita, per household or in any other measure. A lead agency may use models to estimate a project's vehicle miles traveled

> and may revise those estimates to reflect professional judgment based on substantial evidence. Any assumptions used to estimate vehicle miles traveled and any revisions to model outputs should be documented and explained in the environmental document prepared for the project.

The Project is a land use development; therefore, 15064.3(b)(1) would apply and transportation impacts have been assessed using the VMT metric.

Sustainable Communities Strategies: Senate Bill 375

The Sustainable Communities and Climate Protection Act of 2008 (Sustainable Communities Act, SB 375, Chapter 728, Statutes of 2008) supports the state's climate action goals to reduce greenhouse gas emissions through coordinated transportation and land use planning with the goal of more sustainable communities. Under the Sustainable Communities Act, the California Air Resources Board (CARB) sets regional targets for greenhouse gas emissions reductions from passenger vehicle use. In 2010, CARB established these targets for 2020 and 2035 for each region covered by one of the state's metropolitan planning organizations (MPOs). CARB will periodically review and update the targets, as needed.

Each of California's MPOs must prepare a Sustainable Communities Strategy (SCS) as an integral part of its Regional Transportation Plan (RTP). The SCS contains land use, housing, and transportation strategies that, if implemented, would allow the region to meet its greenhouse gas emission reduction targets. Once adopted by the MPO, the RTP/SCS guides the transportation policies and investments for the region. CARB must review the adopted SCS to confirm and accept the MPO's determination that the SCS, if implemented, would meet the regional greenhouse gas targets. If the combination of measures in the SCS would not meet the regional targets, the MPO must prepare a separate alternative planning strategy to meet the targets. The alternative planning strategy is not a part of the RTP.

The Sustainable Communities Act also establishes incentives to encourage local governments and developers to implement the SCS or the alternative planning strategy. Developers can get relief from certain CEQA requirements if their new residential and mixed-use Projects are consistent with a region's SCS (or alternative planning strategy) that meets the targets (see California Public Resources Code Sections 21155, 21155.1, 21155.2, 21159.28.).

Caltrans

Caltrans Transportation Impact Study Guide, May 20, 2020, has replaced the 2002 Guide for the Preparation of Traffic Impact Studies. Per the 2020 Transportation Impact Study Guide, Caltrans' primary review focus is VMT, replacing LOS as the metric used in CEQA transportation analyses (Caltrans 2020). Caltrans recommends use of OPR's recommended thresholds and guidance on methods of VMT assessment found in OPR's Technical Advisory (OPR 2018) for land use projects. In addition to VMT, the 2020 Transportation Impact Study Guide states that it may request a targeted operational and safety analysis to address a specific geometric or operational issue related to the state highway system and connections with the state highway system.

Regional

Southern California Association of Governments

SCAG develops the RTP, which presents the transportation vision for Los Angeles, Orange, San Bernardino, Imperial, Riverside, and Ventura Counties. SB 375 was enacted to reduce greenhouse gas emissions from automobiles and light trucks through integrated transportation, land use, housing and environmental planning. Under the law, SCAG is tasked with developing an SCS, an element of the RTP that provides a plan for meeting emissions reduction targets set forth by the California Air Resources Board.

The RTP/SCS identified priorities for transportation planning within the Southern California region, sets goals and policies, and identifies performance measures for transportation improvements to ensure that future Projects are consistent with other planning goals for the area (SCAG 2020). The Federal Transportation Improvement Plan (FTIP), also prepared by SCAG based on the RTP, lists all of multimodal transportation projects proposed over a 6-year period. To qualify for CEQA streamlining benefits under SB 375, a project must be consistent with the RTP/SCS. On September 3, 2020, SCAG's Regional Council adopted Connect SoCal (2020–2045 Regional Transportation Plan/Sustainable Communities Strategy), which replaced the RTP/SCS 2016.

Connect SoCal is a long-range visioning plan that builds upon and expands land use and transportation strategies established over several planning cycles to increase mobility options and achieve a more sustainable growth pattern. It charts a path toward a more mobile, sustainable and prosperous region by making connections between transportation networks, between planning strategies and between the people whose collaboration can improve the quality of life for Southern Californians (SCAG 2020). Although not yet adopted, a draft Connect SoCal 2024 is currently in process, which builds upon the existing adopted Connect SoCal (2020–2045) and outlines a vision for a resilient and equitable future, with policies and strategies for achieving the region's shared goals through 2050.

South Bay Bicycle Master Plan

The intent of the South Bay Bicycle Master Plan (Master Plan) is to guide the development and maintenance of a comprehensive bicycle network and set of programs and policies throughout the cities of El Segundo, Gardena, Hermosa Beach, Lawndale, Manhattan Beach, Redondo Beach, and Torrance for the next 20 years. The Master Plan has a unique focus on cross-city consistency and connectivity that is often lacking in singular city bike plans. Upon plan adoption, each participating city would be eligible for grant funding sources.

Figure 3.10-2 depicts Gardena's existing and proposed bike lanes per Master Plan Figure 4-3, Proposed Bicycle Facilities in Gardena. A Class III bicycle route exists along Normandie Avenue east of the Project site (i.e., between 170th Street and 182nd Street). This is the same facility identified by the City's Circulation Plan; see discussion above. There are no other bicycle facilities are proposed near the Project site.

Local

City of Gardena General Plan

The City of Gardena's General Plan's Community Development Element provides a Circulation Plan (Gardena General Plan 2006, Updated 2020). The following goals and policies related to circulation would apply to the Project:

CI Goal 1: Promote a safe and efficient circulation system that benefits residents and businesses and integrates with the greater Los Angeles/South Bay transportation system.

- Policy CI 1.1: Prioritize long-term sustainability for the City of Gardena, in alignment with regional and state goals, by promoting infill development, reduced reliance on single occupancy vehicle trips, and improved multi-modal transportation networks, with the goal of reducing air pollution and greenhouse gas emissions, thereby improving the health and quality of life for residents.

CI Goal 2: Promote a safe and efficient local street system that is attractive and meets the needs of the community.

CI Goal 3: Develop Complete Streets to promote alternative modes of transportation that are safe and efficient for commuters, and available to persons of all income levels and disabilities.

- Policy CI 3.1: Work with Gardena Municipal Bus Lines and MTA to increase the use of public transit, establish or modify routes, and improve connectivity to regional services.
- Policy CI 3.3: Maintain and expand sidewalk installation and repair programs, particularly in areas where sidewalks link residential neighborhoods to local schools, parks, and shopping areas.
- Policy CI 3.4: Maintain a citywide bicycle route and maintenance plan that promotes efficient and safe bikeways integrated with the MTA's regional bicycle system.

SB 743 Implementation Transportation Analysis Updates

In response to SB 743, and selection of VMT as the metric for transportation analysis, the City of Gardena adopted new transportation impact thresholds to adhere to CEQA requirements. Resolution No. 6471 was adopted by the City Council on July 14, 2020, which included the revised CEQA policies and procedures for transportation impacts related to VMT. Additionally, the City adopted SB 743 Implementation Transportation Analysis Updates (City of Gardena 2020) to provide guidance on conducting transportation studies in the City. The VMT and Local Transportation Assessment (LTA) studies prepared for the Project are included as Appendix J1 and J2, respectively.

3.10.3 Thresholds of Significance

The significance criteria used to evaluate the Project impacts related to transportation are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to transportation would occur if the Project would:

1. Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?
2. Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?
3. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?
4. Result in inadequate emergency access?

Based on the results of the Initial Study prepared for the Project (Appendix A), the Project would result in less-than-significant impacts associated with adequate emergency access. As such, the following thresholds are evaluated in this section of the Draft EIR:

TRA-1. Would the Project conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

TRA-2. Would the Project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

TRA-3. Would the Project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

The City has adopted its own VMT analysis guidelines and thresholds in its SB 743 Implementation Transportation Analysis Updates, June 2020. The City's VMT thresholds consider the VMT performance of residential, employment-based and regional-serving components of a project separately, using the efficiency metrics of home-based VMT per capita, work VMT per employee and total VMT per service-population, respectively. The City's VMT thresholds of significance that would apply to the Project are summarized below:

- A significant project impact would occur if the Project generates VMT[4] (per capita, per employee, or per service population) that exceeds 15% below the regional average (i.e., higher than regional VMT or 0%-14% below regional VMT)

  For regional retail projects, a significant impact would occur if the Project results in a net increase in total VMT.
- A significant cumulative impact will occur if the Project threshold is exceeded or if the Project is determined to be inconsistent with the SCAG SCS.

[4] City of Gardena June 2020. Table 6. VMT refers to daily Home-Based VMT per capita for residential projects, Home-Based Work VMT per employee for office, industrial, and hotel projects, and Total VMT per service population for all other project types.

3.10.4 Impact Analysis

Threshold TRA-1. Would the Project conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

Refer to Table 3.8-1 within Section 3.8 of this EIR, which evaluates the Project's consistency with the 2020–2045 RTP/SCS goals. The analysis finds that the Project is consistent with the goals of the RTP/SCS. Additionally, as shown in the analysis for Threshold TRA-2, the Project is located within a High-Quality Transit Area, which would support use of transit and other active transportation modes in improving mobility and accessibility for people. Refer to Table 3.8-2 within Section 3.8 of this EIR, which evaluates the Project's consistency with the Gardena General Plan. The analysis finds that the Project is consistent with the applicable goal and policies of the Community Development Element Circulation Plan. The Project would not conflict or impede implementation of any program, plan, ordinance or policy addressing the circulation system, including transit, bicycle and pedestrian facilities. Therefore, the impact would be **less than significant**.

Threshold TRA-2. Would the Project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

CEQA Guidelines Section 15064.3(b) focuses on newly adopted criteria (VMT) adopted pursuant to SB 743 for determining the significance of transportation impacts. As discussed above in Section 3.10.2, Relevant Plans, Policies, and Ordinances, pursuant to SB 743, the focus of transportation analysis changes from vehicle delay to VMT. The related updates to the CEQA Guidelines required under SB 743 were approved on December 28, 2018. As stated in CEQA Guidelines Section 15064.3(c), the provisions of Section 15064.3 applied statewide on July 1, 2020.

The following VMT analysis is prepared by Kimley Horn & Associates, dated December 2023 and is included as Appendix J1 of this EIR.

VMT Analysis Methodology

Based on the land use information provided, for the purposes of VMT analysis and the determination of transportation related significant impacts, the following land uses were analyzed:

- Industrial
- Office/retail
- Self-Storage
- Special Events Venue

The Project's VMT analysis was conducted in accordance with the City's adopted VMT standards and thresholds (VMT Guidelines). The steps in this VMT analysis were as follows:

- Conduct a screening analysis to identify proposed land uses that could be screened out of a detailed VMT analysis, either due to project type, being in a low VMT area or in a high-quality transit area.
- Determine VMT impacts of land uses that are not screened out through the screening criteria.

- Develop mitigation measures that could be implemented if a project would exceed the significance threshold for VMT impacts.

VMT Screening

The City VMT Guidelines provides details on appropriate screening thresholds that can be used to identify when a proposed land use project is anticipated to result in a less-than-significant impact without conducting a more detailed level VMT analysis. Screening thresholds are broken into the following three steps.

Project Type Screening

Projects that generate less than 110 daily trips, local-serving retail projects less than 50,000 square feet, and affordable housing projects may be screened from conducting a VMT analysis.

The AM and PM peak hour daily trips were estimated for the Project using the trip generation rates from the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition. The ITE Land Use Code, trip generation rates, and estimated trips that would be generated by the Project are presented in Table 3.10-1 for Opening Year (2025) Project Conditions when the site would be fully operational.

Table 3.10-1. Project Trip Generation

ITE Code	Land Use	Size	Units	Daily Trips	AM Peak			PM Peak		
					In	Out	Total	In	Out	Total
Trip Generation Rates										
110	General Light Industrial	—	KSF	4.870	0.651	0.089	0.74	0.091	0.559	0.65
151	Mini-Warehouse	—	Storage Units (100s)	17.960	0.617	0.593	1.21	0.840	0.840	1.68
710	General Office Building	—	KSF	10.840	1.338	0.182	1.52	0.245	1.195	1.44
Trip Generation Estimates										
110	General Light Industrial	72.00	KSF	351	47	6	53	7	40	47
151	Mini-Warehouse	14.80	Storage Units (100s)	266	9	9	18	12	12	24
710	General Office Building	10.00	KSF	108	13	2	15	2	12	14
			Total Proposed Project Trips	**725**	**69**	**17**	**86**	**21**	**64**	**85**
			Existing Land Use Trips	*147*	*3*	*0*	*3*	*9*	*8*	*17*
			Net Proposed Project Trips	**578**	**66**	**17**	**83**	**12**	**56**	**68**

* **Source**: Appendices J2 and J3.

Note: Appendix J2 includes trip generation as shown in the table. Appendix J3 includes trip generation for Warehousing use instead of General Light Industrial use for the industrial component of the proposed Project, which results in a lower trip generation. The operational analysis in Appendix J2 is based on the higher trip generation and is therefore considered conservative.

As shown in Table 3.10-1, the proposed Project is forecast to generate approximately 725 average daily trips, including 86 AM peak hour trips and 85 PM peak hour trips. When the trips generated by the existing land uses (to be removed) are subtracted from the proposed Project trip generation estimates, the Project would generate 578 net average daily trips, including 83 AM peak hour trips and 68 PM peak hour trips. Additionally, as shown in Appendix J3, using a warehouse trip rate for the proposed industrial uses, the proposed Project is forecast to generate approximately 497 average daily trips, including 45 AM peak hour trips and 51 PM peak hour trips, which results in 350 net average daily trips, including 42 AM peak hour trips and 34 PM peak hour trips.

The Project's industrial and self-storage land use components (as shown in Appendix J2 and J3) are estimated to generate more than 110 daily vehicle trips; thus, the industrial and self-storage uses are not screened out initially based on Project Type screening. The Project's office component is estimated to generate less than 110 daily vehicle trips; hence it will be screened out. Alternatively, this component could be developed as retail use. As mentioned above, local-serving retail use less than 50,000 square feet would screen out of conducting a detailed VMT analysis.

The Project's special event component is proposed on an approximately 36,000-square-foot portion of the Project site that would host several medium-sized events, which mainly falls withing the retail category of land uses such as farmer's market, food truck, food giveaways, and car shows. Therefore, the Project's special event component is screened out based on the local serving use screening under project type screening.

Transit Proximity Screening

As described in the City VMT Guidelines, projects located within a High-Quality Transit Area (HQTA) would be screened from a detailed VMT analysis if the Project does not have certain characteristics. This screening criteria cannot be applied if the Project:

- Has a Floor Area Ratio (FAR) of less than 0.75 (for office and industrial projects)
- Includes more parking for use by residents, customers, or employees than required by the City (unless additional parking is being provided for design feasibility, such as completing the floor of a subterranean or structured parking facility, or if additional parking is located within the project site to serve adjacent uses).
- Is inconsistent with the applicable Sustainable Communities Strategy (as determined by the City).
- Replaces affordable residential units with a smaller number of moderate- or high-income residential units.

Figure 3.10-3 illustrates the High-Quality Transit Areas per the City's VMT Guidelines. The Project site is located in a frequent transit area (within a 0.5-mile radius of an existing or planned major transit stop, or an existing stop along a high-quality transit corridor, which has fixed route bus service with

service intervals no longer than 15 minutes during peak commute hours). In addition, this Project would meet the other criteria necessary to screen out due to transit proximity.

- Industrial uses will have FARs of at least 0.75.
- The City has indicated that supplying parking in excess of minimum requirements would be prohibited.
- The Project is consistent with the SCAG RTP/SCS because it does not conflict with any of the goals and policies of Connect SoCal, as described under Threshold LU-1 and in Table 3.8-1 in Section 3.8.
- Project would not replace residential units.

Based on the City's Guidelines, the Transit Proximity Screening is applicable to office, retail, hotel, industrial and residential projects. The guidelines do not specifically address the screening criteria for self-storage land uses. Additionally, the primary mode of transportation for self-storage units is expected to be automobiles, thus the proximity to transit is not applicable to this land use. Therefore, only the Project's industrial use can be screened out under the transit proximity screening criteria.

Low VMT Area Screening

Projects that are assessed using home-based work VMT per employee (such as industrial) in a low-VMT generating area may be screened from a VMT analysis. According to Figure 1 in the City VMT Guidelines, the Project site would not screen out under the low VMT area screening criteria.

Screening Analysis Results

Based on the VMT screening, the Project's special events components would screen out of a VMT analysis based on project type screening criteria and would result in a less-than-significant VMT impact. The industrial use of the Project would screen out of a VMT analysis based on transit proximity screening criteria and would result in a less-than-significant VMT impact. The office component would screen out as it is projected to generate less than 110 daily trips and if it is retail instead of office it will screen out as being locally serving and less than 50,000 square feet. The self-storage components of the Project would not screen out initially based on the three screening criteria and would require a VMT analysis. Therefore, a VMT impact analysis was conducted for the self-storage use.

VMT Impact Analysis

The primary source of VMT for self-storage units is customers; therefore, the travel characteristics of self-storage units are similar to that of local-serving retail uses. Since the total gross area of the proposed self-storage is more than 50,000 square feet and cannot be screened out of VMT analysis, a separate VMT analysis was conducted considering the net change in VMT as a threshold. According to the City's guidelines, the following VMT impact thresholds are applicable to self-storage uses:

- **Project Threshold:** For regional retail, a significant impact would occur if the project results in a net increase in total VMT.
- **Cumulative Threshold:** A significant impact will occur if the project threshold is exceeded or if the project is determined to be inconsistent with the SCAG SCS.

Self-Storage use VMT Impact Analysis

Similar to retail stores, typical self-storage units such as the Project most often serve pre-existing needs (i.e., the self-storage does not generate new trips because it meets existing demand) because their customers are using the facility not because of the features offered by the self-storage, but because of the area the self-storage is located in. Usually, self-storage offers similar features and pricing in the same area. Thus, it is assumed that someone will travel to a newly constructed typical self-storage because of its proximity to the area attraction, rather than the proposed self-storage fulfilling an unmet need. Typical self-storage most often can be presumed to reduce trip lengths when a new self-storage is introduced within a cluster of existing self-storages located near a local neighborhood. Thus, the impact to the transportation system would be negligible or reduced by the introduction of a new self-storage use to an area where people are already traveling and planning on storing goods. Self-storage units do not attract any new trips other than need of storage, which is fulfilled by local storage units.

While a specific market study for the proposed self-storage use was not conducted as part of the traffic analysis, a map showing the proximity of other similar self-storage facilities is provided as Exhibit 2 of Appendix J1. A 0.5-mile buffer was placed around the eight existing self-storage facilities in the area and the Project to illustrate the lack of overlapping service area between the Project and the existing self-storage uses. As shown in Exhibit 2 of Appendix J1, the Project would reduce trip lengths by adding self-storage opportunities into the local area, reducing proximity to self-storage services for users. Therefore, in accordance with the City's VMT guidelines, it is assumed that the Project will result in a VMT reduction and support the goals of SB 743.

Impact Determination

Based on the results of this analysis, the following conclusions are made:

- The proposed industrial land use would screen out of a VMT analysis based on the City's transit proximity screening criteria and would result in a **less-than-significant VMT impact**.
- The proposed office/retail land use would screen out of a VMT analysis based on daily trip generation or local-serving retail use and would result in a **less-than-significant VMT impact**.
- The proposed special event land uses are customer-based land uses that can be categorized as local-serving retail uses. Therefore, the special event land uses can be screened out based on the City's project type screening as well as transit proximity screening criteria and would result in a **less-than-significant VMT impact**.
- The proposed self-storage use is customer-based land use that would result in net decrease in regional VMT. Therefore, the self-storage use would result in a **less-than-significant VMT impact.**

Threshold TRA-3. Would the Project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

The south leg of the unsignalized intersection of Gateway Plaza and Artesia Boulevard would provide access to the Project. A Traffic Signal Warrant Analysis was conducted in the Project's traffic analysis by Kimley-Horn and Associates (Draft 2022) for the unsignalized intersection of Gateway Plaza and Artesia Boulevard. The intersection was found to warrant a traffic signal control under Existing

conditions without the Project. The Project would not significantly increase traffic volumes at this intersection; therefore, per City's recommendation, a traffic signal was not recommended. Vehicular access to the Project site would be via right-in-right-out only driveway along Artesia Boulevard. This intersection would continue to be unsignalized and the Project site driveway would be a right-in-right-out driveway.

Passenger vehicles would be able to make U-turns at Normandie Avenue and Western Avenue where this movement is allowed, the trucks accessing the site would use a reasonable path along the grid roadway network near the Project such that no U-turns would be required. The Project would involve construction of a new buildings (by removing all of the existing uses such as U haul) and use the internal roadways for access to individual building and on-site circulation. Local vehicular access to the Project site would be provided via one 35-foot driveway from Artesia Boulevard. A separate 35-foot exit driveway travel lane will be adjacent to the entrance divided by a 20-foot landscape divide. The Project driveway will only service the Project.

During construction, no lane closures, sidewalk closures, or changes in vehicular and pedestrian circulation are anticipated. Therefore, the Project would not increase hazards due to a geometric design feature or incompatible use and impact would be **less than significant**.

3.10.5 Mitigation Measures

Impacts would be less than significant. As such, no mitigation is required.

3.10.6 Level of Significance After Mitigation

Impacts would be less than significant. As such, no mitigation is required.

3.10.7 Cumulative Effects

Per City's guidelines, a less-than-significant impact under Existing/Baseline conditions would also result in a less-than-significant cumulative impact as long as the Project is also consistent with the SCAG RTP/SCS. As mentioned above, the Project is considered to be consistent with SCAG RTP/SCS since the proposed number jobs are less than the total future jobs assumed for the Project zone. Additionally, the Project's consistency with 2020 Connect SoCal RTP/SCS has been included in Section 3.8. Therefore, the Project would not result in any cumulative effects.

3.10.8 References

Caltrans (California Department of Transportation). 2020. Transportation Impact Study Guide. Vehicles Miles Traveled-Focused Draft. May 2020.

City of Gardena. 2020. SB 743 Implementation Transportation Analysis Updates, June 2020

OPR (Governor's Office of Planning and Research). 2018. Technical Advisory on Evaluating Transportation Impacts in CEQA. Accessed October 2023. http://opr.ca.gov/docs/20190122-743_Technical_Advisory.pdf.

SCAG (Southern California Association of Governments). 2020. The 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments (Connect SoCal). Accessed May 4, 2022. https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocal-plan_0.pdf?1606001176.

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SOURCE: Gardena General Plan 2006, Circulation Plan Updated 2020

FIGURE 3.10-1

Roadway Network

1450 Artesia Specific Plan Draft EIR

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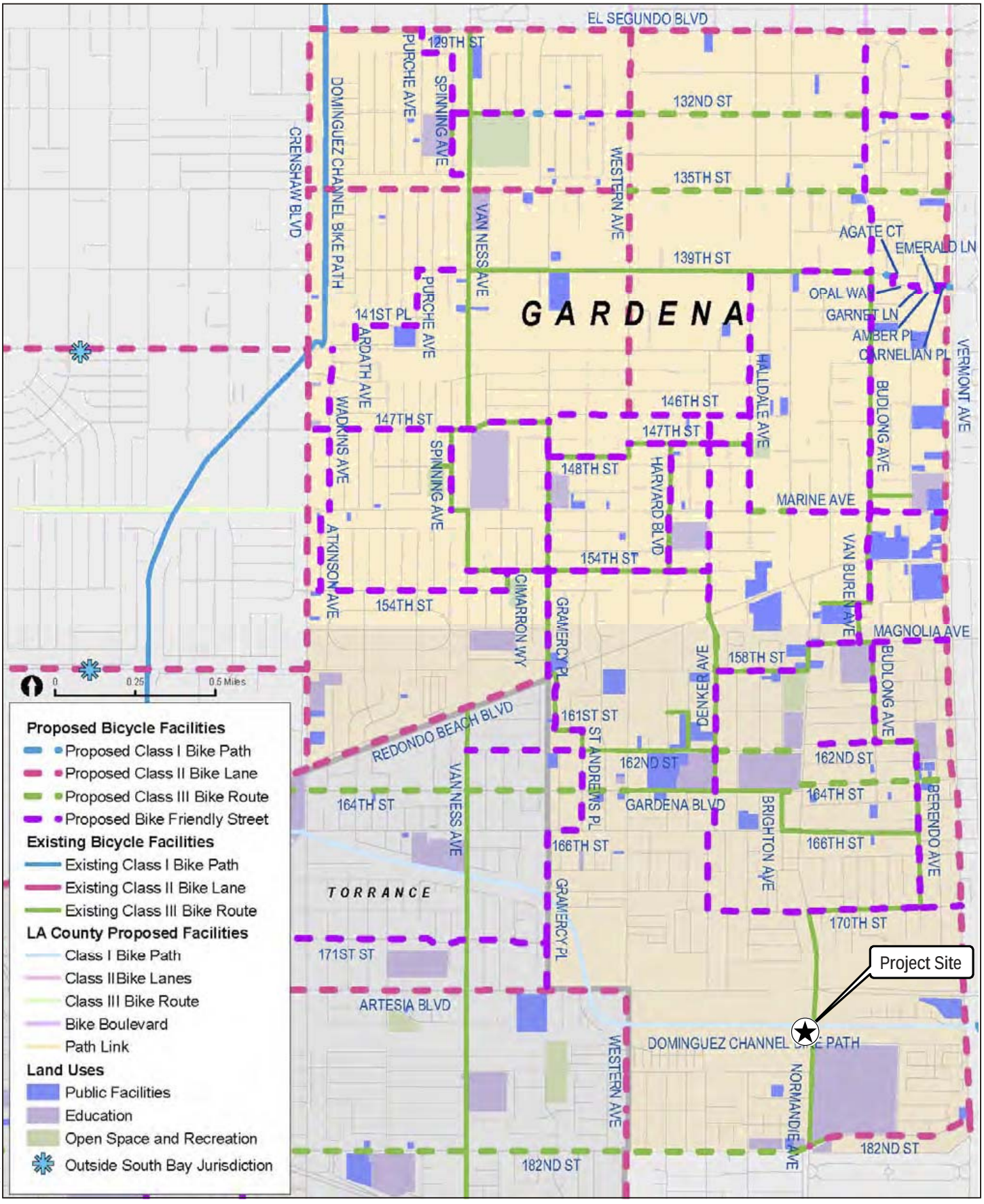

SOURCE: South Bay Bicycle Master Plan - Draft

FIGURE 3.10-2

Bike Facilities

1450 Artesia Specific Plan Draft EIR

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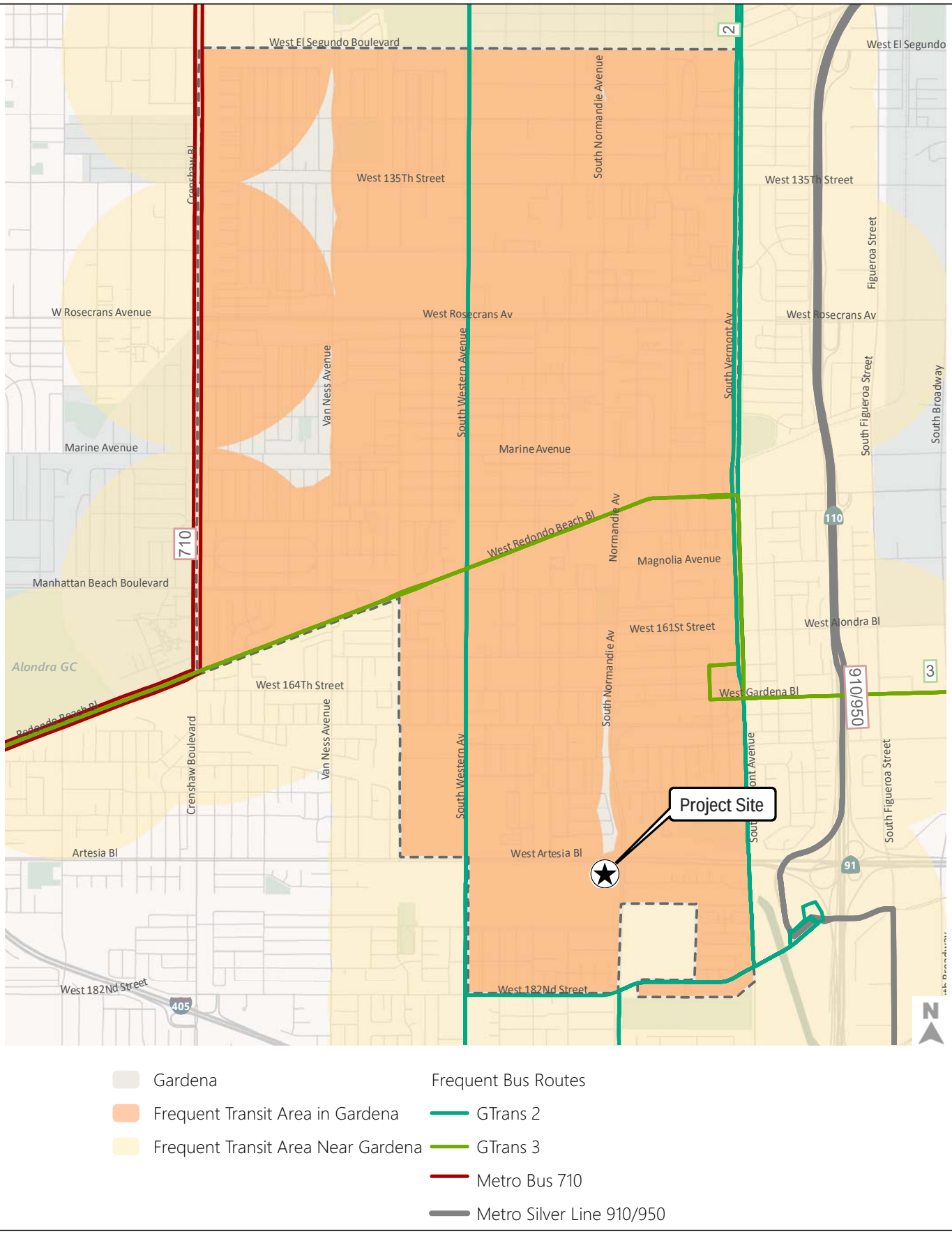

FIGURE 3.10-3

High-Quality Transit Areas

1450 Artesia Specific Plan Draft EIR

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3.11 Tribal Cultural Resources

This section describes the existing Tribal Cultural Resource (TCR) conditions of the 1450 Artesia Specific Plan Project (Project or proposed Project) site, identifies associated regulatory requirements, evaluates potential impacts, and identifies mitigation measures related to implementation of the Project.

The following analysis is based, in part, on the following source:

- Cultural Resources Assessment Report for the 1450 Artesia Specific Plan Project, prepared by BCR Consulting LLC in September 2023 (Appendix C)

In addition to the source above, the evaluation of potential impacts to TCRs is based on the findings resulting from tribal consultation conducted by the City of Gardena (City), as the lead agency.

3.11.1 Existing Conditions

Background research conducted to inform these analyses include the results of the California Historical Resources Information System (CHRIS) and Native American Heritage Commission (NAHC) Sacred Lands File (SLF) records searches, other background research, and the results of formal tribal consultation completed by the lead agency, the City, pursuant to California Assembly Bill (AB) 52 and Senate Bill (SB) 18, all of which are briefly provided in this section. For a discussion of the prehistoric setting and ethnohistoric background please see Appendix C of this EIR.

3.11.1.1 Background Research

CHRIS Records Search

As previously discussed in Section 3.2, Cultural Resources, of this Draft EIR, the CHRIS records search results revealed that 12 previous cultural resources studies have been conducted within the records search area. None of the previous studies have addressed the Project site. Additionally, the CHRIS records search results revealed that four cultural resources have been previously recorded within 0.5 miles of the Project site of which one is a prehistoric site and three are historic built environment resources. However, no prehistoric sites or resources documented to or potentially be of Native American origin have been previously recorded within or adjacent to the Project site. A complete records search bibliography is provided in Appendix A of Appendix C of this EIR.

Native American Coordination

Sacred Lands File Search

A search of the NAHC's SLF database was completed on May 18, 2022 with negative results (see Appendix C of Appendix C). It should be noted that SLF maintained by the NAHC represents a curation of "sacred lands" or TCRs provided by tribal entities and Native American representatives. For various reasons, tribal entities and Native American representatives do no not always report sacred lands or TCRs to the NAHC. As such, the NAHC's SLF is not a comprehensive list, and searches of

the SLF must be considered in concert with other research and not used as a sole source of information regarding the presence of TCRs or cultural resources.

3.11.1.2 Survey Methods and Results

An intensive-level cultural resources field survey of the Project site was conducted on June 21, September 9, and September 19, 2022. Only 3.5 acres (53.8% of the Project site) was accessible during the survey. The eastern portion of the Project site once served as a petroleum dump site making the area inaccessible. No prehistoric archaeological resources were identified within accessible portions of the Project as a result of the surveys performed.

AB 52 and SB 18 Consultation

The Project is subject to compliance with AB 52 (PRC 21074) and SB 18 (Government Code Section 65352), which requires consideration of impacts to TCRs and requires local governments to invite California Native American tribal representatives to participate in consultation about proposed General Plan and Specific Plan adoptions or amendments, respectively, as part of the CEQA process, and that the lead agency notify California Native American tribal representatives that have requested notification who are traditionally or culturally affiliated with the geographic area of the Project site. All NAHC-listed California Native American tribal representatives that have requested Project notification pursuant to AB 52, and all California Native American tribal representatives who were identified by the NAHC as being traditionally or culturally affiliated with the geographic area of the Project pursuant to SB 18, were sent letters by the City on June 3, 2022 via USPS certified mailing and email. The notification letters contained a Project description, outline of AB 52 and SB 18 timing, an invitation to consult, a Project location map, and contact information for the appropriate lead agency representative. To date, government-to-government consultation initiated by the City has not resulted in the identification, through the presentation of substantial evidence, of a TCR within or near the Project site. Table 3.11-1 summarizes the results of the AB 52 and SB 18 process for the proposed Project. The confidential AB 52 and SB 18 record of all communication between the City and involved tribes is on file with the City and available for review by eligible individuals.

Table 3.11-1. Assembly Bill 52 and Senate Bill 18 Tribal Outreach Results with Native American Heritage Commission-Listed Native American Contacts

Native American Tribal Representatives	Response Received
Andrew Salas, Chairman Gabrieleno Band of Mission Indians – Kizh Nation	June 7, 2022 Chairman Salas responded via email with an attached letter acknowledging receipt of the notification letters and requested to consult on the Project if ground disturbance is involved. July 28, 2022 Consultation is conducted between the City and tribal representatives, Chairman Salas and Matt Teutimex, via phone call. The tribe provided the City with documents and information regarding the potential for the discovery of TCRs. Following

Table 3.11-1. Assembly Bill 52 and Senate Bill 18 Tribal Outreach Results with Native American Heritage Commission–Listed Native American Contacts

Native American Tribal Representatives	Response Received
	the consultation meeting, the City provided the tribe with recommended and potential mitigation measures via email. July 29, 2022 Chairman Salas responded via email and provided the tribe's recommended mitigation measures. August 3, 2022 The City emailed Chairman Salas revised mitigation measures. August 11, 2022 The City sent a follow-up email to Chairman Salas and Mr. Teutimex regarding the revised mitigation measures sent to the tribe on August 3, 2023. August 19, 2022 Chairman Salas responded via email with an attached letter dated August 18, 2022, and provided additional documents, information, and mitigation measures for the potential discovery of TCRs. The City responded the same day acknowledging receipt of all files and relayed that the City is reviewing proposed mitigation measures provided by the tribe. April 18, 2023 The City emailed Chairman Salas with the final mitigation measures that the City has agreed upon. April 18, 2023 The City responded to the tribe via email. The City's response includes a summary of the City's determination on whether the Project would cause a substantial adverse change in the significance of a TCR. After review and consideration of the information provided by the tribe, the City determined that although no substantial evidence of a TCR pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, exists within the Project site, the City agreed to incorporate

Table 3.11-1. Assembly Bill 52 and Senate Bill 18 Tribal Outreach Results with Native American Heritage Commission–Listed Native American Contacts

Native American Tribal Representatives	Response Received
	mitigation measures for the Project in accordance with Public Resources Code Section 21080.3.2(c)(2) and considered consultation concluded. No additional responses have been received since the last record of communication documented.
Sam Dunlap Gabrieleno-Tongva Tribe	No response received as a result of the City's AB 52 and SB 18 notification letters.
Anthony Morales, Chairperson Gabrieleno/Tongva San Gabriel Band of Mission Indians	No response received as a result of the City's SB 18 notification letter.
Sandonne Goad, Chairperson Gabrielino/Tongva Nation	No response received as a result of the City's SB 18 notification letter.
Christina Conley, Tribal Consultant and Administrator Gabrielino Tongva Indians of California Tribal Council	No response received as a result of the City's SB 18 notification letter.
Robert Dorame, Chairperson Gabrielino Tongva Indians of California Tribal Council	No response received as a result of the City's SB 18 notification letter.
Charles Alvarez Gabrielino-Tongva Tribe	No response received as a result of the City's SB 18 notification letter.
Lovina Redner, Tribal Chair Santa Rose Band of Cahuilla Indians	No response received as a result of the City's SB 18 notification letter.
Isaiah Vivanco, Chairperson Soboba Band of Luiseno Indians	No response received as a result of the City's SB 18 notification letter.
Joseph Ontiveros, Cultural Resource Department Soboba Band of Luiseno Indians	No response received as a result of the City's SB 18 notification letter.

3.11.2 Relevant Plans, Policies, and Ordinances

State

California State Assembly Bill 52

AB 52 of 2014 amended Public Resources Code Section 5097.94 and added Public Resources Code Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3. AB 52

established that TCRs must be considered under CEQA and also provided for additional Native American consultation requirements for the lead agency. Public Resources Code Section 21074 describes a TCR as a site, feature, place, cultural landscape, sacred place, or object that is considered of cultural value to a California Native American tribe. A TCR is either:

- On the CRHR or a local historic register;
- Eligible for the CRHR or a local historic register; or
- A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in division (c) of Public Resources Code Section 5024.1.

AB 52 formalizes the lead agency–tribal consultation process, requiring the lead agency to initiate consultation with California Native American groups that are traditionally and culturally affiliated with the Project area, including tribes that may not be federally recognized. Lead agencies are required to begin consultation prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report by contacting those tribal groups who have previously provided formal written request for notification of projects under the agency's jurisdiction.

Section 1 (a)(9) of AB 52 establishes that "a substantial adverse change to a tribal cultural resource has a significant effect on the environment." Effects on TCRs should be considered under CEQA. Section 6 of AB 52 adds Section 21080.3.2 to the Public Resources Code, which states that parties may propose mitigation measures "capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to a tribal cultural resource." Further, if a California Native American tribe requests consultation regarding Project alternatives, mitigation measures, or significant effects to TCRs, the consultation shall include those topics (Public Resources Code Section 21080.3.2[a]). Finally, the environmental document, for which the tribal consultation is focused, and the mitigation monitoring and reporting program (where applicable), developed in consideration of information provided by tribes during the formal consultation process, shall include any mitigation measures that are adopted (Public Resources Code Section 21082.3[a]).

Senate Bill 18

The Local and Tribal Intergovernmental Consultation process, commonly known as Senate Bill (SB) 18 was signed into law September of 2004 and took effect March 1, 2005. SB 18 refers to PRC Section 5097.9 and 5097.995, which defines cultural places as:

- Native American sanctified cemetery place of worship, religious or ceremonial site, or sacred shrine (PRC Section 5097.9).
- Native American historic, cultural, or sacred site that is listed or may be eligible for listing in the California Register of Historic Resources pursuant to Section 5024.1, including any historic or prehistoric ruins, any burial ground, any archaeological or historic site (PRC Section 5097.993).

SB 18 established responsibilities for local governments to contact, provide notice to, refer plans to, and consult with California Native American tribes that have been identified by the NAHC and if that

tribe requests consultation after local government outreach as stipulated in Government Code Section 65352.3. The purpose of this consultation process is to protect the identity of the cultural place and to develop appropriate and dignified treatment of the cultural place in any subsequent project. The consultation is required whenever a general plan, specific plan, or open space designation is proposed for adoption or to be amended. Once local governments have sent notification, tribes are responsible for requesting consultation. Pursuant to Government Code Section 65352.3(a)(2), each tribe has 90 days from the date on which they receive notification to respond and request consultation.

In addition to the requirements stipulated previously, SB 18 amended Government Code Section 65560 to "allow the protection of cultural places in open space element of the general plan" and amended Civil Code Section 815.3 to add "California Native American tribes to the list of entities that can acquire and hold conservation easements for the purpose of protecting their cultural places."

California Health and Safety Code Section 7050.5

California law protects human remains, Native American burials, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. California Health and Safety Code Section 7050.5 requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains shall occur until the County Coroner has examined the remains and determined that the remains are not subject to the provisions of Section 27491 of the Government Code or any other related provisions of law concerning investigation of the circumstances, manner and cause of any death, and the recommendations concerning the treatment and disposition of the human remains have been made to the person responsible for the excavation, or to his or her authorized representative, in the manner provided in Section 5097.98 of the PRC (PRC Section 7050.5[b]). If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the NAHC within 24 hours (PRC Section 7050.5[c]). The NAHC will notify the "most likely descendant" (MLD). With the permission of the landowner, the MLD may inspect the site of discovery. The inspection must be completed within 48 hours of notification of the MLD by NAHC. The MLD may recommend means of treating or disposing of, with appropriate dignity, the human remains and items associated with Native Americans.

Local

City of Gardena Municipal Code

Section 18.42.210.of the Gardena Municipal Code contains the following language regarding Native American or TCRs (adopted February 2023).

D. Cultural Resources

1. If Native American or TCRs are found on the site, the applicant shall enter into a cultural resources treatment agreement with a local Native American tribe traditionally and culturally affiliated with Gardena that is acknowledged by the Native American Heritage Commission, which shall address the following:

a. Treatment and disposition of TCRs in consultation with the City and a qualified archaeologist;
b. Designation, responsibilities, and participation of professional tribal monitors during initial ground disturbance, including grading, excavation and [other] ground disturbing activities;
c. Project grading and development scheduling;
d. Terms of compensation for the tribal monitors;
e. Treatment and final disposition of any cultural resources and sacred sites discovered on site;
f. Tribal monitor's authority to stop and redirect grading in order to evaluate the significance of any potential TCRs discovered on the property, and to make recommendations as to treatment; and
g. The applicant's agreement to relinquish ownership of all TCRs, including all archaeological artifacts that are found on the project area, to the tribe for proper treatment and disposition; and the applicant's agreement that all tribal sacred sites are to be avoided and preserved.

2. Human Remains
   a. In compliance with state law, if human remains are unearthed, the project developer, pursuant to state health and safety code section 7050.5, will contact the county coroner and ensure no further disturbance occurs until the county coroner has made the necessary findings as to origin and disposition pursuant to public resources code section 5097.98.
   b. If the remains are determined to be of Native American descent, the Native American Heritage Commission (NAHC) must be notified within 24 hours.

3.11.3 Thresholds of Significance

The significance criteria used to evaluate the Project impacts related to TCRs are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to TCRs would occur if the Project would: cause a substantial adverse change in the significance of a TCR, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

1. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or
2. A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

Based on the results of the Initial Study prepared for the Project (Appendix A), the following thresholds are evaluated in this section of the Draft EIR:

TCR-1. Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the

landscape, sacred place, or object with cultural value to a California Native American tribe, and that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

TCR-2. Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

3.11.4 Impact Analysis

Threshold TCR-1. Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?

As previously discussed in Section 3.2(b), no known archaeological resources of Native American origin or TCRs listed or eligible for listing in the CRHR or a local register were identified within the Project site as a result of the SCCIC CHRIS or NAHC SLF records search, the pedestrian survey, nor as a result of information provided by consulting tribes. Therefore, the Project would not adversely affect TCRs that are listed or eligible for listing in the state or local register. Impacts would be **less than significant**.

Threshold TCR-2. Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

The Project is subject to compliance with AB 52 (PRC 21074), which requires consideration of impacts to TCRs as part of the CEQA process and requires lead agencies to provide notification of proposed projects to California Native American tribal representatives that have requested such notifications. As a result of the City's AB 52 notification efforts, one tribal organization responded

requesting to engage in formal consultation on the Project: the Gabrieleño Band of Mission Indians–Kizh Nation.

Following a consultation call between the City and the Gabrieleño Band of Mission Indians–Kizh Nation on July 28, 2022, the tribe provided follow-up e-mails on July 28, 2022, July 29, 2022, and August 19, 2022, that included a number of attached documents including proposed mitigation measures and information presented in support of the tribe's statements provided to the City. At the request of the tribe, specific information related to TCRs will be maintained as confidential and is on file with the City.

TCRs constitute a separate resource category under CEQA. Tribes, through the government-to-government consultation process, are provided the opportunity to identify TCRs that may be affected by a project and to interpret the significance of such resources. Having reviewed and considered all information provided through this process, the ultimate responsibility to determine the appropriate management approach is the lead agency for compliance with CEQA.

No information provided regarding the presence of a specific known TCR met the definition of substantial evidence in accordance with CEQA. Additionally, no archaeological resources of a Native American origin were identified as a result of the CHRIS or NAHC SLF records searches, and pedestrian survey and the City determined that no substantial evidence has been presented that would demonstrate a significant known TCR (pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1) exists within the Project site. However, the City, in an abundance of caution, has decided that additional management strategies will be implemented. Although the City has established an ordinance (Section 18.42.210 of the Gardena Municipal Code) to address the inadvertent discovery of TCRs, as outlined in Section 3.11.2, the Project Applicant has agreed to comply with the mitigation measures requested by the Tribe as set forth in the mitigation measures below. As such, in addition to the implementation of previously identified Mitigation Measure (MM) CUL-1, MM-CUL-2, and MM-CUL-3, the City has accepted the mitigation measures developed between the City and the tribe. These mitigation measures are outlined in **MM-TCR-1** through **MM-TCR-4**. With implementation of **MM-CUL-1**, **MM-CUL-2**, **MM CUL-3**, **MM-TCR-1**, **MM-TCR-2**, **MM-TCR-3,** and **MM-TCR-4**, significant impacts to potential TCRs would be reduced to **less than significant with mitigation incorporated**.

3.11.5 Mitigation Measures

MM-TCR-1 Native American Monitoring.

A. Prior to commencement of ground-disturbing activities, the Project Applicant/lead agency shall retain a Native American Monitor from or approved by the Gabrieleño Band of Mission Indians – Kizh Nation. The monitor shall be retained prior to the commencement of any "ground-disturbing activity" for the subject Project at all Project locations (i.e., both on-site and any off-site locations that are included in the Project Description/definition and/or required in connection with the Project, such as public improvement work). "Ground-disturbing activity" shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching.

B. A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity or the issuance of any permit necessary to commence a ground-disturbing activity.

C. The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities performed, locations of ground disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the tribe. Monitoring logs will identify and describe any discovered Tribal Cultural Resources (TCRs), including, but not limited to, Native American cultural and historical artifacts, remains, and places of significance, as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitoring logs will be provided to the Project Applicant/lead agency upon written request to the tribe.

D. On-site tribal monitoring shall conclude upon the latter of the following: (1) written confirmation to the monitor from a designated point of contact for the Project Applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the Project site or in connection with the Project are complete; or (2) a determination and written notification by the monitor to the Project Applicant/lead agency that no future planned construction activity and/or development/construction phase at the Project site possesses the potential to impact TCRs.

MM-TCR-2 Unanticipated Discovery of Tribal Cultural Resource Objects (Non-Funerary/ Non-Ceremonial).

Management strategies stipulated in MM-CUL-1 through MM-CUL-3 shall be implemented in the event that Project activities encounter cultural resources. In addition, the following TCR-specific measures shall be implemented. Upon discovery of any TCRs or archaeological resources, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the monitor and an archaeologist meeting the Secretary of the Interior's Professional Qualification Standards for archaeology (National Park Service 1983).

A. If the resources are Native American in origin, the Kizh will recover and retain all discovered TCRs in the form and/or manner the tribe deems appropriate, in the tribe's sole discretion, and for any purpose the tribe deems appropriate, including for educational, cultural and/or historic purposes.

B. If the archaeologist determines that the resource meets the criteria as a "historical resource" or "unique archaeological resource" under CEQA, time allotment and funding sufficient to allow for the implementation of avoidance measures or appropriate mitigation shall be made available. The treatment plan shall be in accordance with CEQA Guidelines § 15064.5(f) for historical resources and Public Resources Code § 21083.2(b) for unique archaeological resources. If not left in place, any historic or archaeological material that is not Native American in origin shall be curated at a public, nonprofit institution with

a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum at the University of California Los Angeles, if such an institution agrees to accept the material. If no institution accepts the archaeological material, they shall be offered to a local school or historical society for educational purposes.

MM-TCR-3 Unanticipated Discovery of Human Remains and Associated Funerary Objects.

A. Native American human remains are defined in California Public Resources Code (PRC) Section 5097.98(d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in PRC Section 5097.98, are also to be treated according to this statute.
B. If human remains and/or grave goods are discovered or recognized on the Project site, then all construction activities shall immediately cease within 200 feet of the discovery and PRC Section 5097.9 and California Health and Safety Code Section 7050.5 shall be followed. This includes among other required measures, the immediate contact of the County Coroner, the principal archaeologist retained for the Project and if the remains are potentially Native American in origin, the Gabrieleno Band of Mission Indians-Kizh Nation.
C. Human remains and grave/burial goods found with such remains shall be treated alike per PRC Sections 5097.98(d)(1) and (2).
D. Construction activities may resume in other parts of the Project site at a minimum of 200 feet away from discovered human remains and/or burial goods. This determination will be made by the construction monitor in consultation with the principal archaeologist and if the remains are potentially Native American in origin, the Gabrieleno Band of Mission Indians-Kizh Nation. No further constriction shall occur until the construction monitor and/or principal archaeologist has given expressed consent of that determination (along with any other mitigation measures the monitor and/or archaeologist deems necessary). (CEQA Guidelines Section 15064.5[f]).
E. Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.

MM-TCR-4 Unanticipated Discovery of Human Remains and Associated Funerary Objects. This mitigation measure shall only apply if the Gabrieleno Band of Mission Indians-Kizh Nation is designated as the Most Likely Descendant ("MLD") by the NAHC.

A. The Koo-nas-gna Burial Policy shall be implemented. To the tribe, the term "human remains" encompasses more than human bones. In ancient as well as historic times, tribal traditions included, but were not limited to, the preparation of the soil for burial, the burial of funerary objects with the deceased, and the ceremonial burning of human remains.
B. If the discovery of human remains includes four or more burials, the discovery location shall be treated as a cemetery and a separate treatment plan shall be created.

C. The prepared soil and cremation soils are to be treated in the same manner as bone fragments that remain intact. Associated funerary objects are objects that, as part of the death rite or ceremony of a culture, are reasonably believed to have been placed with individual human remains either at the time of death or later; other items made exclusively for burial purposes or to contain human remains can also be considered as associated funerary objects. Cremations will either be removed in bulk or by means as necessary to ensure complete recovery of all sacred materials.

D. In the case where discovered human remains cannot be fully documented and recovered on the same day, the remains will be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours. The tribe will make every effort to recommend diverting the Project and keeping the remains in situ and protected. If the Project cannot be diverted, it may be determined that burials will be removed.

E. In the event preservation in place is not possible despite good faith efforts by the Project Applicant/developer and/or landowner, before ground-disturbing activities may resume on the Project site, the landowner shall arrange a designated site location within the footprint of the Project for the respectful reburial of the human remains and/or ceremonial objects.

F. Each occurrence of human remains and associated funerary objects will be stored using opaque cloth bags. All human remains, funerary objects, sacred objects and objects of cultural patrimony will be removed to a secure container on site if possible. These items should be retained and reburied within 6 months of recovery. The site of reburial/repatriation shall be on the Project site but at a location agreed upon between the tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered

G. The tribe will work closely with the Project's qualified archaeologist to ensure that the excavation is treated carefully, ethically and respectfully. If data recovery is approved by the tribe, documentation shall be prepared and shall include (at a minimum) detailed descriptive notes and sketches. All data recovery data recovery related forms of documentation shall be approved in advance by the tribe. If any data recovery is performed, once complete, a final report shall be submitted to the tribe and the NAHC. The tribe does NOT authorize any scientific study or the utilization of any invasive and/or destructive diagnostics on human remains.

3.11.6 Level of Significance After Mitigation

Threshold TCR-1. With implementation of MM-CUL-1, MM-CUL-2, MM CUL-3, MM-TCR-1, MM-TCR-2, MM-TCR-3, and MM-TCR-4, the Project's potential impacts to TCRs would be reduced to **less than significant**.

3.11.7 Cumulative Effects

Potential cumulative impacts on TCRs consider whether impacts of the proposed Project together with related projects identified within the vicinity of the Project area, when taken as a whole, substantially diminish the number of TCRs, within the same or similar context or property type. The development of related projects have the potential to cumulatively affect known and unknown TCRs. These resources are unique and nonrenewable resources, and are vulnerable to destruction by demolition or alteration, earthmoving equipment, looting by the public, and natural causes such as weathering and erosion. Projects that demolish or alter certain TCRs have the potential to erode a general cultural landscape to which the resources belong. Cumulative projects would be required to assess impacts to TCRs. However, impacts to TCRs, if any exist, tend to be site-specific and are reliant, in part, on the information provided through the government-to-government consultation process completed between the CEQA lead agency and California Native American groups that are traditionally and culturally affiliated with the Project area that have provided formal written request for notification of projects under the agency's jurisdiction and are therefore generally mitigated on a project-by-project basis. As discussed throughout this section, there are no known TCRs within the Project site that would warrant discretionary designation of a resource as a TCR. As such, the Project, as proposed, would not directly or indirectly contribute to an increase in a cumulative impact to known TCRs. The City of Gardena's Municipal Code ensures any unknown TCRs uncovered during Project implementation would be properly identified, evaluated, and treated as outlined in the City's ordinance for Native American or TCRs. Thus, the Project, in combination with the past, present, and reasonably foreseeable future projects in the Project vicinity, would result in less-than-significant cumulative impacts to TCRs, and no further mitigation measures are required. Therefore, the Project's contribution to cumulative impacts would not be cumulatively considerable. As such, cumulative impacts on TCRs would be **less than significant.**

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3.12 Utilities and Service Systems

This section describes the existing utilities conditions of the Project site and vicinity, identifies associated regulatory requirements, evaluates potential impacts, cumulative impacts, and identifies mitigation measures related to implementation of the proposed 1450 Artesia Specific Plan Project (Project or proposed Project).

The analysis of the Project impacts related to utilities and service systems is supported by and based on information provided in the following reports:

- Preliminary Utility Investigation Memorandum, 1450 Artesia Specific Plan Project, City of Gardena California, prepared by Kimley-Horn and Associates, December 2022 (Appendix L1)
- Will Serve Letter for Gardena Industrial, Los Angeles County Sanitation Districts, December 14, 2021 (Appendix L2)
- Information on Fire Flow Availability for Building Permit, 1450 W. Artesia Blvd, Gardena California, dated June 16, 2022 (Appendix L3)
- Preliminary Hydrology and Low Impact Development (LID) Report, 1450 Artesia Boulevard, Gardena California, prepared by Kimley-Horn and Associates, August 3, 2022 (Appendix H)

Other sources consulted are listed in Section 3.12.8, References.

3.12.1 Existing Conditions

This section describes the existing utility and service system conditions in the Project area and also identifies the resources that could be affected by the Project. The Project is located within the jurisdictional boundaries of the City of Gardena (City). Currently, the Project is partially developed on the western side of the site with three warehouses and a variety of trailer-type storage structures that house several small businesses, including a U-Haul rental agency, a metal fabricating shop, a sandblasting and painting company and an auto body repair shop.

Water

Water Supply

Water service is provided to the City of Gardena by the Golden State Water Company (GSWC), Southwest District. Water supplies for GSWC are derived from two principal sources: local groundwater and purchased imported water. Local groundwater is a blend of water pumped from two adjudicated groundwater basins, the West Coast and Central Coast Subbasins. Imported water is sourced from the Colorado River Aqueduct and State Water Project (imported and distributed by Metropolitan Water District of Southern California). GSWC owns 13 active groundwater wells which pump from the West Coast and Central Subbasins of the Coastal Plain of Los Angeles Groundwater Basin (GSWC 2021). GSWC has a total Allowed Pumping Allocation (APA) of 16,439 for all seven service areas subject to the Central Basin Adjudication. The West Coast Basin adjudication limit for groundwater extraction across the entire basin is 64,468 acre-feet per year of which GSWC maintains legal right to 7,502 acre-feet per year as its APA (GSWC 2021).

Historically, GSWC has been able to reliably serve customers' water supply needs from year to year. However, interrupted or significantly reduced water supply, such as a during a drought or as a result of an earthquake, could threaten this reliability. In addition to the direct supply sources from the two groundwater basins and purchased water, GSWC has some flexibility in the management of groundwater so as to move APA in accordance with the rules governing the adjudicated supplies (GSWC 2021). All of these supplies are available in normal, single dry, and five consecutive dry years. In addition, GSWC maintains a water shortage contingency plan, which addresses long-term drought scenarios, as well as catastrophic supply interruptions that could occur suddenly.

Regional imported water supplies are conjunctively managed by the Central and West Basin Municipal Water Districts, and the Metropolitan Water District of Southern California. GSWC coordinates its urban water management planning with each of these entities. During an actual or threatened temporary shortage of imported water to the West Basin Municipal Water District, the Water Replenishment District of Southern California is authorized by the West Coast Basin Judgment to enter into agreements with water purveyors in the basin, which allow the over-extraction of groundwater. This authorized over-extraction can last for 4 months and may be used to produce a maximum of 10,000 acre-feet of water. According to the 2020 UWMP, however, GSWC projects that it will be able to serve 100% of projected demands in normal, single-dry and multiple-dry year scenarios until 2045 (GSWC 2021).

Existing Water Use

The Project site is currently partially developed with numerous light industrial and office building (commercial) land uses. According to the utilities report prepared for the proposed Project, an estimated current water demand for the site was made based on wastewater generation factors from Los Angeles County Sanitation Districts (LACSD) (Appendix L1). The total existing demand for the Project site was conservatively estimated at 604 gallons per day (gpd) (Appendix L1).

Water Infrastructure

Water service for the Project site area is currently provided by an existing public GSWC 12-inch and 4-inch water lines that both located in Artesia Boulevard (Appendix L1). The 12-inch line runs east to South Normandie Avenue where it then heads south. There is also an abandoned 31-inch water line located within the Los Angeles County Flood Control District (LACFCD) easement that runs along South Normandie Avenue (Appendix L1).

Fire hydrants are located on Artesia Boulevard outside of the U-Haul rental facility (approximately 615 feet west of South Normandie Avenue [Appendix L3]) and one at the corner of Artesia Boulevard and South Normandie Avenue.

Wastewater

Regional wastewater service at the Project site is provided by LACSD. Flows from the Project site drain to the Joint Water Pollution Control Plant Sanitary Sewer System (JWPCP) service area in Carson. The JWPCP currently treats an average of 260 million gallons per day (mgd) of wastewater and has a total permitted capacity of 400 mgd (Appendix L1). LACSD's 2019 Annual Report notes that a pilot project to provide up to 500,000 gpd of recycled water for indirect potable reuse was

implemented at the JWPCP, with plans for full implementation in the future. These trunk sewers lead to the JWPCP, which has an existing treatment capacity of 400 mgd (Appendix L1).

An existing 8-inch sewer line is located 24 feet west of the South Normandie Avenue centerline at a depth of approximately 10 feet (Appendix L1). Another 21-inch sewer main line is located on Artesia Boulevard at the centerline of the road. This trunk sewer line has an average grade of 0.41% and is also at a depth of approximately 10 feet. Both sewer lines are owned and maintained by the LACSD. The site currently connects to the 21-inch sewer main in Artesia Boulevard via a lateral connection.

Estimated existing wastewater generation for the Project site, based on LACSD wastewater generation factors for Commercial Shops and Stores was used to calculate total existing daily wastewater flows. As a conservative measure, the generation factor was then reduced by 50% for the calculation of existing wastewater flows (Appendix L1). As a result, the existing wastewater flows from the Project was estimated at 1,510 gpd.

Stormwater Drainage

The Project site and surrounding area are characterized as urban, developed commercial and residential area with limited pervious surfaces. The Project site is currently improved with numerous light industrial and office building (commercial) land uses as well as some former sump areas that are considered impervious for a total impervious surface area of 74% (Appendix H). Stormwater runoff currently flows generally toward the north and east with localized areas on the west and east sides of the site that ultimately discharge to the Dominguez Channel, south of the site. Within Artesia Boulevard there are various catch basins that drain to the Dominguez Channel.

Solid Waste

The collection, transport, and disposal of solid waste and recyclables from commercial land uses in the City is provided by Waste Resources of Gardena. Solid waste collected by Waste Resources is transported to the American Waste Transfer Station, which is operated by Republic Services of California, LLC (1449 West Rosecrans Avenue) or the Waste Resources Recovery Station, which is operated by Waste Resources Recovery. Commercial land uses are the largest producer of disposable waste in the City, generating approximately 35,194 tons of waste and 9,502 tons of recyclable materials annually.

Solid waste that is transferred from the American Waste Transfer Station is sent to any of the following landfills (Republic Services 2020):

- Sunshine Canyon
- Falcon
- Brea Olinda
- Calabasas
- Chiquita Canyon
- Southeast Resource Recovery Facility
- El Sobrante
- Lancaster
- Bowerman
- CVT/Anaheim
- Simi Valley

The majority of solid waste that is transferred from the Waste Resources Recovery Station is disposed of at the Chiquita Canyon Sanitary Landfill located in Castaic (CalRecycle 2023a). Other landfills include El Sobrante Landfill, Antelope Valley, and the Sunshine Canyon City/County Landfill. The Chiquita Canyon facility's maximum permitted capacity is 110,366,000 cubic yards and has a remaining capacity of 60,408,000 cubic yards (CalRecycle 2023b). It is anticipated that Chiquita Canyon Sanitary Landfill would continue to receive a majority of the solid waste from the City until at least the remaining capacity is reached which is estimated to be in January of 2047.

Electric Power

Electricity service is provided to the Gardena area by Southern California Edison, Compton Service Center. Three major substations are located in the vicinity of the Project site, including: La Fresa to the west, Bridge to the northwest, and Moneta substation to the north (SCE 2023). The Project site is part of the overhead Blake circuit line (16 kilovolt) that is served by the La Fresa substation (SCE 2023).

Natural Gas

Natural gas is supplied to the City by Southern California Gas Company. As a public utility, Southern California Gas Company is under the jurisdiction of federal and state regulatory agencies. A medium and high-pressure distribution pipeline system and a high-pressure transmission pipeline system that is nearest to the Project site is located to the south of the site along West 190th Street (SoCalGas 2023).

Telecommunications Facilities

The existing telecommunications services in the vicinity of the Project site are supplied by various utilities providers such as cable/digital TV/Dish/satellite providers including AT&T Internet, DirecTV, Dish Network, Charter Spectrum, Verizon Los Angeles and Viasat (City of Gardena 2023). In addition, cellular service providers in the area include Verizon, AT&T, and T-Mobile.

3.12.2 Relevant Plans, Policies, and Ordinances

Federal

National Pollutant Discharge Elimination System Permit Program

The National Pollution Discharge Elimination System (NPDES) permit program was established in the Clean Water Act to regulate municipal and industrial discharges to surface waters of the United States. Discharge from any point source is unlawful unless the discharge is in compliance with an NPDES permit. The federal NPDES permit regulations have been established for broad categories of discharges, including point-source municipal waste discharges and nonpoint-source stormwater runoff. NPDES permits generally identify effluent and receiving water limits on allowable concentrations and/or mass emissions of pollutants contained in the discharge; prohibitions on discharges not specifically allowed under the permit; and provisions that describe required actions by the discharger, including industrial pretreatment, pollution prevention, self-monitoring, and other activities.

Resource Conservation and Recovery Act

The Resource Conservation and Recovery Act (CFR, Title 40, Section 268, Subpart D), contains regulations for municipal solid waste landfills and requires states to implement their own permitting programs that include federal landfill criteria. The federal regulations address the location, operation, design, and closure of landfills, as well as groundwater monitoring requirements.

State

California Code of Regulations, Titles 14 and 27

Title 14 (Natural Resources, Division 7) and Title 27 (Environmental Protection, Division 2 [Solid Waste]) of the California Code of Regulations govern the handling and disposal of solid waste and operation of landfills, transfer stations, and recycling facilities.

Assembly Bills 939 and 341: Solid Waste Reduction

The California Integrated Waste Management (CIWM) Act of 1989 (Assembly Bill [AB] 939) was enacted as a result of a national crisis in landfill capacity, as well as a broad acceptance of the desired approach to solid waste management of reducing, reusing, and recycling. AB 939 mandated local jurisdictions to meet waste diversion goals of 25% by 1995, 50% by 2000, and established an integrated framework for program implementation, solid waste planning, and solid waste facility and landfill compliance. AB 939 requires cities and counties to prepare, adopt, and submit to the California Department of Resources Recycling and Recovery (CalRecycle) a source reduction and recycling element to demonstrate how the jurisdiction will meet the diversion goals. Other elements included encouraging resource conservation and considering the effects of waste management operations. The diversion goals and program requirements are implemented through a disposal-based reporting system by local jurisdictions under CIWM Board regulatory oversight. Since the adoption of AB 939, landfill capacity is no longer considered a statewide crisis. AB 939 has achieved substantial progress in waste diversion, program implementation, solid waste planning, and protection of public health, safety, and the environment from landfills operations and solid waste facilities.

In 2011, AB 341 was passed, making a legislative declaration that it is the policy goal of the state that not less than 75% of solid waste generated be source reduced, recycled, or composted by the year 2020. AB 341 requires that local agencies adopt strategies that will enable 75% diversion of all solid waste by 2020. This bill requires all commercial businesses and public entities that generate 4 cubic yards or more of waste per week to have a recycling program in place. In addition, multifamily apartments with five or more units are also required to form a recycling program.

Senate Bill 1374: Construction and Demolition Waste Reduction

Senate Bill (SB) 1374 requires that annual reports submitted by local jurisdictions to CIWM Board include a summary of the progress made in the diversion of construction and demolition waste materials. In addition, SB 1374 requires the CIWM Board to adopt a model ordinance suitable for adoption by any local agency that required 50% to 75% diversion of construction and demolition waste materials from landfills. Local jurisdictions are not required to adopt their own construction and demolition ordinances, nor are they required to adopt CIWM Board's model by default.

Assembly Bill 1327: California Solid Waste Reuse and Recycling Access Act of 1991

AB 1327, which was established in 1991, required CalRecycle to develop a model ordinance for the use of recyclable materials in development projects. Local agencies were then required to adopt the model ordinance, or an ordinance of their own, governing adequate areas for collection and loading of recyclable materials in development projects.

Assembly Bill 1826: Mandatory Commercial Organics Recycling

In October 2014, Governor Brown signed AB 1826 Chesbro (Chapter 727, Statutes of 2014), requiring businesses to recycle their organic waste on and after April 1, 2016, depending on the amount of waste generated per week. "Organic waste" is defined as food waste, green waste, landscape, and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste. This law also requires local jurisdictions across the state to implement an organic waste recycling program to divert organic waste generated by businesses, including multifamily residential dwellings that consist of five or more units. This law phases in the mandatory recycling of commercial organics over time. In particular, the minimum threshold of organic waste generation by businesses decreases over time, which means an increasingly greater proportion of the commercial sector will be required to recycle organic waste.

Senate Bill X7-7

SB X7-7, which became effective on February 3, 2010, is the water conservation component to the Delta legislative package (SB 1, Delta Governance/Delta Plan). The bill implements water use reduction goals established in 2008 to achieve a 20% statewide reduction in urban per capita water use by December 31, 2020. The bill requires each urban retail water supplier to develop urban water use targets to help meet the 20% goal by 2020 and an interim 10% goal by 2015. The bill establishes methods for urban retail water suppliers to determine targets to help achieve water reduction targets. The retail water supplier must select one of the four compliance options. The retail agency may choose to comply with SB X7-7 as an individual or as a region in collaboration with other water suppliers. Under the regional compliance option, the retail water supplier must report the water use target for its individual service area.

Sustainable Groundwater Management Act

On September 16, 2014, Governor Jerry Brown signed into law a three-bill legislative package—AB 1739 (Dickinson), SB 1168 (Pavley), and SB 1319 (Pavley)—collectively known as the Sustainable Groundwater Management Act (SGMA). This Act requires governments and water agencies of high- and medium-priority basins to halt overdraft and bring groundwater basins into balanced levels of pumping and recharge. Under SGMA, these basins should reach sustainability within 20 years of implementing their sustainability plans. For critically over-drafted basins, sustainability should be achieved by 2040. For the remaining high- and medium-priority basins, 2042 is the deadline. Through SGMA, the CDWR provides ongoing support to local agencies through guidance, financial assistance, and technical assistance. SGMA empowers local agencies to form Groundwater Sustainability Agencies to manage basins sustainably and requires those Groundwater Sustainability Agencies to adopt Groundwater Sustainability Plans for crucial groundwater basins in California. Adjudicated basins are considered to be low priority basins.

Urban Water Management Plans

Pursuant to the California Urban Water Management Act (California Water Code Sections 10610–10656), urban water purveyors are required to prepare and update an Urban Water Management Plan (UWMP) every 5 years. UWMPs are prepared by California's urban water suppliers to support long-term resource planning and ensure adequate water supplies. Every urban water supplier that either delivers more than 3,000 AFY of water annually or serves more than 3,000 connections are required to assess the reliability of its water sources over a 20-year period under normal-year, dry-year, and multiple-dry-year scenarios in a UWMP. UWMPs must be updated and submitted to the CDWR every 5 years for review and approval. The proposed Project site is within the area addressed by GSWC, Southwest Region, whose current UWMP is the 2020 UWMP released in June 2021 (GSWC 2021).

Senate Bill 610 and Senate Bill 221: Water Supply Assessments

SB 610 and SB 221, amended into state law effective January 1, 2002, improve the linkage between certain land-use decisions made by cities and counties and water supply availability. The statutes require detailed information regarding water availability and reliability with respect to certain developments to be included in the administrative record, to serve as the evidentiary basis for an approval action by the City or County on such projects. Under Water Code Section 10912 [a], projects subject to the California Environmental Quality Act (CEQA) that would require a water supply assessment include the following:

1. Residential development of more than 500 dwelling units
2. Shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space
3. Commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space
4. Hotel, motel or both, having more than 500 rooms
5. Industrial, manufacturing, or processing plants, or industrial parks planned to house more than 1,000 persons, occupying more than 40 acres of land or having more than 650,000 square feet of floor area
6. Mixed-use projects that include one or more of the projects specified
7. A project that would demand an amount of water equivalent to or greater than the amount required by a 500 dwelling unit project

A fundamental source document for compliance with SB 610 is the UWMP, which can be used by the water supplier to meet the standard for SB 610. SB 221 applies to the Subdivision Map Act, conditioning a tentative map on the applicant to verify that the public water supplier has sufficient water available to serve the proposed development.

Executive Order B-29-15

In response to California's previous drought, Executive Order B-29-15 set a goal of achieving a statewide reduction in potable urban water usage of 25% relative to water use in 2013. The term of the Executive Order extended through February 28, 2016, although many of the directives became permanent water-efficiency standards and requirements. The Executive Order includes specific

directives that set strict limits on water usage in the state. In response to Executive Order B-29-15, the CDWR modified and adopted a revised version of the Model Water Efficient Landscape Ordinance that, among other changes, significantly increases the requirements for landscape water use efficiency and broadens its applicability to include new development projects with smaller landscape areas.

Sanitary Sewer General Waste Discharge Requirements

On May 2, 2006, the State Water Resources Control Board adopted a General Waste Discharge Requirement (Order No. 2006-0003) for all publicly owned sanitary sewer collection systems in California with more than 1 mile of sewer pipe. The order provides a consistent statewide approach to reducing sanitary sewer overflows by requiring public sewer system operators to take all feasible steps to control the volume of waste discharged into the system in order to prevent sanitary sewer waste from entering the storm sewer system, and to develop a Sewer System Management Plan. The General Waste Discharge Requirement also requires that storm sewer overflows be reported to the State Water Resources Control Board using an online reporting system.

California Code of Regulations Title 24, Part 11

In 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code, Part 11 of Title 24, is commonly referred to as CALGreen and establishes minimum mandatory standards as well as voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency, water conservation, material conservation, and interior air quality. The CALGreen standards took effect in January 2011 and instituted mandatory minimum environmental performance standards for all new construction of residential and non-residential buildings. CALGreen standards are updated periodically. The latest version became effective on January 1, 2023.

Mandatory CALGreen standards pertaining to water, wastewater, and solid waste include the following (24 CCR Part 11):

- Mandatory reduction in indoor water use through compliance with specified flow rates for plumbing fixtures and fittings
- Mandatory reduction in outdoor water use through compliance with a local water-efficient landscaping ordinance or the CDWR's Model Water Efficient Landscape Ordinance
- Diversion of 65% of construction and demolition waste from landfills

Local

Water Quality Control Plans (Basin Plans)

The Porter-Cologne Act, Section 13000, directs each Regional Water Quality Control Board to develop a water quality control plan (Basin Plan) for all areas within its region. The Basin Plan is the basis for each Regional Water Quality Control Board's regulatory program. The Project site is located within the purview of the Los Angeles Regional Water Quality Control Board (Region 4), and the proposed Project must comply with applicable elements of the Basin Plan for Region 4. The Basin Plan gives direction on the beneficial uses of state waters, describes the water quality that must be maintained, and provides programs necessary to achieve the standards established in the Basin Plan.

Integrated Regional Water Management Plans

UWMPs serve as building blocks for Integrated Regional Water Management Plans (IRWMPs). IRWMPs define a clear vision and strategy for the sustainable management of water resources within a specific region delineated by one or more watersheds. IRWMPs generally contain an assessment of current and future water demand, water supply, water quality, and environmental needs. These plans address the challenges for delivering a stable and clean supply of water for the public, addressing stormwater and urban runoff water quality, providing flood protection, meeting water infrastructure needs, maximizing the use of reclaimed water, enhancing water conservation, and promoting environmental stewardship.

During the planning process, all stakeholders, including water distributors and purveyors, regional waterworks and sanitation districts, local public works departments, environmental organizations, nonprofits, and other vested interests work together to develop common goals, objectives, and strategies. Since water-related issues are addressed on a regional, watershed basis, these plans are instrumental in building consensus among the various stakeholders in the development and prioritization of an action plan that is complementary and leverages inter-jurisdictional cooperation, resources, and available funding. The Project site is within the Greater Los Angeles County IRWMP area. The IRWMP for this area was last updated in 2014.

Countywide Integrated Waste Management Plan

In compliance with AB 939, the County of Los Angeles has implemented an Integrated Waste Management Plan that contains the County's and the Cities' solid waste reduction planning documents plus the Integrated Waste Management Summary Plan and Countywide Siting Element. The Los Angeles County Department of Public Works is responsible for preparing and administering the Integrated Waste Summary Plan and the Countywide Siting Element. The existing element, approved by CalRecycle on June 24, 1998, identifies how the County and cities would meet their long-term disposal capacity needs to safely handle solid waste that cannot be reduced, recycled, or composted.

The Los Angeles County Department of Public Works also prepares an annual report to summarize the changes that have taken place since the approval of the existing Countywide Integrated Waste Management Plan and the existing Countywide Siting Element. The annual reports include assessments of the County's disposal capacity needs, provide detailed updates on the remaining permitted in-County disposal capacity, and include the County's strategy for maintaining adequate disposal capacity through 2027.

General Plan

The City of Gardena General Plan was adopted in 2006 and includes goals and policies within the required elements including the Conservation Plan. The following is a list of goals and policies applicable to the proposed Project relating to Utilities:

Conservation Plan

CN Goal 3. Reduce the amount of solid waste produced in Gardena.

Policy CN 3.1. Comply with the requirements set forth in the City's Source Reduction and Recycling Element.

Policy CN 3.2. Maximize public awareness of all source reduction and recycling programs.

Policy CN 3.3. Encourage participation in local and County waste disposal programs for such household hazardous waste items as automotive products, paints, chemicals, tires, and batteries.

3.12.3 Thresholds of Significance

The significance criteria used to evaluate the Project impacts related to utilities and service systems are based on Appendix G of the CEQA Guidelines. According to Appendix G of the CEQA Guidelines, a significant impact related to utilities and service systems would occur if the Project would:

1. Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?
2. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?
3. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?
4. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?
5. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Based on the results of the Initial Study prepared for the project (Appendix A), the following thresholds are evaluated in this section of the Draft EIR:

UTL-1. Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

UTL-2. Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?

UTL-3. Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

UTL-4. Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

UTL-5. Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

3.12.4 Impact Analysis

Threshold UTL-1. Would the Project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

Water Facilities

The proposed Project would involve the construction of water distribution infrastructure (e.g., pipes, valves, meters) to provide domestic water, firewater, and irrigation water to serve the new buildings and facilities within the Project site. The on-site facilities would be connected to off-site water lines in the adjacent rights-of-way. Installation of new water infrastructure would be limited to on-site water distribution, and minor off-site work associated with connections to the public main. No upgrades to public water mains are anticipated (Appendix L1). Prior to ground disturbance, Project contractors would coordinate with GSWC to identify the locations and depth of all existing water lines. Further, GSWC and the City of Gardena would be notified in advance of proposed ground disturbance activities to avoid water lines and disruption of water service. The on-site facilities and installation/construction of tie-ins are considered part of the proposed Project. All construction work within the City public right-of-way would be subject to City municipal code requirements. Other than the lateral connections from the Project site to existing water mains, the proposed Project is not expected to require or result in construction or expansion of off-site infrastructure.

In addition, and consistent with Section 3.7, Hydrology and Water Quality, standard best management practices, installed as part of an NPDES-mandated stormwater pollution prevention plan, would reduce potential water quality impacts associated with the referenced water facility connections to less-than-significant levels. As such, the proposed Project would not result in the expansion or construction, expansion, or relocation of off-site water infrastructure, and it is unlikely that there would be any significant environmental effects related to the construction of water infrastructure within the Project site. As a result, impacts would be **less than significant**.

Wastewater Facilities

The Project will require construction of new wastewater infrastructure within the Project site to serve the proposed Project. Construction impacts within the Project site associated with wastewater infrastructure would primarily be confined to trenching for miscellaneous utility lines and connections to existing public infrastructure. Installation of wastewater infrastructure would be limited to on-site wastewater distribution, and minor off-site work associated with connections to the public main. No upgrades to the public main are anticipated (Appendix L1). Any work that may affect services to the existing sewer lines would be coordinated with the City of Gardena.

The Project site is served by an existing sewer main present in Artesia Boulevard. The existing 21-inch diameter sewer line ultimately drains to the JWPCP (Appendix L1). LACSD has provided a will-serve letter for the Project site, which indicates that their pipeline contains enough capacity to accommodate the proposed sewer connection and flows from the Project (Appendix L2). It is not anticipated that any sewer lines will need to be upsized as a result of the Project. There would not be any significant environmental effects related to the construction of water infrastructure within the Project site. As a result, impacts would be **less than significant**.

Stormwater Drainage Facilities

The Project site and surrounding area is characterized as an urban, developed commercial and residential area with limited pervious surfaces. The existing sump areas on the Project site are going to be covered in impervious surfaces as part of the requirements of the final remediation of the site to avoid contact of runoff with underlying contamination. As discussed in Section 3.7, stormwater infiltration would not be utilized as a low impact development feature as a part of the proposed Project; however, a large on-site cistern would be constructed for storage of the required volume of stormwater which would then be used for on-site irrigation.

The construction of all the proposed drainage improvements including the on-site cistern have been included in the analysis of all other sections of this document as part of construction and there are no other significant impacts that would occur. As a result, the Project would not result in the expansion of any existing off-site facilities or in the construction or relocation of new off-site facilities and upon compliance with the applicable regulatory requirements, impacts associated with the construction of any new stormwater drainage facilities would be **less than significant.**

Electrical Power, Natural Gas, and Telecommunication Facilities

Connection upgrades may be required with respect to electric power, natural gas, and telecommunication facilities (i.e., cable/internet services), based on the change in land use. These utilities would be part of a dry utility package that would be installed on site and in the adjacent public roadways to provide service to the Project. Upgrades would be confined to the connections to the Project site and not any off-site centralized facilities. The existing infrastructure is located directly adjacent to the Project site within the public streets. Connection to these existing utilities would require limited construction, which would be temporary and limited to trenching, to the depth of the underground lines. Project construction would occur in accordance with all applicable regulatory requirements. As a result, impacts associated with upgrades of electric, natural gas, and telecommunication lateral connections to the Project site would be **less than significant**.

Threshold UTL-2. Would the Project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years?

Water supply in the City is provided by GSWC, Southwest Service Area, which sources its water supply from a combination of groundwater (a blend of groundwater from the West Coast and Central Coast Basins) and imported surface water from the Colorado River Aqueduct and State Water Project. The two groundwater basins are adjudicated and managed in accordance with the court approved judgement. The Judgement limits the pumping that each entity may extract from the basin, referred to as the "Allowed Pumping Allocation." According to the Utilities Assessment prepared for the

proposed Project, the Project is expected to increase water demands by 21 acre-feet per year compared to existing conditions (Appendix L1). This represents only 0.08% of the total projected water demand for the GSWC Southwest Service area in 2025 (GSWC 2021). The 2020 GSWC UWMP has planned for growth within the area over the next 25 years. GSWC has made an allowance for future demand estimates based on historical growth rates in the service area. Based on these projections, GSWC has adequately made allowance for water supply–demand increases for both domestic and commercial water supply, including groundwater, over the next 25 years. According to 2020 UWMP for the Southwest Service Area, GSWC can adequately supply projected water demands during normal, single dry year, and multiple dry year scenarios out to 2045 (GSWC 2021). While the proposed Project was not specifically included as part of the UWMP, the demand projections for the service area do account for growth over the planning horizon and the proposed Project's demand is within the anticipated growth for their service area and the 2020 UWMP demand projections.

Furthermore, as long-term water supply is a significant concern in California, GSWC can increase supply to meet future demands increasing production of groundwater based off safe yield allocation and utilization of water in storage, increasing imported water purchases, if available and there is sufficient storage capacity, and by purchasing additional recycled water, if available. Collectively, these additional options would enable water supply to meet or exceed water demand for GSWC for now and into the future. As a result, the Project would result in **less-than-significant impacts** related to the water supply.

Threshold UTL-3. Would the Project result in a determination by the wastewater treatment provider which serves or may serve the Project that it has adequate capacity to serve the Project's projected demand in addition to the provider's existing commitments?

The wastewater generated by the proposed Project would be treated at the Joint Water Pollution Control Plant (JWPCP) in Carson. The JWPCP has a capacity to treat up to 400 mgd and is currently processing an average flow of 249.8 mgd (Appendix L2). The expected increase in average wastewater flow from the Project is 17,786 gpd, after all structures on the Project site are demolished (Appendix L2). This increase in wastewater generation represents approximately 0.012% of the remaining capacity of the JWPCP facility. As such, the increase in wastewater generation attributable to the Project would be accommodated within the existing available treatment capacity of the receiving facility and would represent a minimal to negligible percentage of the facility's remaining capacity. Therefore, the Project would not require the construction of additional wastewater treatment infrastructure and the potential impacts would be **less than significant**.

Threshold UTL-4. Would the Project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Construction

Construction of the proposed Project would result in the generation of demolition debris and solid waste including scrap lumber, concrete, residual wastes, packing materials, plastics, and soils. Any hazardous wastes that are generated during demolition and construction activities would be managed and disposed of in compliance with all applicable federal, state, and local laws. Per CALGreen requirements, 65% of construction and demolition waste must be diverted from landfills.

As such, at least 65% of all construction and demolition debris from the site would be diverted. The City also has construction and demolition debris diversion requirements (Section 8.20.060.C) to meet state standards; however, the CALGreen standards require an equivalent level of diversion (65% diversion). The remaining 35% of construction and demolition material that is not required to be recycled would either be disposed of or voluntarily recycled at a solid waste facility with available capacity. As described above, the Chiquita Canyon Landfill, the primary landfill receiving solid waste from the area, has a remaining capacity of 60,408,000 cubic yards and is expected to remain open until January 2047 (CalRecycle 2023b).

For the reasons previously stated, Project demolition and construction would not generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals (e.g., CALGreen standards). Impacts would be **less than significant**.

Operation

Once operational, the proposed Project would produce solid waste on a regular basis, in association with operation and maintenance activities. Anticipated solid waste generation attributable to the Project is estimated based on rates established by CalRecycle as shown in Table 3.12-1, Anticipated Solid Waste Generation (CalRecycle 2023c).[1] The solid waste generation rates assume compliance with AB 341.

Table 3.12-1. Anticipated Solid Waste Generation

Land Use	Solid Waste Generation (rate)	Solid Waste Generation (tons per year)
Self-storage (10,000 SF)	1.42 pounds/100 SF/day[1]	18
Industrial Warehouse (86,000 SF)	1.42 pounds/100 SF/day	223
Office (10,000 SF)	6 pounds/1,000 SF/day	11
	Total	**252**

Source: CalRecycle 2023c.
Note:
1 The best applicable fit for self-storage facilities is a manufacturing/warehouse land use which might be conservatively high.

As described in Section 3.12.1, Existing Conditions, the solid waste in the City is primarily hauled to the Chiquita Canyon Landfill. The Chiquita Canyon facility has a remaining capacity of 60,408,000 cubic yards (CalRecycle 2023b). It is anticipated that Chiquita Canyon Sanitary Landfill would continue to receive a majority of the solid waste from the City until at least the remaining capacity is reached which is estimated to be in January of 2047. The estimated annual solid waste generation

1 An alternate rate that could be used would be based on the number of employees, which for the Project is estimated at a total of 40. Using the warehouse rate of 13.82 pounds/employee/day results in approximately 100 tons annually (CalRecycle 2023c). To be conservative, the rates shown in Table 3.12-1 are used, which are based on square footage.

attributed to the Project would be 252 tons which translates to approximately 933 cubic yards (based on a generalized conversion of 3.704 cubic yards per ton). The net solid waste that is anticipated to be produced by the proposed Project would equate to approximately 0.0015% of the available capacity of the Chiquita Canyon Landfill through its estimated closure date.

Once the Chiquita Canyon Landfill reaches capacity, additional landfills and strategies would be identified so that disposal needs continue to be met. Further, according to the latest annual report for the Countywide Integrated Waste Management Plan, there are landfills used by the County with up to 109 years of remaining life. For example, the Prima Deshecha Sanitary Landfill in Orange County is expected to remain open for another 83 years, the Mesquite Regional Landfill in Imperial County is expected to remain open for another 109 years, and the Simi Valley Landfill in Ventura County is expected to remain open for another 109 years (Los Angeles County Public Works 2020). As such, in the event of closure of the El Sobrante and Lancaster landfills, other landfills in the region would be able to accommodate solid waste from the proposed Project, and regional planning efforts would ensure continued landfill capacity into the foreseeable future.

For the reasons described above, Project operations would not generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals. Impacts would be **less than significant.**

Threshold UTL-5. Would the Project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

As described above, solid waste from commercial uses in the City are brought to either the American Waste Transfer Station or the Waste Resources Recovery Station. From there, the waste is primarily taken to the Chiquita Canyon Landfill. These facilities are regulated under federal, state, and local laws. Additionally, the City is required to comply with the solid waste reduction and diversion requirements set forth in AB 939, AB 341, AB 1327, and AB 1826 (Section 3.12.2, Relevant Plans, Policies, and Ordinances). Per AB 341, businesses that generate 4 cubic yards or more of commercial solid waste per week are required to arrange for organic waste recycling services.

In addition, as previously described, waste diversion and reduction during Project construction and operations would be completed in accordance with CALGreen standards and City diversion standards. As a result, the proposed Project would comply with federal, state, and local management and reduction statutes and regulations related to solid waste. Impacts are considered **less than significant**.

3.12.5 Mitigation Measures

Impacts would be less than significant, and no mitigation measure are required.

3.12.6 Level of Significance After Mitigation

Impacts would be less than significant, and no mitigation measure are required.

3.12.7 Cumulative Effects

Water

The proposed Project would increase water demand on the Project site relative to existing conditions and require lateral connections to existing infrastructure. As analyzed in Section 3.12.4, Impact Analysis, it was determined that existing infrastructure would not have constraints for providing the water flow required for the proposed Project. Improvements would be limited to the Project site and the immediately adjacent street frontages, where connections would be established to existing infrastructure. As such, existing water conveyance infrastructure would be sufficient to serve Project and each cumulative project would be required to obtain will-serve letters, thereby ensuring that sufficient capacity would be available. Therefore, the Project would not combine with cumulative projects to become cumulatively considerable.

Water supply for the area is provided by GSWC, Southwest Service Area, which sources its water supply from a combination of groundwater (a blend of groundwater from the West Coast and Central Coast Basins) and imported surface water from the Colorado River Aqueduct and State Water Project. As analyzed in Section 3.12.4, the proposed Project is expected to increase water demands by 21 acre-feet per year compared to existing conditions represent just 0.08% of the total projected water demand for the GSWC Southwest Service area in 2025 (GSWC 2021). The 2020 GSWC UWMP has planned for growth within the area over the next 25 years. GSWC has made an allowance for future demand estimates based on historical growth rates in the service area and projected growth for the service area which would likely include the cumulative projects as they fit into regional growth planning. Based on these growth projections, GSWC has demonstrated adequate water supplies that can meet demands for its service area during normal, single dry year, and multiple dry year scenarios out to 2045 (GSWC 2021). Related cumulative projects within the service area that are consistent with growth projections are also expected to be accommodated within the projected water supplies. Any projects that exceed growth projections may require additional analyses and/or further verification that sufficient water supplies exist. For these reasons, it is expected that there would be sufficient water supplies available to serve the Project and reasonably foreseeable future development during normal, dry, and multiple dry years. As such, the Proposed Project would not create or contribute to a cumulatively significant impact involving water supply or infrastructure. Cumulative impacts would be **less than significant**.

Wastewater

Based on the analysis presented for the proposed Project in Section 3.12.4, the sewer system serving the Project site would be adequate for supporting the Project's anticipated wastewater flows. Improvements would be limited to the Project site and the immediately adjacent street frontages, where connections would be established to existing infrastructure. The existing sewer system would have adequate capacity to serve the proposed Project, and no other new or upgraded sewer lines would be necessary as a result of the Project (aside from the establishment of connections). This analysis indicates that sufficient capacity remains in the sewer systems served by the Project and each individual cumulative Project would be required to obtain will-serve letters demonstrating adequate capacity or include system upgrades as part of project plans. As such, the proposed Project

would not create or contribute to a cumulatively significant impact involving the capacity of wastewater conveyance infrastructure.

As analyzed in Section 3.12.4, wastewater from the Project would be treated at JWPCP. The Project's increase in wastewater generation represents approximately 0.012% of the remaining capacity of the facility. As such, the increase in wastewater generation attributable to the Project would be easily accommodated within the existing treatment capacity and would represent a minimal to negligible percentage of the facility's remaining capacity. Further, wastewater treatment facilities are planned based on regional growth projections. So long as projects fall within these projections, existing wastewater treatment facilities have been planned to accommodate commensurate increases in wastewater generation across the region. Because the Project and related projects fall within regional growth projections, cumulative impacts related to exceedances of wastewater treatment requirements would be **less than significant**.

Stormwater

As described in Section 3.12.4, the proposed Project would include drainage control improvements and due to limitations for any on-site infiltration largely due to required protection of the former sump areas and underlying contamination would require constructing a cistern on site to detain stormwater runoff. Just as would be true of the cumulative projects, through compliance with stormwater regulations, stormwater flows would be limited to the extent practicable. Due to compliance with modern stormwater regulations, cumulative projects often result in either no new net increase or a reduction in stormwater flows relative to existing conditions. Therefore, development of the overall cumulative scenario is generally expected to reduce stormwater flows, thereby decreasing demands on stormwater drainage infrastructure. As such, the proposed Project is not expected to create or contribute to an areawide increase in such flows that could lead to the need for new infrastructure. As such, the proposed Project would not create or contribute to a cumulatively significant effect involving stormwater drainage facilities. Cumulative impacts would therefore be considered **less than significant**.

Electricity

SCE provides electricity to the City. As such, the proposed Project and most related projects are located within the SCE service area. In general, most cumulative projects would be required to obtain a will-serve letter prior to approval. As analyzed in 3.12.4, the increase in electricity demand at the Project site would be negligible relative to the existing electricity use in SCE's service area. The Project would also comply with and implement a variety of energy-efficiency measures, which would further reduce operational electricity consumption. While development of the cumulative scenario would incrementally increase electricity demand in the Project vicinity, electrical service providers such as SCE engage in detailed planning processes that include projections for future demands and associated improvements, when necessary. Any such improvements to the electrical system would be subject to separate CEQA review.

Furthermore, some of the related projects are redevelopment projects and would involve replacement of older structures with more efficient buildings. As such, as the cumulative scenario becomes developed over time, buildings in the area would generally increase in energy efficiency, thereby contributing to per-capita reductions in electricity use. For these reasons, the proposed

Project would not create or contribute to a cumulatively considerable effect involving electrical infrastructure. Cumulative impacts would be **less than significant**.

Natural Gas

SoCalGas provides natural gas service to the City. As such, the proposed Project and most related projects are located within the SoCalGas service area. In general, cumulative projects would be required to obtain a will-serve letter prior to project approval. The proposed Project would also comply with and implement a variety of energy-efficiency measures consistent with current building code requirements, which could reduce natural gas consumption. While development of the cumulative scenario could incrementally increase natural gas demand in the Project vicinity, natural gas service providers such as SoCalGas engage in detailed planning processes that include projections for future demands and associated improvements, when necessary. Any such improvements to the natural gas storage and distribution system would be subject to separate CEQA review.

Furthermore, some of the related projects are redevelopment projects and would involve replacement of older structures with more efficient buildings. As such, development of the cumulative scenario as a whole could incrementally increase per-capita energy efficiency over time. For these reasons, the proposed Project is not expected to create or contribute to a cumulatively significant effect related to natural gas infrastructure. As such, cumulative impacts are considered **less than significant**.

Telecommunications

The proposed Project and larger-scale related projects would require localized upgrades to telecommunication facilities, based on the change in land use (i.e., higher density and increase in on-site technology). Upgrades would be completed by the telecommunication providers in the area or by developers in coordination with the providers. Because the Project area is urbanized, it is already served by several telecommunication services. As such, improvements are expected to be limited to development sites and/or their immediate street frontages. As with other utilities, larger system improvements would be planned separately and would be subject to separate CEQA review. For these reasons, the proposed Project is not expected to create or contribute to a cumulatively significant effect related to telecommunications infrastructure. As such, cumulative impacts are considered **less than significant**.

Solid Waste

Construction and operation of the proposed Project and related projects would generally represent an increase in intensity of uses on the respective project sites, which would be associated with increased generation of solid waste. Solid waste services within the City are provided by Waste Resources of Gardena. As described in Section 3.12.4, the proposed Project's solid waste generation would equate to a minor increase in solid waste production and would have a negligible effect on infrastructure. Related projects would typically result in similar minor to negligible increases. When added together, such increases would become incrementally greater. However, compliance with modern solid waste regulations requires diversion of 75% of solid waste from landfills. As such, only a fraction of the solid waste produced by the cumulative projects would ultimately be disposed in landfills. The proposed Project and related projects would be required to comply with all applicable local and state regulations related to solid waste. Furthermore, as described in Section 3.12.4,

ongoing regional planning processes are in place to ensure adequate landfill capacity into the future, based on projections for population, employment, and taxable sales. As such, the proposed Project and related projects that fall within growth projections for the region are expected to be accommodated in the region's plans for adequate landfill capacity. For these reasons, the proposed Project would not create or contribute to a cumulatively significant impact involving solid waste. Cumulative impacts related to solid waste are determined to be **less than significant**.

3.12.8 References

CalRecycle, 2023a. Jurisdictional Disposal by Facility, Disposal during 2019 for Gardena, accessed August 22, 2023, https://www2.calrecycle.ca.gov/LGCentral/DisposalReporting/Destination/DisposalByFacility.

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SoCalGas (Southern California Gas Company), 2023. Gas Transmission Pipeline Interactive Map, accessed August 22, 2023, https://socalgas.maps.arcgis.com/apps/webappviewer/index.html?id=c85ced1227af4c8aae9b19d677969335.

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4 Other CEQA Considerations

4.1 Introduction

This chapter of the Environmental Impact Report (EIR) for the 1450 Artesia Specific Plan (Project or proposed Project) has been prepared in furtherance of the content requirements set forth in the California Environmental Quality Act (CEQA) Guidelines Section 15126.2. As such, this chapter discusses the following:

- Effects Found Not to be Significant (Section 4.2)
- Significant and Unavoidable Environmental Impacts (Section 4.3)
- Significant Irreversible Changes (Section 4.4)
- Growth-Inducing Impacts (Section 4.5)

4.2 Effects Found Not to Be Significant

Section 15128 of the CEQA Guidelines requires that an EIR briefly describe potential environmental effects that were determined not to be significant and therefore were not discussed in detail in the EIR. The environmental issues discussed in the following sections were found not to be significant through completion of the June 2023 Initial Study for the proposed Project. The reasons for these less-than-significant impact or no impact determinations are discussed herein.

4.2.1 Aesthetics

Scenic Vistas

As discussed in the Initial Study, included in Appendix A of this EIR, there are no officially designated or eligible state scenic highways within the vicinity of the Project. The nearest state scenic highways are two eligible highways, Route 19 in Long Beach and Route 187 in coastal Santa Monica, which are more than 10 miles southeast and 12 miles northwest of the Project site, respectively (Caltrans 2018). Neither highway is visible from the Project site. As such, the Project would have no impact on scenic resources within a state scenic highway.

Scenic Resources

As discussed in the Initial Study, included in Appendix A of this EIR, there are no state scenic highways that occur within the vicinity of the Project site. The nearest Officially Designated State Highway is the portion of State Route 2 along the San Gabriel Mountains, located over 20 miles northwest of the Project site in Los Angeles County (Caltrans 2018). Based on this distance and intervening natural topography and human-made development, the Project site is not located within the viewshed of this officially designated state scenic highway. Therefore, no impacts associated with state scenic highways would occur.

Visual Character

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site is located within an urbanized area and is surrounded on all sides by existing urban development. The Project includes adoption of the 1450 Artesia Specific Plan, which would include development standards such as building materials, maximum building height and intensity, architectural requirements, lighting standards and landscaping requirements, which the proposed development would adhere to and which would ensure that impacts to the visual character of the area are less than significant.

Substantial Light or Glare

As discussed in the Initial Study, included in Appendix A of this EIR, the Project would include development of the Project site with industrial (warehouse)/distribution, office/retail and self-storage uses, which would introduce new lighting from sources within the building as well as parking and exterior security lighting. The use of reflective building materials in the construction of the building would add a new source of glare. However, the Project would be designed and constructed in accordance with the City's municipal code and development standards. Additionally, the Project includes adoption of the 1450 Artesia Specific Plan, which would include site-specific development standards such as building material and lighting standards. Adherence to those standards would ensure that impacts relating to light and glare would be less than significant.

Cumulative Impacts

As discussed above, the Project would not impact scenic vistas or scenic resources and would not significantly impact the visual character of the area or introduce substantial light or glare. Additionally, the Project is consistent with applicable regulations, plans, and policies regarding scenic quality. All future development within the City would be required to conform to the regulations set forth by the City. The Project would not combine with other projects to result in significant cumulative impacts associated with aesthetics. Conformance to these regulations would ensure that scenic quality is appropriately protected and preserved, and therefore, implementation of the proposed Project would result in no cumulative impact on aesthetics.

4.2.2 Agriculture and Forestry Resources

Conversion of Farmland

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site is located in an urbanized area and is identified as Urban and Built-Up Land (California Department of Conservation 2022). The closest identified farmland is a strip of Unique Farmland that runs along the opposite side of the Dominguez Channel between South Vermont Avenue and South Normandie Avenue (less than 0.1 miles southeast of the Project site). Another strip of Unique Farmland is located on the opposite side of the Dominguez Channel approximately 0.4 miles southwest of the Project site (California Department of Conservation 2022). However, the farmland is separated from the proposed Project site by the Dominguez Channel and will not be impacted by the Project. As such, the Project would have no impact related to the conversion of Farmland to non-agricultural uses.

Agricultural Zoning and Williamson Act Contracts

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site is urbanized. The site is zoned does not contain agricultural uses or Williamson Act contracts. As such, the Project would have no impact related to zoning for agricultural uses.

Conversion of Forest Lands

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site is in an urbanized area and is zoned for industrial and commercial uses under the 1450 Artesia Specific Plan, which does not contain forest or timberland uses. As such, the Project would have no impact on zoning for forest land or timberland.

Loss of Forest Lands

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site does not contain any forest land nor is any forest land located within the vicinity of the site. As such, the Project would have no impact related to the loss or conversion of forest land to non-forest uses.

Other Changes in the Existing Environment Resulting in Conversion of Farmland or Forest Land

As discussed in the Initial Study, included in Appendix A of this EIR, the Project would include development of commercial, self-storage and industrial/warehouse uses in a highly urbanized area where such uses are consistent with the surrounding area. As such, the Project would have no impact on farmland or forest land.

Cumulative Impacts

As the Project site and surrounding area do not include nor are adjacent to farmland or forest resources and are zoned for urban uses, the Project would not combine with other projects to result in significant impacts associated agriculture and forestry resources. The Project would have no cumulative impact on agricultural and forestry resources.

4.2.3 Air Quality

Other Emissions (Odors)

As discussed in the Initial Study, included in Appendix A of this EIR, the occurrence and severity of potential odor impacts depends on numerous factors. The nature, frequency, and intensity of the source; wind speed and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying, cause distress among the public, and generate citizen complaints.

During Project construction, exhaust from equipment may produce discernible odors typical of most construction sites. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment. However, such odors would disperse rapidly from the Project site and would generally occur at magnitudes that

would not affect substantial numbers of people. Land uses and industrial operations associated with operational odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). Operation of the proposed Project would not entail any of these potentially odor-causing land uses. Furthermore, during construction and operation of the proposed Project, the Applicant, construction contractor, and Project operators would be required to comply with SCAQMD Rules 401, 402, and 403. Rule 401 prohibits discharge of air contaminants that are dark in shade or that obscure an observer's view for more than 3 minutes over the course of an hour. Rule 402 prohibits discharge of air contaminants that cause injury, detriment, nuisance, or annoyance to a considerable number of people or to the public, or that endanger the comfort, repose, health, or safety of people or the public, or that cause or have a natural tendency to cause injury or damage to business or property. Rule 403 requires implementation of dust control measures during activities capable of generating fugitive dust. Due to the nature of Project construction and operation, and upon compliance with applicable SCAQMD rules, the Project would not create any new sources of odor during construction or operation. Impacts would be less than significant.

4.2.4 Biological Resources

Special-Status Species

As discussed in the Initial Study, included in Appendix A of this EIR, relevant databases that contain information on candidate, sensitive, and/or special-status species include the California Department of Fish and Wildlife California Natural Diversity Database (CNDDB) (CDFW 2022), the California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants (CNPS 2022), and the U.S. Fish and Wildlife Services (USFWS) Information for Planning and Consultation (IPaC) Database (USFWS 2022a). The results of these queries included 49 special-status plant species and 47 special-status wildlife species have recorded occurrences in the U.S. Geologic Survey's Inglewood, California 7.5-minute topographic quadrangle, which contains the Project site, and surrounding quadrangles, as well as species from IPaC. Appendix A of the Initial Study (included within Appendix A of this EIR) includes the results of the queries of the CNDDB, CNPS Inventory, and IPaC.

The Project site does not have the potential to contain any special-status plant or wildlife species since suitable habitat is not present on site or adjacent to the Project site. The buildings on site and in the vicinity are maintained and would provide little to no value to roosting bats; however, it is expected that bats would forage in the area. No critical habitat has been designated that contains the Project site or adjacent areas (USFWS 2022a). Therefore, impacts to special-status species would not occur.

Sensitive Natural Communities

As discussed in the Initial Study, included in Appendix A of this EIR, three sensitive habitats have been recorded in the CNDDB within the queried area (CDFW 2022). However, the Project site is developed with paved surfaces, buildings, and landscaped areas, with no native or naturalized vegetation communities present. No riparian or wetland features are present to support riparian habitat (USFWS 2022b). The Dominguez Channel is a concrete channel with no vegetation present. Therefore, there would be no impact to riparian habitat or sensitive natural communities.

Wetlands

As discussed in the Initial Study, included in Appendix A of this EIR, no wetlands or other jurisdiction waters are within the Project site (USFWS 2022b). Water from rainfall flows across the impervious surfaces found on the Project site and enters the municipal stormwater system. Potential indirect impacts during construction to the water in Dominguez Channel would be avoided by erosion-control measures that would be implemented as part of the Storm Water Pollution Prevention Plan (SWPPP) for the Project. Prior to the start of construction activities, the Contractor is required to file a Permit Registration Document (PRD) with the State Water Resources Control Board (SWRCB) in order to obtain coverage under the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with the Construction and Land Disturbance Activities (Order No 2009-009-DWQ, NPDES No. CAS000002) or the latest approved general permit. This permit is required for earthwork that results in the disturbance of 1 acre or more of total land area. The required SWPPP will mandate the implementation of best management practices (BMPs) to reduce or eliminate construction-related pollutants in the runoff, including sediment. Therefore, temporary indirect impacts would be less than significant through compliance with regulations.

Wildlife Movement and Corridors

As discussed in the Initial Study, included in Appendix A of this EIR, there are no drainages or ponds on the Project site that may serve as habitat for fish species. The Project site is developed and surrounded by developed areas, and it does not reside within any designated wildlife corridors and/or habitat linkages identified in the South Coast Missing Linkages analysis project (South Coast Wildlands 2008) or California Essential Habitat Connectivity project (Spencer et al. 2010), so the Project would not affect the movement of any native resident or land-based wildlife species, nor would it affect established native resident or migratory wildlife corridors.

Ornamental vegetation located on the Project site could provide suitable nesting habitat for some urban-adapted bird species. All development activities are subject to the requirement to protect nesting birds, in compliance with the Migratory Bird Treaty Act and Sections 3503, 3503.5, and 3513 of the California Fish and Game Code, which prohibits the accidental or "incidental" taking or killing of migratory birds. The Project would be required to comply with the Migratory Bird Treaty Act and Sections 3503, 3503.5, and 3513 of the California Fish and Game Code by preventing the disturbance of nesting birds during Project construction activities. This would generally involve clearing the Project site of all vegetation outside the nesting season (from September 1 through January 31) or if construction would commence within the nesting season (which generally runs from February 1 through August 31 and as early as February 1 for raptors), conducting a pre-construction nesting bird survey to determine the presence of nesting birds or active nests at the Project site. Any active nests and nesting birds must be protected from disturbance by construction activities through buffers between nest sites and construction activities. The buffer areas may be removed only after the birds have fledged. Impacts would be less than significant.

Policies Protecting Biological Resources

As discussed in the Initial Study, included in Appendix A of this EIR, any development activities conducted pursuant to the Specific Plan would be required to comply with all applicable requirements set forth by the City, including the City's street tree regulations. Impacts would be less than significant.

Habitat Conservation Plans

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site is located in a highly urbanized area, and there is no adopted Habitat Conservation Plan or Natural Community Conservation Plan for the site or the surrounding area (CDFW 2019). No conflict with a Habitat Conservation Plan or Natural Community Conservation Plan would occur with the Project. Therefore, impacts associated with biological resources would not occur.

4.2.5 Geology and Soils

Landslides

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site is not located within an area identified as being susceptible to earthquake-induced landslides on maps prepared by the state (CGS 2022). There are no known landslides near the Project site. The property is generally flat and is surrounded on all sides by generally flat and developed land. As such, landslides are unlikely to occur on the Project site and the Project is not expected to increase or exacerbate the potential for landslides to occur. As such, the Project would not expose people or structures to adverse risks associated with landslides.

Soil Erosion

As discussed in the Initial Study, included in Appendix A of this EIR, in an urbanized setting, substantial erosion or loss of topsoil typically occurs when ground disturbance causes soils to be exposed, and the soils are washed away during a storm or wind event. Surface structures, such as paved roads and buildings, decrease the potential for erosion. Once covered, soil is no longer exposed to wind or water erosion.

The Project would cause ground disturbance during construction activities, which can lead to erosion, particularly during a rain event or wind event. However, the construction contractor would be required to comply with the Construction General Permit. The Construction General Permit requires preparation and compliance with a SWPPP, which must include erosion control measures such as covering exposed soil stockpiles and working slopes, lining the perimeter of the construction site with sediment barriers, and protecting storm drain inlets. Preparation and implementation of the required SWPPP would reduce construction-related erosion to the extent practicable. During operation, the Project site would be covered with buildings, hardscape, and landscaping, which would preclude erosion during operation. Impacts would be less than significant.

Septic Tanks

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site is served by the existing municipal sewer system. The City has established utility services, and no septic systems are either proposed or required to serve the Project. Therefore, no impacts would occur.

4.2.6 Hazards and Hazardous Materials

Airports

As discussed in the Initial Study, included in Appendix A of this EIR, the nearest public airports to the Project site are the Compton/Woodley Airport and the Hawthorne Municipal Airport, located approximately 3.1 miles northeast and 3.7 miles northwest of the Project site, respectively. The Los Angeles International Airport is also located approximately 6.5 miles northwest of the Project site. According to the Los Angeles County Airport Land Use Commission, the Project site is located outside of the airport land use plan (Los Angeles County Airport Land Use Commission 2014). As such, the Project site is not within 2 miles of a public airport, and the Project site is not located within an airport land use plan. Therefore, the Project would not create an airplane safety hazard for people residing or working in the Project area. No impact would occur.

Emergency Response Plans

As discussed in the Initial Study, included in Appendix A of this EIR, the City has developed an Emergency Operations Plan (EOP) to facilitate emergency management. The EOP addresses the planned response to extraordinary emergency situations associated with natural disasters, technological incidents and national security emergencies. It establishes emergency organizations, assigns tasks, specifies policies and procedures and is designed to include the City in the California Standardized Emergency Management System (SEMS) (City of Gardena 2006a). The City's police department also administers the Gardena Community Emergency Response Training (CERT) program, which trains residents to assist safety personnel and City staff in the event of a major disaster (Gardena Police Department 2022).

The construction and operation of the Project is not anticipated to interfere with emergency preparedness initiatives or with responses to an emergency. Furthermore, the Project's design and operations would be required to adhere to applicable aspects of the EOP. As such, the Project would not obstruct or interfere with implementation of the City's EOP. Rather, the plans would proceed in a similar manner with or without the Project.

The City's disaster route map identifies Artesia Boulevard as a disaster route (LADPW 2008). However, the Project does not include improvements to Artesia Boulevard and any construction impacts to Artesia Boulevard from Project construction would be temporary in nature and would be controlled via standard construction best management practices, which include construction traffic control measures. As such, Project construction is not expected to impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.

During operations, the Project would increase the number of people present on the Project site relative to existing conditions. The Project would therefore result in an incremental increase in the number of people who would need to evacuate and/or receive emergency services, particularly during business hours. However, the employment growth associated with the Project would fall well within projections for the City, is not substantial, and has been accounted for in local and regional planning efforts. During City-sponsored special events, people would be located on the Project site; however, all activities would occur outside. As such, the additional employees associated with the

Project would not substantially alter the proceedings of the City's emergency response plan or evacuation plan.

Furthermore, the Project would not introduce any physical obstructions or impairments to emergency response or evacuation. The Los Angeles County Fire Department would review the Project plans to ensure adequate emergency access in and around the site as part of the building plan check process. The plans would be adjusted in the event that the fire department identifies any deficiencies in access that could preclude emergency evacuation or emergency response. In the event of a disaster during Project construction or operation, the City's emergency plans would proceed in a similar fashion with or without the Project. Impacts would be less than significant.

Wildland Fires

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site is not within a Very High Fire Hazard Severity Zone (VHFHSZ). At its closest point, the nearest VHFHSZ is located approximately 6 miles southwest of the Project site within the cities of Palos Verdes Estates and Rolling Hills Estates (CAL FIRE 2022a). As such, the Project site is not within a VHFHSZ and is separated from the VHFHSZ by freeways, major roadways and miles of urban and suburban development. In the unlikely event of a fire emergency at the Project site due to wildland fires, the Los Angeles County Fire Department (specifically Fire Station No. 158, located 0.8 miles north of the Project site), would provide fire protection services. Due to the urbanized nature of the area and the provision of nearby firefighting protection services, implementation of the Project is not anticipated to expose people or structures to a significant risk of loss, injury, or death involving wildland fires. Impacts would be less than significant.

4.2.7 Hydrology and Water Quality

Surface Water Quality

As discussed in the Initial Study, included in Appendix A of this EIR, short-term construction activities for the Project would have some potential to affect the quality of stormwater discharged from the Project site. Land disturbance activities could result in erosion and sedimentation (particularly during a rain event). Because on-site soils have the potential to be contaminated, soils that are carried off site during a storm could introduce pollutants to the runoff. Spills or leaks of petroleum products used by construction equipment could also affect the quality of stormwater. Such discharges would have the potential to violate water quality standards or waste discharge requirements, resulting in a potentially significant impact. However, the construction contractor would be required to comply with a number of regulatory requirements that would minimize the potential for water pollutants to exit the construction disturbance areas. One such requirement is the Construction General Permit, which requires preparation and compliance with a SWPPP. The SWPPP must include erosion control measures such as covering exposed soil stockpiles and working slopes, lining the perimeter of the construction site with sediment barriers, and protecting storm drain inlets. Additionally, the construction contractor would be required to implement a Soil Management Plan that has been reviewed and approved by the California Department of Toxic Substances Control (DTSC). This plan would include measures that would prevent soils from leaving the Project site as part of stormwater runoff. In addition to implementation of the SWPPP and the Soil Management Plan, standard site

management practices and typical equipment maintenance would generally preclude leaks and spills of a magnitude that would adversely affect stormwater runoff. As such, potential water contaminants would be confined to the construction disturbance areas to the extent practicable, thereby minimizing potential adverse effects to surface water quality.

The majority of the Project site is currently paved or covered with a geosynthetic material. However, after construction, the Project site would be covered with buildings, hardscape, and landscape, and the percentage of the Project site that is impervious would increase. Increased imperviousness has the potential to increase stormwater runoff volumes. The majority of the Project site is currently vacant and fenced off from access. Stormwater runoff from urban development also has the potential to carry pollutants associated with the development, such as trash, spilled or leaked chemicals (e.g., cleaning products) and gasoline leaks from vehicles. As such, development of the Project site has the potential to increase runoff volumes and/or runoff pollutants, such that water quality standards could be violated, resulting in a potentially significant impact. The City is a co-permittee under the "Waste Discharge Requirements for Municipal Storm Water and Urban Runoff Discharges within the County of Los Angeles" issued by the Los Angeles Regional Water Quality Control Board, which also serves as the Federal Clean Water Act National Pollutant Discharge Elimination System (NPDES) Permit and the Waste Discharge Requirements (WDRs) under the California Municipal NPDES Permit. As a new development, design and operation of the Project would be subject to the requirements of the City's Storm Water Management and Discharge Control Ordinance, including Low Impact Development (LID) structural and nonstructural Best Management Practices (BMPs) and source control BMPs. Impacts would be less than significant.

Erosion and Siltation

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site does not contain any streams or rivers. As such, no streams or rivers would be altered by the Project. However, ground disturbance during construction would have the potential to result in erosion or siltation on or off site, as exposed soils could enter stormwater runoff, resulting in erosion and/or siltation in the Dominguez Channel, or could be eroded in a wind event. However, construction activities would be required to comply with a SWPPP and a Soil Management Plan. Implementation of these required plans would protect exposed soils from erosion during construction. During operations, the amount of impervious surfaces and urban land uses on the Project site would increase. As such, the rate and volume of urban stormwater runoff, which is directed to the Dominguez Channel, could increase from the site. However, the design and operation of the Project would be required to adhere to LID standards, ensuring that the volume and rate of stormwater runoff from the Project site would be minimized to the extent feasible. As such, the Project would not have the potential to result in substantial erosion or siltation on or off site. Impacts would be less than significant.

Surface Runoff

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site does not contain any streams or rivers. As such, no streams or rivers would be altered by the Project. Project construction would be required to comply with a SWPPP. Implementation of the SWPPP would control runoff from the site during construction and would minimize the potential for flooding to occur on or off site. During operations, the amount of impervious surfaces on the Project site would increase. As such, the rate and volume of urban stormwater runoff could increase from the Project site, which

could lead to flooding on or off site. However, the design and operation of the Project would be required to adhere to LID standards, ensuring that the rate and volume of runoff from the Project site would be minimized to the extent feasible. Implementation of LID features would reduce the potential for the Project to cause flooding. Through compliance with the stormwater management requirements described above, the Project would not result in substantial flooding on or off site. Impacts would be less than significant.

Flood Flows

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site does not contain any streams or rivers having the potential to be altered by the Project. The Project site is located within a highly urban area and is located outside of the 100-year and 500-year flood hazard zones (DWR 2022). As such, the Project would not impede or redirect flood flows. Therefore, no impacts associated with impeding or redirecting flood flows would occur.

4.2.8 Land Use and Planning

Community Division

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site is bound by an existing, major roadway (Artesia Boulevard) to the north, a rail line and major roadway (Normandie Avenue) to the east and the Dominguez Channel to the south. A large portion of the Project site is vacant and fenced off from access. The Project site contains one residential property along the southern side, adjacent to the Dominguez Channel, which is currently accessible only by an unnamed alleyway running along the western edge of the Project site. Under existing conditions, this residence is highly isolated due to its location. The Project would not further isolate this residence should it remain after construction of the Project. As such, this property does not represent physical connections within an established community. Furthermore, the Project does not include features such as a new highway, new aboveground infrastructure, or an easement through an established neighborhood, which are features that may result in physical divisions within a community. For these reasons, the Project's impacts would be less than significant.

4.2.9 Mineral Resources

Known Mineral Resources of Value

As discussed in the Initial Study, included in Appendix A of this EIR, the Division of Mines and Geology (renamed the California Geological Survey in 2006) has mapped the Project site as Mineral Resources Zone 1 for aggregate resources. Mineral Resource Zone 1 is a designation given to areas where adequate information indicates that no significant mineral deposits are present, or where it is judged that little likelihood exists for their presence (California Department of Conservation 2024). The State Division of Mines and Geology has not designated any land within the City as state classified mineral resource deposit areas and no areas are designated for mineral extraction in the City's General Plan (City of Gardena 2006b).

According to the California Geologic Energy Management Division (CalGEM), there are no oil, gas, geothermal, or other known wells located on the Project site and the Project site is not within a known oil or gas field. The nearest well is an idle well approximately 0.1 miles southeast of the Project site across the Dominguez Channel (CalGEM 2022). As such, development of the Project would not interfere with any existing or previous oil drilling activities within the Project site. Furthermore, the Project site is located adjacent to residential and commercial uses. Due to these surrounding land uses, future development of oil drilling at the Project site is not expected to be practicable. As such, the Project site does not currently support mineral extraction activities, nor would it be expected to support such activities in the future. As such, no impact would occur.

Locally Important Mineral Resources

As discussed in the Initial Study, included in Appendix A of this EIR, there are no areas are designated for mineral extraction in the City's General Plan (City of Gardena 2006b). As such, the City has not delineated a specific mineral resource recovery site on the Project site, and the Project would not result in the loss of availability of a locally important mineral resource recovery site. No impact would occur.

4.2.10 Noise

Airport Noise

As discussed in the Initial Study, included in Appendix A of this EIR, the nearest public airports to the Project site are the Compton/Woodley Airport and the Hawthorne Municipal Airport, located approximately 3.1 miles northeast and 3.7 miles northwest of the Project site, respectively. The Los Angeles International Airport is also located approximately 6.5 miles northwest of the Project site. According to the Los Angeles County Airport Land Use Commission, the Project site is located outside of the airport land use plan (Los Angeles County Airport Land Use Commission 2014). As such, the Project site is not located within 2 miles of a public airport or within an airport land use plan. Additionally, the Project site is not located within the vicinity of a private airstrip. Therefore, the Project would not expose people residing or working in the Project area to excessive noise levels related to aircraft use. No impact would occur.

4.2.11 Population and Housing

Unplanned Population Growth

As discussed in the Initial Study, included in Appendix A of this EIR, the Project would not involve development of residences and would not, therefore, have the potential to result in direct population growth by expanding the residential population of the City. Additionally, the Project would not develop new infrastructure, such as the extension of roads or utility services, that could encourage or facilitate population growth. Rather, the Project would involve developing a single structure and associated parking for industrial/distribution, office/retail and self-storage uses. As such, the Project would lead to an increase in employment opportunities within the City. Based on the square footage of different uses that would be developed, the Project site is expected to support approximately 40 employees.

The Demographics and Growth Forecast technical report in SCAG's 2020–2045 RTP/SCS shows population, housing, and employment growth projections for the City. According to this report, the City had 29,300 jobs in 2016 and is expected to accommodate 32,100 jobs by 2045 (SCAG 2020), an increase of approximately 2,800 jobs. The Project is expected to be operational around October 2025. Assuming that the City keeps pace with SCAG's growth projections and that growth is evenly divided across the planning horizon (approximately 96.5 jobs per year), the City is expected to experience an increase of approximately 193 jobs between 2023 and the time of Project buildout (2025). The employment provided by the Project upon Project buildout would fall within these projections. Assuming that the Project would accommodate new businesses in the City (as opposed to businesses that relocate from elsewhere in the City), the Project is expected to create approximately 40 new jobs in the City. This growth equates to approximately 1.4% of the total employment growth that is projected to occur between 2020 and 2045 and approximately 21% of the growth that is expected to occur between 2023 and the Project's anticipated buildout year (2025). As such, employment growth associated with the Project would fall within the previous and current growth projections for the City. This indicates that the Project would not outpace regional infrastructure, since the SCAG RTP/SCS is used for local and regional planning purposes.

Project construction would also temporarily increase employment in the City. However, given the relatively common nature of the proposed construction activities, the demand for construction employment would likely be met within the existing and future labor market in the City and in the surrounding metropolitan area. If construction workers live outside of the City, these workers would likely commute during the temporary construction period.

Because the Project would be located in a developed area within Los Angeles County that has close access to major freeways, it is anticipated that jobs created by the Project would be filled by existing City residents or by residents of neighboring cities. In the event that some of the new employees relocate to the City upon obtaining a job at the Project site, this would result in minor to negligible population growth. Even in the unlikely event that all new employees moved to the City along with an average-sized household, the resulting residential population growth would fall well within population growth projections for the City. The average household size in the City is 2.9 people per household (SCAG 2020). As such, one household each for 40 employees would equate to a total population growth of 116 people. According to SCAG's 2020–2045 RTP/SCS, the City had a population of 60,600 people in 2016 and will grow to 65,700 in 2045, an increase of 5,100 people (SCAG 2020). As such, in the unlikely event that all Project employees and their households relocated to the City, the resulting population growth of 116 people would fall well within population growth projections for the City.

In conclusion, the Project would result in employment growth within the City. However, this employment growth would fall within job growth projections for the City and would not be expected to lead to substantial population growth. For these reasons, impacts would be less than significant.

Displacement of Substantial Numbers of People or Housing

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site currently contains one residential property. The Initial Study states that no households would be displaced because at the time that the Initial Study was completed, the one occupied residence was to remain upon adoption of the Specific Plan as a legal non-conforming use. The residential property has since been

identified for demolition and included as part of the Project. As such, the Project would displace one household. However, this would not constitute a substantial displacement.

The City recently adopted its 6th Cycle Housing Element, which has been approved by the California Department of Housing and Community Development. Additionally, the City has undertaken a Land Use Update and Rezoning Program, which increased new housing development opportunities within the City in accordance with the Housing Element and will address the City's housing needs as identified by SCAG's Regional Housing Needs Assessment (RHNA). For these reasons, impacts would be less than significant.

4.2.12 Public Services

Fire Protection

As discussed in the Initial Study, included in Appendix A of this EIR, fire protection, rescue services, and emergency medical (paramedic) services in the City are provided by the Los Angeles County Fire Department (LACoFD). The closest fire station to the Project site is Fire Station No. 158, located 0.8 miles north of the Project site. The Project would not include housing that would result in a direct increase in the City's population to be served by LACoFD. However, the Project would result in the net increase of approximately 255,936 square feet of commercial space on a largely vacant site. As such, Project implementation would increase the building area and use of the Project site when compared to existing conditions, thereby increasing the demand for LACoFD services.

The proposed commercial uses would be expected to generate a range of fire service calls similar to what occurs under existing conditions in the vicinity of the Project site. The Project would not include any unique hazardous uses, such as industrial facilities, that use or generate large quantities of hazardous and/or toxic materials that could pose an extreme risk of serious accident or fire at the Project site. The types of fires that could potentially occur within the Project site would be adequately suppressed with the fire equipment found at the fire stations nearest the Project site. Additionally, the Project would be required to comply with the California Fire Code, Universal Building Code, and LACoFD standards, including specific construction specifications, access design, location of fire hydrants, and other design requirements. Compliance with applicable regulatory requirements, including LACoFD's fire/life safety plan review and demonstrating that adequate fire flow exists, per approval by the Public Works Department, would ensure that adequate fire prevention features would be incorporated into the Project that would reduce the demand on LACoFD facilities and equipment resulting from Project construction and operation.

Therefore, the Project would not require the addition of a new fire station or new fire protection services, the construction and/or expansion of which could result in environmental impacts. Operation of the Project would not result in substantial adverse physical impacts associated with the provision of new or expanded fire services in order to maintain acceptable fire protection services at the Project site. Impacts would be less than significant.

Police Protection

As discussed in the Initial Study, included in Appendix A of this EIR, police protection services in the City are provided by the Gardena Police Department (GPD). Protection services include emergency

and non-emergency police response, route police patrols, investigative services, traffic enforcement, traffic investigation, and parking code enforcement. The police station is located at 1718 West 162nd Street, approximately 0.75 miles north of the Project site.

The Project would not include housing that would result in a direct increase in the City's population to be served by GPD. However, a portion of the Project site is currently undeveloped and periodically occupied by non-confirming and/or illegal uses that result in a notable amount of calls for GPD services. Since 2016, there have been 20 code enforcement cases opened, with several listed violations, for the Project site, including a hazardous conditions case that ended in red tagging the building. While the Project would result in an intensified use of the Project site, the Project would incorporate security features to reduce the demand for police protection services. These features would include sufficient lighting throughout the Project site to ensure safety and visibility with illuminated entryways, walkways and closed-circuit television monitoring.

Overall, the intended uses of the Project site upon buildout (i.e., self-storage, commercial/office and warehouse uses, outdoor periodic City-sponsored events) are uses that would not generate high demand for or notably increase service calls for police protection. Therefore, the Project would not require the addition of a new police station or new police protection services, the construction and/or expansion of which could result in environmental impacts. Impacts would be less than significant.

Schools

As discussed in the Initial Study, included in Appendix A of this EIR, the City is served by the Los Angeles Unified School District (LAUSD). The need for new school facilities is typically associated with a population increase that generates an increase in enrollment large enough to cause schools to be constructed or existing schools to be expanded. The Project does not include a residential component and is not expected to substantially increase the residential population of the City. Nonetheless, as required by Senate Bill 50, the Project Applicant would be required to pay development fees for schools to LAUSD prior to the issuance of a building permit. Pursuant to Government Code Section 65995, the payment of school development fees is considered mitigation for any potential school service-related impacts. As such, the Project is not expected to cause increases in demand for school facilities such that new or expanded facilities would be needed. Impacts would be less than significant.

Parks

As discussed in the Initial Study, included in Appendix A of this EIR, physical deterioration of park facilities is usually caused by overuse due to a lack of additional/alternative facilities to accommodate population growth. The Project would not include the construction of any infrastructure or housing that would directly or indirectly induce significant population growth. While employees at the Project site could use nearby parks, including Arthur Lee Johnson Memorial Park and Gardena Willows Wetland Preserve, located approximately 0.25 miles northeast of the Project site, they would be expected to primarily use parks near to their place of residence. As such, development of the Project is not expected to result in increased demands to park facilities such that new or expanded facilities would be required. Impacts would be less than significant.

Other Public Facilities

As discussed in the Initial Study, included in Appendix A of this EIR, other public facilities and services provided within the City include library services and City administrative services. Library services are provided at the Mayme Dear Library, which is approximately 0.75 miles north of the Project site. Increased use of library services is generally associated with an increase in residents. While the employees of the Project could use the local library services, employees are generally expected to primarily use libraries near their place of residence. City administrative services are provided at Gardena City Hall, which is also located approximately 0.75 miles north of the Project site. Similar to library services, employees are expected to use City administrative services near their place of residence. As such, development of the Project is not expected to result in increased demands to other public facilities (such as library services or City administrative services) such that new or expanded facilities would be required. Impacts would be less than significant.

4.2.13 Recreation

Park Deterioration

As discussed in the Initial Study, included in Appendix A of this EIR, physical deterioration of park facilities is usually caused by overuse due to a lack of additional/alternative facilities to accommodate population growth. The Project would not include the construction of any infrastructure or housing that would directly or indirectly induce significant population growth in the surrounding area. While employees at the Project site could use nearby parks and recreational areas, including Arthur Lee Johnson Memorial Park and Gardena Willows Wetland Preserve, located approximately 0.25 miles northeast of the Project site, they would be expected to primarily use parks near to their place of residence. As such, development of the Project would not result in substantial deterioration of existing parks or recreational facilities, and impacts would be less than significant.

Recreational Facilities

As discussed in the Initial Study, included in Appendix A of this EIR, the Project does not include recreational facilities and would not induce population growth that could increase demand for recreational facilities such that recreational facilities would need to be constructed or expanded. The Project would have no impact related to construction or expansion of recreational facilities.

4.2.14 Transportation

Emergency Access

As discussed in the Initial Study, included in Appendix A of this EIR, the City has developed an EOP to facilitate emergency management. The EOP addresses the planned response to extraordinary emergency situations associated with natural disasters, technological incidents and national security emergencies. It establishes emergency organizations, assigns tasks, specifies policies and procedures and is designed to include the City in the California Standardized Emergency Management System (SEMS) (City of Garden 2006a). The City's police department also administers

the CERT program, which trains residents to assist safety personnel and City staff in the event of a major disaster (Gardena Police Department 2022).

The construction and operation of the Project is not anticipated to interfere with emergency preparedness initiatives or with responses to an emergency. Furthermore, the Project's design and operations would be required to adhere to applicable aspects of the EOP. As such, the Project would not obstruct or interfere with implementation of the City's EOP. Rather, the plans would proceed in a similar manner with or without the Project.

The City's disaster route map identifies Artesia Boulevard as a disaster route (LADPW 2008). However, the Project does not include improvements to Artesia Boulevard and any construction impacts to Artesia Boulevard from Project construction would be temporary in nature and would be controlled via standard construction best management practices, which include construction traffic control measures. As such, Project construction is not expected to impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.

During operations, the Project would increase the number of people present on the Project site relative to existing conditions. The Project would therefore result in an incremental increase in the number of people who would need to evacuate and/or receive emergency services, particularly during business hours. However, the employment growth associated with the Project would fall well within projections for the City, is not substantial, and has been accounted for in local and regional planning efforts. As such, the additional employees associated with the Project would not substantially alter the proceedings of the City's emergency response plan or evacuation plan.

Furthermore, the Project would not introduce any physical obstructions or impairments to emergency response or evacuation. The Los Angeles County Fire Department would review the Project plans to ensure adequate emergency access in and around the Project site as part of the building plan check process. The plans would be adjusted in the event that the fire department identifies any deficiencies in access that could preclude emergency evacuation or emergency response. In the event of a disaster during Project construction or operation, the City's emergency plans would proceed in a similar fashion with or without the Project. Impacts would be less than significant.

4.2.15 Wildfire

As discussed in the Initial Study, included in Appendix A of this EIR, the Project site is not located within a state responsibility area and there are no state responsibility areas in the vicinity of the Project site. The nearest state responsibility areas are located approximately 20 miles northeast of the Project site, in the Puente Hills (CAL FIRE 2022b). The Project site is also not within a VHFHSZ. At its closest point, the nearest VHFHSZ is located approximately 6 miles southwest of the Project site within the cities of Palos Verdes Estates and Rolling Hills Estates (CAL FIRE 2022a). Therefore, no impact would occur.

4.3 Significant and Unavoidable Environmental Impacts

Pursuant to CEQA Guidelines Section 15126.2(b), an EIR must address any significant environmental impacts, including those that can be mitigated but not reduced to less-than-significant levels, as a

result of implementation of a project. As described in detail throughout Chapter 3, Environmental Analysis, of this Draft EIR, for the most part the Project would not result in impacts to the environment that cannot be reduced to below a level of significance after the consideration of Project design features, compliance with applicable federal, state and local regulations, and the application of the feasible mitigation measures identified in this Draft EIR. However, as discussed in Section 3.9, Noise, even with implementation of mitigation measures, construction noise impacts would remain significant and unavoidable.

4.4 Significant Irreversible Changes

The CEQA Guidelines require that an EIR address any significant irreversible changes that would be caused by implementation of a project. According to CEQA Guidelines Section 15126.2(c), such a change would involve one or more of the scenarios discussed in Sections 4.4.1 through 4.4.4.

4.4.1 Change in Land Use That Commits Future Generations to Similar Uses

The Project site is currently developed with several small businesses housed in warehouses or trailers, along with one residential unit. The undeveloped eastern portion of the Project site is an area known as the Gardena Sumps, which is contaminated with oil sludge. The City recently amended the Land Use and Zoning for hundreds of properties in the City in compliance with adoption of the 6th Cycle Housing Element. The Project site has retained its Specific Plan land use designation, and the zoning has been changed to 1450 Artesia Specific Plan. Implementation of the Project would commit the Project site to a mixed-use development with a total building area of 268,000 square feet, including self-storage, warehouse and office/retail uses under the 1450 Artesia Specific Plan. However, because the Project is a redevelopment project within a fully developed and urbanized portion of the City, it would not commit future generations to new urban land uses. The replacement of underutilized buildings and surface parking following remediation of site contamination (not part of the proposed Project) would result in changes to the current land uses in a manner that is consistent with the City's General Plan goals and policies (see Section 3.8, Land Use and Planning).

4.4.2 Significant Irreversible Environmental Effects

The Project site is developed with several small businesses housed in warehouses or trailers, along with one residential unit. Implementation of the Project would commit the Project site to a 268,000-square-foot mixed use Project. The land use proposed by the Project is compatible with the existing land uses that are located west, north, and east of the Project site and along Artesia Boulevard. The Project would not result in unavoidable physical impacts to the environment. Accordingly, the Project and its environmental effects would not compel or commit surrounding properties to land uses other than those that are existing today or those that are planned by the City of Gardena General Plan. For this reason, the Project would not result in significant, irreversible effects to nearby, off-site properties.

4.4.3 Irreversible Damage from Environmental Accidents

As discussed in detail in Section 3.6, Hazards and Hazardous Materials, of this EIR, prior to development of the Project, the eastern portion of the Project site (known as the Gardena Sumps) will be remediated by the Atlantic Richfield Company (ARC) through a Remedial Action Plan (RAP) under the direction of the DTSC. The RAP includes installing an engineered cap, soil vapor probes, and associated infrastructure before the Applicant commences construction of the proposed Project. The Project Applicant will undertake measures to protect this remedy and avoid any unreasonable risk of harm to human health and the environment, such as installing soil vapor barrier and ventilation systems beneath the structure to protect building occupants against indoor soil vapor intrusion; recording a land use covenant on the site to prohibit sensitive uses thereon, such as residential uses, but which would permit the Project's commercial and industrial uses; complying with all institutional controls that DTSC may require; and undertaking long-term monitoring and maintenance of the soil vapor barrier and ventilation systems for the Project's building. The Project structure would only overlap with the remediated Haack Rework area. The portion of the Project site that overlaps the Haack and Cooper sumps areas would be paved and utilized as a parking lot, which would be located atop ARC's engineered cap as part of the DTSC-approved RAP. While there is still a chance that an accident related to the area covered under the RAP could occur, implementation of the RAP and protection of the remedy throughout operation of the Project would minimize the potential and severity of such accidents and prevent any irreversible damage to the environment.

Aside from the contamination within the Gardena Sumps area, potential environmental accidents of concern include those events that would adversely affect the environment or the public due to the type or quantity of materials released and the receptors exposed to that release. Demolition and construction activities associated with the Project would involve some risk of environmental accidents. However, these activities would be conducted in accordance with all applicable federal, state, and local regulations, and would follow professional industry standards for safety. Once operational, use, transport, and storage of any materials that could cause environmental accidents would comply with applicable federal, state, and local regulations, ensuing that any hazardous materials used on site would be safely and appropriately handled to preclude any irreversible damage to the environment that could result if hazardous materials were released from the Project site.

4.4.4 Large Commitment of Nonrenewable Resources

Commitment of nonrenewable resources includes issues related to increased energy consumption, loss of agricultural lands, and lost access to mining reserves. There would be an irretrievable commitment of labor, capital, and materials used during construction and operation of the Project. Nonrenewable resources committed would primarily be in the form of fossil fuels such as fuel, oil, natural gas, and gasoline used by equipment associated with construction of the Project. Consumption of other non-renewable or slowly renewable resources would also occur. These resources would include lumber and other forest products, sand and gravel, asphalt, and metals such as steel, copper, and lead.

To ensure that energy implications are considered in Project decisions, CEQA requires that EIRs include a discussion of the potential energy impacts of proposed projects, with particular emphasis on avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy (California Public Resources

Code Section 21100[b][3]). Energy conservation implies that a project's cost effectiveness be reviewed not only in dollars but also in terms of energy requirements. For many projects, cost effectiveness may be determined more by energy efficiency than by initial dollar costs. A lead agency may consider the extent to which an energy source serving the project has already undergone environmental review that adequately analyzed and mitigated the effects of energy production.

Consistent with both California Public Resources Code Section 21100(b)(3) and a ruling set forth by the court in California Clean Energy Committee v. City of Woodland, potentially significant energy implications of a project must be considered in an EIR to the extent relevant and applicable to the project. Accordingly, based on the energy consumption thresholds set forth in Appendix F and Appendix G of the CEQA Guidelines, the Project's estimated energy demands (both short-term construction and long-term operational demands) were evaluated (see Section 3.3, Energy, of this EIR). The overall purpose of the energy analysis was to evaluate whether the Project would result in the wasteful, inefficient, or unnecessary consumption of energy.

As further assessed in the energy analysis, for new development such as that proposed by the Project, compliance with California Title 24 energy efficiency requirements is considered demonstrable evidence of efficient use of energy. The Project would provide for and promote energy efficiencies beyond those required under other applicable federal and state standards and regulations, and in so doing would meet or exceed all Title 24 standards.

4.5 Growth-Inducing Impacts

Section 15126.2(d) of the CEQA Guidelines requires that an EIR evaluate the growth-inducing impacts of a proposed project, as follows:

> Discuss the ways in which the proposed project could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment. Included in this are projects that would remove obstacles to population growth (a major expansion of a wastewater treatment plant might, for example, allow for more construction in service areas). Increases in the population may tax existing community service facilities, requiring construction of new facilities that could cause significant environmental effects. Also, discuss the characteristics of some projects which may encourage and facilitate other activities that could significantly affect the environment, either individually or cumulatively. It must not be assumed that growth in any area is necessarily beneficial, detrimental, or of little significance to the environment.

Growth-inducing impacts can occur when implementation of a development project imposes new burdens on a community by directly inducing population growth or by leading to the construction of additional development in the project area. Also included in this category are projects that would remove physical obstacles to population growth, such as the construction of a new roadway into an undeveloped area or a wastewater treatment plant with excess capacity to serve additional new development. Construction of these types of infrastructure projects cannot be considered isolated from the immediate development that they facilitate and serve. Projects that physically remove obstacles to growth, or projects that indirectly induce growth, are those that may provide a catalyst

for future unrelated development in the area (such as a new residential community that requires additional commercial uses to support residents). The growth-inducing potential of a project can also be considered significant if it fosters growth in excess of what is assumed in local master plans and land use plans or in projections made by regional planning agencies.

The proposed Project would require a temporary construction workforce and a permanent operational workforce, both of which could potentially induce population growth in the Project area. The number of construction workers needed during any given period would largely depend on the specific stage of construction. These short-term positions are anticipated to be filled primarily by construction workers who reside in the Project site's vicinity; therefore, construction of the Project would not generate a permanent increase in population within the Project area.

During normal operations, there would be approximately 40 employees. According to the SCAG Demographics & Growth Forecast (an appendix to the 2020–2045 RTP/SCS), employment in the City is anticipated to expected to accommodate 32,100 jobs by 2045 (SCAG 2020), an increase of approximately 2,800 jobs. It is anticipated that the Project's temporary and permanent employment requirements could be met by the local existing labor force without people needing to relocate into the Project region and the Project would therefore not stimulate population growth or a population concentration above what is assumed in local and regional land use plans. Even assuming all employees would not be local, a Project-related increase of approximately 40 employees would be minimal in comparison to the increase anticipated in the SCAG Demographics & Growth Forecast.

Growth-inducing impacts can also occur when implementation of a project includes infrastructure improvements that would remove physical obstacles to population growth. Projects that physically remove obstacles to growth, or projects that indirectly induce growth, are those that may provide a catalyst for future unrelated development in the area. The Project is currently served by existing infrastructure, including water, wastewater, stormwater drainage, gas, electric, and telecommunication lines. As part of the Project, some of these lines would be extended or upsized within the Project site; however, these activities would be undertaken solely for purposes of supporting the Project. Further, as discussed in Section 3.12, Utilities and Service Systems, given the lack of population growth that would result from the Project and the fact that the Project site and surrounding area are already served by existing facilities, the Project would not tax existing community service facilities or require construction of substantial new facilities.

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5 Alternatives

5.1 Alternatives to the Proposed Project

In accordance with California Environmental Quality Act (CEQA) Section 15126.6, this chapter of the Draft Environmental Impact Report (EIR) contains a comparative evaluation of the 1450 Artesia Specific Plan Project (Project) with alternatives to the Project, including a No Project Alternative. Consistent with CEQA Guidelines Section 15126.6, this chapter focuses on alternatives to the proposed Project that are capable of avoiding or substantially reducing any significant adverse impacts associated with the Project, even if the alternatives may impede attainment of Project objectives or prove less cost efficient. In addition, implementation of a Project alternative may potentially result in new impacts that would not have resulted from the Project.

The CEQA Guidelines (14 CCR Section 15000 et seq.) require that the analysis of alternatives provide sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with a proposed project. Specifically, CEQA Guidelines Section 15126.6(a) outlines the scope of alternatives to a proposed project that must be evaluated:

> An EIR shall describe a range of reasonable alternatives to the project, or to the location of the project, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and evaluate the comparative merits of the alternatives. An EIR need not consider every conceivable alternative to a project. Rather it must consider a reasonable range of potentially feasible alternatives that will foster informed decision making and public participation. An EIR is not required to consider alternatives which are infeasible. The lead agency is responsible for selection of a range of project alternatives for examination and must publicly disclose its reasoning for selecting those alternatives. There is no ironclad rule governing the nature or scope of the alternatives to be discussed other than the rule of reason.

Under case law and CEQA Guidelines Section 15126.6(f), the discussion of alternatives is subject to a rule of reason and need not be exhaustive. CEQA Guidelines Section 15126.6(d) states that "if an alternative would cause one or more significant effects in addition to those that would be caused by the project as proposed, the significant effects of the alternatives shall be discussed, but in less detail than the significant effects of the project as proposed." Determining factors that may be used to eliminate alternatives from detailed consideration in an EIR are (a) failure to meet most of the basic project objectives, (b) infeasibility, or (c) inability to avoid significant environmental impacts. CEQA Guidelines Section 15364 defines "feasibility" as "capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social, and technological factors."

An EIR need not consider a project alternative whose effects cannot be reasonably ascertained, whose implementation is remote and speculative, or whose execution does not substantially lessen or avoid the significant effects of a proposed project.

As discussed throughout Chapter 3, Environmental Analysis, of this Draft EIR, the proposed Project would result in significant and unavoidable impacts related to construction noise. For all other environmental issue areas, the Project would result in either less-than-significant impacts or no impact.

5.2 Alternatives Considered But Rejected

An EIR is required to identify any alternatives that were considered by the lead agency but were rejected as infeasible. Among the factors described by CEQA Guidelines Section 15126.6 in determining whether to exclude alternatives from detailed consideration in an EIR are failure to meet most of the basic objectives of the project, infeasibility, or inability to avoid significant environmental impacts.

With respect to the feasibility of potential alternatives to a proposed project, CEQA Guidelines Section 15126.6(t)(l) states the following:

> Among the factors that may be taken into account when addressing the feasibility of alternatives are site suitability, economic viability, availability of infrastructure, general plan consistency, other plans or regulatory limitations, jurisdictional boundaries … and whether the proponent can reasonably acquire, control or otherwise have access to the alternative site.

In determining an appropriate range of project alternatives to be evaluated in this Draft EIR, several possible alternatives were initially considered and then rejected. Project alternatives were rejected because they could not accomplish the basic objectives of the Project, they would not have resulted in a reduction of significant adverse environmental impacts, or they were considered infeasible to construct or operate.

The Project involves the requested approval of the 1450 Artesia Specific Plan as well as construction and operation of a mixed-use development with a total building area of 268,000 SF and an approximate height of 75 feet. The development would include a self-storage use (three levels totaling 186,000 GSF with 1,480 storage units over the bottom floor warehouse/distribution use and leasing office), an industrial warehouse/distribution use (one level totaling 72,000 GSF with 10 loading docks), an office/retail use (a mezzanine totaling 10,000 GSF), and associated surface parking. A description of each alternative and the rationale for rejection is provided below.

5.2.1 Residential Development

Years ago, the City initially explored a variety of potential types of development for the Project site, including residential development. However, as discussed in Section 3.6, Hazards and Hazardous Materials, and elsewhere throughout this EIR, the proposed Project site is contaminated and is being remediated and monitored by Atlantic Richfield Company (ARC) under the jurisdiction of the California Department of Toxic Substances (DTSC). The Final Remedial Action Plan (RAP) was approved by DTSC on June 30, 2022 (Appendix G3). The Final RAP includes provisions for long-term monitoring and maintenance by ARC of an engineering cap for a large portion of the proposed Project's parking area, soil vapor via soil vapor probes and by groundwater monitoring wells. The Final RAP also includes a provision for a legal land use covenant to limit future uses of the site to be recorded on the property, which will limit futures uses to commercial and industrial uses and bar residential and other sensitive uses.

Infeasibility. The forthcoming land use covenant for the Project site, as also stated in PDF-HAZ-1, Remedial Action of the Gardena Sumps Site, will limit future uses of the site to commercial and industrial uses and prohibit sensitive uses, such as residential developments, because the RAP will not achieve a cleanup standard that is safe for residential and other sensitive uses. Therefore, residential development will not be allowed on the Project site and would be infeasible due to legal and health and safety considerations. No further discussion of this alternative is required.

5.2.2 Avoid Significant Construction Noise Impacts

As described in Section 3.9, Noise, Project construction would exceed City noise standards at residential receptors near the Project site, in particular the residential receptor immediately (15 feet) west of the Project site, which would be significant for all construction phases except for architectural coating, even with the incorporation of all feasible mitigation. Constructing the building on the eastern side of the Project site and the parking on the western side would move many major noise-generating construction elements farther from the residential receptor to the west and create a buffer that would reduce construction noise impacts. However, the Final RAP precludes the construction of buildings on the east portion of the Project site (Cooper Sump area) due to contamination present from the past sump activities and the location of the engineered cap there over which the RAP prohibits vertical construction.

Infeasibility. The Final RAP prohibits the construction of buildings on the eastern side of the Project site (Cooper Sump area) due to the location of the former sump and the engineered cap that ARC will install in this area as such construction could damage the cap and impede access to it needed for its operation, maintenance and repair. Therefore, developing the Project building on the eastern side of the Project site is not allowed and is therefore infeasible. No further discussion of this alternative is required.

5.2.3 All-Commercial Alternative

The City considered an alternative that includes all commercial uses, including big box retail, which would be allowed under the forthcoming land use covenant for the Project site, as also stated in PDF-HAZ-1, Remedial Action of the Gardena Sumps Site, will limit future uses of the site to commercial and industrial uses. An All-Commercial Alternative could therefore be allowed on the Project site.

Infeasibility. The Project site was identified within the former Artesia Corridor Specific Plan, which was in place from July 2006 to February 2023. The Specific Plan identified commercial land uses, ideally big box retail for the Project site. A report called Retail Development Potential for the Artesia Boulevard Retail District was also completed by the City in April of 2006 (Appendix L). During the entire duration when the Specific Plan was in place, no commercial development was proposed for the Project site. Since the time of preparation of the Specific Plan, the market for retail commercial development has changed such that big box retail is less in demand and many of the retailers that were discussed in the 2006 report no longer even exist. As such, it is infeasible to implement an All-Commercial Alternative. This alternative has been rejected due to market infeasibility.

5.3 Alternatives Carried Forward for Consideration

Pursuant to Section 15126.6 of the CEQA Guidelines, the City selected a reasonable range of alternatives to the Project that would feasibly attain most of the basic objectives of the Project but could avoid or substantially lessen one or more of the effects of the Project. As discussed previously, the Project would result in significant and unavoidable environmental impacts related to construction noise. Only the No Project Alternative would avoid or reduce this impact. However, the other alternatives would reduce impacts in other resource areas. Based on the evaluation of potential alternatives that were considered but rejected in Section 5.2, four alternatives have been carried forward for further analysis in Sections 5.3.1 through 5.3.4. Pursuant to Section 15126.6(d) of the CEQA Guidelines, sufficient information about each alternative has been included in the descriptions below to allow meaningful evaluation, analysis, and comparison with the proposed Project.

In analyzing the alternatives, it is important to note that the RAP will be implemented regardless. The RAP involves demolition of the two buildings closest to Artesia Boulevard – the U-Haul building and the front warehouse, leaving in place the rear warehouse and a residential unit.

5.3.1 Alternative 1 – No Project Alternative

Section 15126.6(e) of the CEQA Guidelines requires that an EIR evaluate the specific alternative of "no project" along with its impact. As stated in this section of the CEQA Guidelines, the purpose of describing and analyzing a no project alternative is to allow decision makers to compare the impacts of approving the proposed Project with the impacts of not approving the proposed Project. As specified in Section 15126.6(e)(3)(B) of the CEQA Guidelines, the no project alternative for a development project consists of the circumstance under which a proposed project does not proceed. Section 15126.6(e)(3)(B) further states that "in certain instances, the no project alternative means 'no build' wherein the existing environmental setting is maintained." In this case, Alternative 1 assumes the proposed Project would not proceed and no new permanent development or land uses would be introduced. However, Alternative 1 assumes that remediation of the site as stipulated in the Final RAP would proceed as that document has been approved by DTSC and the remediation process would occur absent the proposed Project, which would include demolition of two existing structures. The other two existing structures would remain as nonconforming uses.

Ability to Meet Project Objectives

The No Project Alternative would not achieve the underlying purpose of the Project or meet any of the Project objectives. Because it would not develop a project and would leave the Project site as it currently exists, with the exception of implementation of the RAP, it would not redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor within the City, develop appropriate uses in an area with a legacy of contamination in a manner that protects human health and the environment and allows for continued monitoring of remediated areas, produce short-and long-term jobs during construction and operations phases, generate property tax revenues for the City to enhance its services to the community and infrastructural improvements, provide the City a substantial monetary public benefit to the City's General Fund, or provide the City with a space to host periodic community outdoor events.

Comparison of the Environmental Effects of Alternative 1 to the Proposed Project

All construction and operational impacts associated with the proposed Project would be avoided under the No Project Alternative because no Project development would occur on the Project site. While some construction impacts would occur under the RAP, those impacts were evaluated in the environmental analysis completed for RAP implementation. As such, Alternative 1 would not require implementation of MM-HAZ-1 and the No Project Alternative would reduce all environmental impacts associated with the Project and avoid the one significant and unavoidable construction noise impact.

5.3.2 Alternative 2 – Reduced Density Alternative

Alternative 2 consists of a Project with the same elements as the proposed Project but reduced in square footage and development footprint by 50%. Therefore, this Alternative assumes 93,000 square feet of self-storage uses consisting of 740 storage units, 36,000 square feet of industrial warehouse/distribution uses, and 5,000 square feet of office/mezzanine uses, which would be developed on the western half of the Project site. Operations would be proportionately less under this Alternative. Special events would remain unchanged from the proposed Project under Alternative 2.

Ability to Meet Project Objectives

Because the Project elements included in Alternative 2 are the same as the proposed Project, Alternative 2 would meet all of the Project objectives but not to the same degree as the proposed Project. It would redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor within the City, develop appropriate uses in an area with a legacy of contamination in a manner that protects human health and the environment and allows for continued monitoring of remediated areas, produce short-and long-term jobs during construction and operations phases – although it would only employ approximately 20 people instead of 40, generate property tax revenues for the City to enhance its services to the community and infrastructural improvements, and provide the City with a space to host periodic community outdoor events. However, due to its reduced density, it would not meet the financial-related objectives as well as the proposed Project. Because of its smaller scale, Alternative 2 would produce fewer short-and long-term jobs during construction and operations phases, generate less property tax revenues for the City to enhance its services to the community and infrastructural improvements and the City would not receive any monetary public benefit to the City's General Fund.

Comparison of the Environmental Effects of Alternative 2 to the Proposed Project

Because Alternative 2 would develop half the building square footage over the Project footprint of half the size and would generate half the operational employment of the proposed Project, it would reduce environmental impacts in many resource areas compared to the proposed Project but it would not eliminate the significant and unavoidable construction noise impact. Further details are provided in the subsections that follow.

Air Quality, Energy, and Greenhouse Gas Emissions

Due to its reduced development footprint and building size, Alternative 2 would result in lower overall construction impacts related to air quality, energy, and GHG emissions than the proposed Project. However, daily construction intensity and associated emissions would likely remain the same. Because air quality impacts are based on maximum daily construction emissions, impacts would not change under Alternative 2 and would thus remain less than significant for the same reasons described in Section 3.1, Air Quality, of this EIR. For construction health risk, even assuming that reducing the Project by half would result in a corresponding reduction of the health risk by half, the risk would still be above the threshold of significance and would require implementation of MM-AQ-1. Construction-related GHG emissions and energy use would be reduced compared to the proposed Project and would remain less than significant.

Operational activity for Alternative 2, including vehicle trips, energy use, maintenance, and stationary sources, would be reduced by half compared to the proposed Project. As such, air pollutant emissions, energy use, and GHG emissions during operation would be less than the proposed Project and would remain less than significant for the same reasons described in Section 3.1, Section 3.3, and Section 3.5 of this EIR.

Cultural Resources

Alternative 2 would be located on the same site as the proposed Project but with a reduced footprint that covers the western half of the Project site. Alternative 2 would result in the demolition of the same existing on-site structures and excavation to the same depth for construction of the building as the proposed Project. Although the construction footprint would be reduced under Alternative 2, ground disturbance would still occur over the whole proposed Project site due to excavation associated with implementation of the Final RAP. Therefore, as with the proposed Project, MM-CUL-1 through MM-CUL-3 would apply to Alternative 2 and would reduce impacts to less than significant for the same reasons described in Section 3.2, Cultural Resources, of this EIR.

Geology and Soils

Alternative 2 would be located on the same site as the proposed Project but with a reduced footprint that covers the western half of the Project site. As such, it would impact the same geological setting as the proposed Project but within a smaller area and its impacts related to geology and soils would be similar to those of the proposed Project. Alternative 2 would be designed and built with adherence to the same building code requirements as the proposed Project, which would ensure that as with the proposed Project, geology and soils impacts of Alternative 2 would be less than significant for the same reasons described in Section 3.4, Geology and Soils, of this EIR.

Hazards and Hazardous Materials

Although the proposed Project would only include parking over the eastern half of the Project site, which would not interfere with or damage the engineered cap being installed as part of the Final RAP, Alternative 2 would be located only on the western half of the Project site and would completely avoid the engineered cap. Therefore, the operation of Alternative 2 would not include any responsibilities or requirements related to maintaining the remedy. As such, portions of PDF-HAZ-1, as described in

Section 3.6 of this EIR would not be applicable to Alternative 2 because the reduced Project alternative would be outside the footprint of the remediation area. However, similar to the proposed Project, Alternative 2 would include a building on the western half of the Project site. Therefore, the installation of a soil vapor barrier and ventilation system beneath the structure, required as specified inPDF-HAZ-2, would apply to Alternative 2.

Under the RAP, two of the buildings will be demolished. During construction, Alternative 2 would require the demolition of the remaining existing industrial building on the western half of the Project and the residence in the southwestern corner of the site, which, based on their age, have the potential to contain asbestos-containing materials, lead-based paints, and other hazardous building materials. As such, implementation of MM-HAZ-1 would be required during demolition of the on-site structures on the western portion of the Project site under Alternative 2 to reduce impact to less than significant. Additionally, construction of Alternative 2 would occur on the west side of the Project site where there are small areas of diesel contamination above risk-based screening levels (ESLs) for construction and commercial exposure, and gasoline-range organics and PCE concentrations in soil vapor above ESLs for commercial exposure. As such, excavation and relocation/removal of these soils could result in hazards to the public or environment such that impacts would be potentially significant if the contaminated soil is not appropriately managed for the same reasons described in Section 3.6. Therefore, development of a soil management plan (SMP) in accordance with MM-HAZ-2 would be required under Alternative 2 to reduce impacts to less than significant.

Hydrology and Water Quality

Alternative 2 would have a construction footprint half the size of the proposed Project's footprint and would require less water for dust suppression during construction. Because Alternative 2 would be half the size of the proposed Project, its water demand during operation would be half that of the proposed Project. As such, Alternative 2's impact on groundwater supplies would be less than that of the proposed Project and would remain less than significant for the same reasons discussed in Section 3.7, Hydrology and Water Quality, of this EIR. Alternative 2 would include the same drainage features as the proposed Project, sized proportionally for the drainage and runoff that would be generated by a development with half the footprint of the proposed Project. As such, its impact related to runoff would remain less than significant for the same reasons discussed in Section 3.7 of this EIR. Alternative 2 would employ BMPs as part of a SWPPP during construction and as stated previously, would have a reduced water demand compared to the proposed Project and employ the same drainage features as the proposed Project. Therefore, Alternative 2's impacts related to water quality control plans and sustainable groundwater management plans would remain less than significant for the same reasons discussed in Section 3.7 of this EIR.

Land Use and Planning

Alternative 2 would develop the same uses on the same site as the proposed Project but within a smaller footprint. Therefore, its consistency with land use plans, policies and regulations would be the same as the proposed Project, as discussed in Section 3.8, Land Use and Planning, of this EIR, and would remain less than significant.

Noise

Alternative 2 would have a reduced construction period compared to the proposed Project. However, construction of Alternative 2 would include the same construction equipment and phases as the proposed Project and be located the same distance from the nearest sensitive receptor as the proposed Project. Therefore, for the same reasons discussed in Section 3.9 of this EIR, Alternative 2 would result in a significant and unavoidable noise impact to nearby receptors during construction.

As the operation of Alternative 2 would contain the same uses but be half the size of the proposed Project, operational noise from Alternative 2 would likely be reduced compared to the proposed Project and would therefore remain less than significant for the same reasons discussed in Section 3.9.

Transportation

Because Alternative 2 would include the same operational uses as the proposed Project but at half the size, it would also generate half the trips as the proposed Project. The industrial warehouse/distribution and self-storage components under Alternative 2 would generate approximately 60 trips and 54 trips, respectively, which are still above the screening threshold of 110 trips for VMT analysis. However, because the trips generated by Alternative 2 would be half of those generated for the proposed Project, the VMT impacts would be less than significant for the same reasons discussed in Section 3.10, Transportation, of this EIR. Because site access would be the same as the proposed Project but with half the vehicle volume, Alternative 2's impacts related to hazards due to a geometric design feature or incompatible use would remain less than significant for the same reasons discussed in Section 3.10 of this EIR.

Tribal Cultural Resources

Alternative 2 would be located on the same site as the proposed Project but with a reduced footprint that covers the western half of the Project site. As such, it would impact the same tribal cultural resources setting as the proposed Project but within a smaller area. Alternative 2 would result in excavation to the same depth for construction of the building as the proposed Project. Because of its reduced footprint, the likelihood of encountering unanticipated tribal cultural resources would be reduced compared to the proposed Project but encountering resources could still be a possibility. Therefore, MM-TCR-1 through MM-TCR-4 would apply to Alternative 2 and would reduce impacts to less than significant for the same reasons discussed in Section 3.11, Tribal Cultural Resources, of this EIR.

Utilities and Service Systems

Alternative 2 would develop a Project half the size of the proposed Project but with the same uses. As such, its demand on all utilities, water supplies and wastewater treatment and its solid waste generation would be half that of the proposed Project and would remain less than significant for the same reasons discussed in Section 3.12, Utilities and Service Systems, of this EIR.

5.3.3 Alternative 3 – Self-Storage Only Alternative

Alternative 3 consists of self-storage only development at the Project site. Like the proposed Project, this Alternative assumes a single building totaling 268,000 square feet. However, under this Alternative, the building would be entirely self-storage, except for 2,000 square feet for office/lease space. Assuming a similar proportion of self-storage units to overall square footage, this Alternative assumes 2,100 self-storage units.

Alternative 3 would include similar construction activities as the Project, given the same parking, square footage, and landscaping would be constructed. Operation of Alternative 3 would result in fewer employees, given self-storage uses require fewer employees than industrial warehouse/distribution uses. City-sponsored special events would remain unchanged under this Alternative.

Ability to Meet Project Objectives

Because Alternative 3 involves construction and operation of a facility of the same size and within the same footprint as the proposed Project but without the industrial warehouse/distribution use, Alternative 3 would meet all of the Project objectives but not to the same degree as the proposed Project. It would redevelop an underutilized, blighted and environmentally impacted property with an economically commercial use along a major development corridor within the City, develop appropriate uses in an area with a legacy of contamination in a manner that protects human health and the environment and allows for continued monitoring of remediated areas, produce short- jobs during the construction phase and only two jobs during the operations phase and provide the City with a space to host periodic community outdoor events. However, due to the elimination of the industrial use, it would not meet the financial-related objectives as well as the proposed Project. Alternative 3 would produce fewer long-term jobs during the operational phase and generate less property tax revenues for the City to enhance its services to the community and infrastructural improvements and would not provide the revenue to make any monetary contribution to the City.

Comparison of the Environmental Effects of Alternative 3 to the Proposed Project

Because Alternative 3 involves construction and operation of a facility of the same size and within the same project footprint as the proposed Project but without the industrial warehouse/distribution use, it would have essentially the same impacts as the proposed Project in most resource areas, with the exception of operational air quality and transportation impacts, which would be reduced given that fewer vehicle trips would occur. Alternative 3 would not reduce or eliminate the significant and unavoidable construction noise impact. Further details are provided in the subsections that follow.

Air Quality, Energy, and Greenhouse Gas Emissions

Because Alternative 3 would construct a structure of the same square footage on the same footprint and with the same parking SF and landscaping components as the proposed Project, construction emissions would be approximately the same as those of the proposed Project. As such, impacts would not change under Alternative 3 and would thus remain less than significant for the same reasons described in Section 3.1 of this EIR. For construction health risk, because construction emissions would be approximately the same as the proposed Project, the risk would be above the threshold of significance and would require implementation of MM-AQ-1.

Operational activity for Alternative 3, including energy use, maintenance, and stationary source emissions, would be similar to the proposed Project. Because Alternative 3 would include primarily self-storage (2,100 units) and no industrial warehouse/distribution component, trip generation for Alternative 3 would be 380 total daily trips when compared to the 578 total daily trips under the proposed Project. Alternative 3 would also not include truck trips associated with the industrial warehouse uses. Therefore, mobile source emissions would be reduced when compared to the proposed Project. As such, air pollutant emissions, energy use, and GHG emissions during operation would be reduced when compared to the proposed Project, and impacts would be less than significant for the same reasons discussed in Section 3.1, Section 3.3, and Section 3.5 of this EIR.

Cultural Resources

Alternative 3 would be located on the same site and within the same development footprint as the proposed Project. As such, it would impact the same cultural resources setting as the proposed Project. Alternative 3 would result in the demolition of the same existing on-site structures and excavation to the same depth for construction of the building as the proposed Project. Therefore, for the same reasons discussed in Section 3.2 of this EIR, MM-CUL-1 through MM-CUL-3 would apply to Alternative 3 and would reduce impacts to less than significant.

Geology and Soils

Alternative 3 would be located on the same site and within the same development footprint as the proposed Project. As such, it would impact the same geological setting as the proposed Project. Alternative 3 would be designed and built with adherence to the same building code requirements as the proposed Project, which would ensure that as with the proposed Project, geology and soils impacts of Alternative 3 would be less than significant for the same reasons discussed in Section 3.4 of this EIR.

Hazards and Hazardous Materials

Alternative 3 would be located on the same site and within the same development footprint as the proposed Project. As such, it would overlap the engineered cap being installed over the Cooper Sump area of the Project site as part of the Final RAP. Therefore, for the same reasons discussed in Section 3.6 of this EIR, Alternative 3 would require adherence to PDF-HAZ-1 and PDF-HAZ-2.

As discussed in Section 3.6 for the proposed Project, Alternative 3 would require the additional demolition of the remaining industrial building and residence on the western half of the Project site, which, based on their age, have the potential to contain asbestos-containing materials, lead-based paints, and other hazardous building materials. As such, implementation of MM-HAZ-1 would be required during construction of Alternative 3 to reduce impact to less than significant. Additionally, construction of Alternative 3 would encounter the small areas of diesel contamination above risk-based screening levels (ESLs) for construction and commercial exposure, and gasoline-range organics and PCE concentrations in soil vapor above ESLs for commercial exposure on the west side of the Project site. As such, excavation and relocation/removal of these soils could result in hazards to the public or environment such that impacts would be potentially significant if the contaminated soil is not appropriately managed. Therefore, development of a soil management plan (SMP) in

accordance with MM-HAZ-2 would be required under Alternative 3 to reduce impacts to less than significant for the same reasons discussed in Section 3.6 of this EIR.

Hydrology and Water Quality

Alternative 3 would have the same construction footprint as the proposed Project. As such, it would require the same amount of water for dust suppression during construction. Because Alternative 3 would not include the industrial warehouse/distribution use, its water demand would be the same or less than proposed Project. As such, its impact on groundwater supplies would remain less than significant for the same reasons discussed in Section 3.7 of this EIR. Alternative 3 would include the same drainage features as the proposed Project. As such, its impact related to runoff would remain less than significant for the same reasons discussed in Section 3.7 of this EIR. Alternative 3 would employ BMPs as part of a SWPPP during construction and as stated previously, would have a similar water demand compared to the proposed Project and employ the same drainage features as the proposed Project. Therefore, Alternative 3's impacts related to water quality control plans and sustainable groundwater management plans would remain less than significant for the same reasons discussed in Section 3.7 of this EIR.

Land Use and Planning

Alternative 3 would develop a Project within the same footprint as the proposed Project that contains two of the uses included in the proposed Project (self-storage and office). Therefore, its consistency with land use plans, policies and regulations would be the same as the proposed Project, as discussed in Section 3.8 of this EIR and would remain less than significant.

Noise

Because Alternative 3 would involve development of a building and Project footprint that is the same as the proposed Project, construction of Alternative 3 would be approximately the same as that of the proposed Project. It would include the same construction equipment and phases and be located the same distance from the nearest sensitive receptors. Therefore, for the same reasons discussed in Section 3.9 of this EIR, Alternative 3 would result in a significant and unavoidable noise impact to nearby receptors during construction.

Alternative 3 would not include truck and loading dock activities. However, as shown in Table 3.9-8, Stationary Source Noise Levels (dBA), of the EIR, truck and loading dock activities would not produce the highest noise level at any of the nearby receivers under the proposed Project. Storage loading and unloading activities would produce the highest noise levels at residential receptors to the southwest and west given their immediate adjacency to residential uses. Therefore, self-storage only operation as proposed under Alternative 3 would likely result in the same operational noise levels at nearby sensitive receptors as under the proposed Project.

Transportation

Alternative 3 would include approximately 2,100 self-storage units and no industrial warehouse/distribution use. Alternative 3 would result in a total of 380 total daily trips when compared to the 578 total daily trips under the proposed Project. Because the trips generated by

Alternative 3 would be notably less than those generated for the proposed Project, the VMT impacts would be less than significant for the same reasons discussed in Section 3.10 of this EIR.

Because site access would be the same as the proposed Project under Alternative 3, impacts related to hazards due to a geometric design feature or incompatible use would remain less than significant for the same reasons discussed in Section 3.10.

Tribal Cultural Resources

Alternative 3 would be located on the same development footprint with excavation to the same depth as the proposed Project. As such, it would impact the same tribal cultural resources setting as the proposed Project and have the same chance of encountering unanticipated tribal cultural resources as the proposed Project. Therefore, for the same reasons discussed in Section 3.11 of this EIR, MM-TCR-1 through MM-TCR-4 would apply to Alternative 3 and would reduce impacts to less than significant.

Utilities and Service Systems

Alternative 3 would develop a Project of the same size as the proposed Project but without the industrial warehouse/distribution use. As such, its demand on all utilities, water supplies and wastewater treatment and its solid waste generation would be less than that of the proposed Project and would remain less than significant for the same reasons discussed in Section 3.12 of this EIR.

5.3.4 Alternative 4 – Truck-Storage Lot Alternative

Alternative 4 would replace the Project's self-storage, industrial, and office/mezzanine use building (totaling 268,000 SF) with a truck parking and storage lot. Alternative 4 would include 165 trailer parking stalls for heavy-duty trucks to drop off and store trailers as well as a security check-in station at the northwest corner at the entrance/exit. Alternative 4 would include demolition of all on-site structures and paving of the entire Project site. A conceptual site plan for Alternative 4 is depicted on Figure 5-1.

Operations would result in an estimated two employees for nighttime security purposes only. Heavy-duty trucks would drive onto the site via Artesia Boulevard and store trailers, typically for up to 48 hours. Some heavy-duty trucks may drop off their trailers and containers at the site, which could be stored at the site for longer periods of time up to 1 month. Special events would not occur under Alternative 4 because the entire Project site would be needed for trailer and container storage on a 24-hour, 7-day-per-week basis with all tractor trailer spaces available due to the unpredictability of the number of spaces needed at any given time.

Ability to Meet Project Objectives

Alternative 4 would meet some of the Project objectives but not to the same degree as the proposed Project. It would redevelop an underutilized, blighted and environmentally impacted property but not with the proposed Project's economically vibrant industrial and commercial uses. It would develop appropriate uses in an area with a legacy of contamination in a manner that protects human health and the environment and allows for continued monitoring of remediated areas. Alternative 4 would produce far fewer short-term- jobs during construction and only two jobs during the operations phase.

Alternative 4 would also generate less property tax revenues for the City to enhance its services to the community and infrastructural improvements and would not provide the City any monetary public benefit to the City's General Fund. Additionally, Alternative 4 would not meet the objective of providing the City with a space to host periodic community outdoor events.

Comparison of the Environmental Effects of Alternative 4 to the Proposed Project

Construction of Alternative 4 would produce lesser air quality, GHG and noise impacts than the proposed Project because construction intensity and duration would be reduced. However, because construction activity would still occur over the entire Project site and at the same distances to surrounding sensitive receptors, Alternative 4 would not eliminate the significant and unavoidable noise impact. During operations, Alternative 4 would have lower operational noise, vibration, transportation, and pedestrian safety impacts than the proposed Project. Further details are provided in the subsections that follow.

Air Quality, Energy, and Greenhouse Gas Emissions

Because Alternative 4 would involve substantially less construction than the proposed Project, construction emissions would be reduced compared to the proposed Project. As such, impacts would remain less than significant for the same reasons described in Section 3.1 of this EIR. For construction health risk, while construction emissions would be less than the proposed Project, grading of the Project site would still be required, and thus the need for implementation of MM-AQ-1 is required. As such, impacts would be less than significant with mitigation.

Operational activity for Alternative 4, including energy use, maintenance, and stationary source emissions, would be substantially less than the proposed Project. Employee vehicle trips would also be greatly reduced (4 daily trips for security personnel) compared to 578 total daily trips under the proposed Project. And the stored trucks at the site would have engines off, thereby producing little to no air emissions. Therefore, mobile source emissions would be reduced when compared to the proposed Project. As such, air pollutant emissions, energy use, and GHG emissions during operation would be reduced when compared to the proposed Project, and impacts would be less than significant for the same reasons discussed in Section 3.1, Section 3.3, and Section 3.5 of this EIR.

Cultural Resources

Alternative 4 would be located on the same site and within the same development footprint as the proposed Project. As such, it would impact the same cultural resources setting as the proposed Project. Alternative 4 would result in the demolition of the same existing on-site structures. While the excavation depth would likely be reduced and thus potentially reduce impacts to such resources compared to the proposed Project, grading activities would still be required, and as such, for the same reasons discussed in Section 3.2 of this EIR, MM-CUL-1 through MM-CUL-3 would apply to Alternative 4 and would reduce impacts to less than significant.

Geology and Soils

Alternative 4 would be located on the same site and within the same development footprint as the proposed Project. As such, it would impact the same geological setting as the proposed Project.

However, Alternative 4 would not involve the construction of habitable structures as the security station would be modular. The parking lot, lighting and other elements of Alternative 4 would be designed and built with adherence to applicable code requirements. Therefore, the geology and soils impacts of Alternative 4 would be less than significant for the same reasons discussed in Section 3.4 of this EIR.

Hazards and Hazardous Materials

Alternative 4 would be located on the same site and within the same development footprint as the proposed Project. As such, it would overlap the engineered cap being installed over the Cooper Sump area of the Project site as part of the Final RAP. Therefore, for the same reasons discussed in Section 3.6 of this EIR, Alternative 4 would require adherence to PDF-HAZ-1 and PDF-HAZ-2.

As discussed in Section 3.6 for the proposed Project, Alternative 4 would require the demolition of the remaining existing industrial and residential buildings on the western half of the Project site, which, based on their age, have the potential to contain asbestos-containing materials, lead-based paints, and other hazardous building materials. As such, implementation of MM-HAZ-1 would be required during construction of Alternative 4 to reduce impacts to less than significant. Additionally, construction of Alternative 4 would encounter the small areas of diesel contamination above risk-based screening levels (ESLs) for construction and commercial exposure, and gasoline-range organics and PCE concentrations in soil vapor above ESLs for commercial exposure on the west side of the Project site. As such, excavation and relocation/removal of these soils could result in hazards to the public or environment such that impacts would be potentially significant if the contaminated soil is not appropriately managed. Therefore, development of a soil management plan (SMP) in accordance with MM-HAZ-2 would be required under Alternative 4 to reduce impacts to less than significant for the same reasons discussed in Section 3.6 of this EIR.

Hydrology and Water Quality

Alternative 4 would have the same construction footprint as the proposed Project. As such, it would require the same amount of water for dust suppression during construction. Because Alternative 4 would not involve buildings that would require water use during operations, water demand would be substantially less than proposed Project. As such, Alternative 4's impact on groundwater supplies would remain less than significant for the same reasons discussed in Section 3.7 of this EIR. Alternative 4 would include similar drainage features as the proposed Project. As such, its impact related to runoff would remain less than significant for the same reasons discussed in Section 3.7 of this EIR. Alternative 4 would employ BMPs as part of a SWPPP during construction and as stated previously, would have a much lower water demand compared to the proposed Project. Therefore, Alternative 4's impacts related to water quality control plans and sustainable groundwater management plans would remain less than significant for the same reasons discussed in Section 3.7 of this EIR.

Land Use and Planning

Alternative 4 would develop a Project within the same footprint as the proposed Project, which has a land use designation of Specific Plan and is zoned as the 1450 Artesia Specific Plan, with a notation that it would be developed for industrial and commercial uses once a specific plan was adopted.

Alternative 4 would develop an industrial use at the Project site, which would be consistent with the zoning and land use designation. Therefore, it would be consistent with land use plans, policies and regulations and would remain less than significant.

Noise

Construction of Alternative 4 would be less intensive, shorter and involve fewer types of construction equipment than the proposed Project. However, it would be constructed on the same footprint as the proposed Project and would therefore be constructed the same distance form surrounding sensitive receptors. Therefore, for the same reasons discussed in Section 3.9 of this EIR, Alternative 4 would result in a significant and unavoidable noise impact to nearby receptors during construction though the duration of the impact would be reduced.

Alternative 4 would not include storage loading and unloading activities, which were shown to produce the highest noise levels at off-site residential receptors to the southwest and west under the proposed Project. Therefore, Alternative 4 would result in lower operational noise levels at nearby sensitive receptors than the proposed Project. Impacts would remain less than significant for the same reasons discussed in Section 3.9 of this EIR.

Transportation

Alternative 4 would develop a truck-storage lot that would result in 4 total daily trips, compared to the 578 total daily trips under the proposed Project. Because the trips generated by Alternative 4 would be much less than those generated for the proposed Project, the VMT impacts would be less than significant for the same reasons discussed in Section 3.10 of this EIR.

Because site access would be the same as the proposed Project under Alternative 4, impacts related to hazards due to a geometric design feature or incompatible use would remain less than significant for the same reasons discussed in Section 3.10.

Tribal Cultural Resources

Alternative 4 would be located on the same development footprint as the proposed Project As such, it would impact the same tribal cultural resources setting as the proposed Project. Alternative 4 would result in the demolition of the same existing on-site structures. While the excavation depth would likely be reduced and impacts to such resources would also likely be less compared to the proposed Project, grading of the Project site would still be required, and as such, for the same reasons discussed in Section 3.11 of this EIR, MM-TCR-1 through MM-TCR-4 would apply to Alternative 4 and would reduce impacts to less than significant.

Utilities and Service Systems

Alternative 4 would develop a truck-storage lot with minimal utility requirements. As such, its demand on all utilities, water supplies and wastewater treatment and its solid waste generation would be far less than that of the proposed Project and would remain less than significant for the same reasons discussed in Section 3.12 if this EIR.

5.4 Environmentally Superior Alternative

CEQA Guidelines Section 15126.6(e)(2) indicates that an analysis of alternatives to a project shall identify an Environmentally Superior Alternative among the alternatives evaluated in an EIR. The CEQA Guidelines also state that should it be determined that the No Project Alternative is the Environmentally Superior Alternative, the EIR shall identify another Environmentally Superior Alternative among the remaining alternatives.

A summary of the environmental impacts associated with each alternative is provided in Table 5-1. As shown, Alternative 1 (No Project Alternative) would be the environmentally superior alternative, because it would avoid all of the environmental impacts of the proposed Project.

The environmental impacts of Alternative 2 (Reduced Density Alternative) would be reduced compared to the proposed Project in the areas of construction and operational air quality, greenhouse gas emissions and energy because construction and operational activity would be reduced by half. It would also reduce demand on utilities and water supplies by half and generate half the solid waste of the proposed Project. Alternative 2 would also avoid construction and operation over the engineered cap on the eastern half of the Project site, which would reduce potential exposure to the most contaminated portion of the site. Alternative 2 would also result in half the amount of vehicle trips when compared to the proposed Project. However, these reductions in impacts would not result in any different impact determinations than the determinations for the proposed Project. Additionally, Alternative 2 would not reduce or avoid the significant and unavoidable construction noise impact generated by the proposed Project.

The environmental impacts of Alternative 3 (Self-Storage Only Alternative) would be essentially the same as the proposed Project because the Project would be the same size and on the same footprint, with the exception of operational air quality and transportation impacts, which would be reduced when compared to the proposed Project because the trip generation would be reduced. Some reductions in demand on utilities and solid waste generation could occur with the removal of the industrial warehouse/distribution use but they would not be substantial and would not result in any different impact determinations than the determinations for the proposed Project. Additionally, Alternative 3 would not reduce or avoid the significant and unavoidable construction noise impact generated by the proposed Project.

The environmental impacts of Alternative 4 (Truck Storage Alternative) would be reduced compared to the proposed Project areas of construction and operational air quality, greenhouse gas emissions and energy because construction and operational activity would be greatly reduced as both constructing and operating a truck storage facility would be much less intensive than constructing and operating the proposed Project. It would also significantly reduce demand on utilities and water supplies and generate much less solid waste than the proposed Project. Alternative 4 would greatly reduce the number of vehicle trips when compared to the proposed Project, from 578 total daily trips under the proposed Project to 4 total daily trips under Alternative 4. However, Alternative 4 would not reduce or avoid the significant and unavoidable construction noise impact generated by the proposed Project.

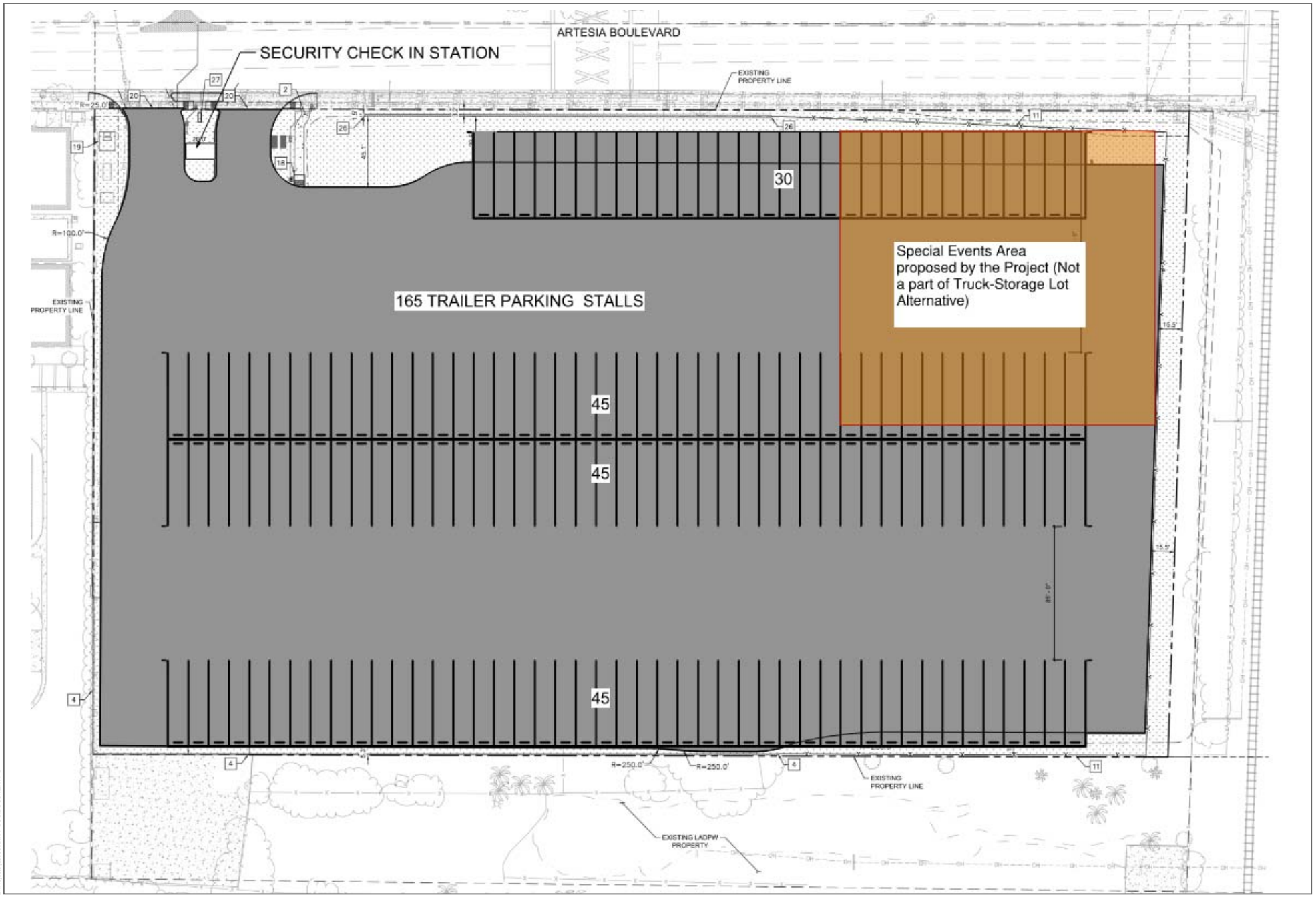
For these reasons, other than the No Project Alternative, Alternative 4 would be considered the environmentally superior alternative.

Table 5-1. Project Alternatives Environmental Impacts Comparison

Environmental Issue Area	Project	No Project Alternative (Alternative 1)	Reduced Density Alternative (Alternative 2)	Self-Storage Only Alternative (Alternative 3)	Truck-Storage Lot Alternative (Alternative 4)
Air Quality	Less than Significant with Mitigation	No Impact	Less than Significant with Mitigation	Less than Significant with Mitigation	Less than Significant with Mitigation
Cultural Resources	Less than Significant with Mitigation	No Impact	Less than Significant with Mitigation	Less than Significant with Mitigation	Less than Significant with Mitigation
Energy	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant
Geology and Soils	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant
Greenhouse Gas Emissions	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant
Hazards and Hazardous Materials	Less than Significant with Mitigation	No Impact	Less than Significant with Mitigation	Less than Significant with Mitigation	Less than Significant with Mitigation
Hydrology and Water Quality	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant
Land Use and Planning	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant
Noise	Significant and Unavoidable	No Impact	Significant and Unavoidable	Significant and Unavoidable	Significant and Unavoidable
Transportation	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant

Table 5-1. Project Alternatives Environmental Impacts Comparison

Environmental Issue Area	Project	No Project Alternative (Alternative 1)	Reduced Density Alternative (Alternative 2)	Self-Storage Only Alternative (Alternative 3)	Truck-Storage Lot Alternative (Alternative 4)
Tribal Cultural Resources	Less than Significant with Mitigation	No Impact	Less than Significant with Mitigation	Less than Significant with Mitigation	Less than Significant with Mitigation
Utilities and Service Systems	Less than Significant	No Impact	Less than Significant	Less than Significant	Less than Significant



SOURCE: May 2023 Draft 1450 Artesia Specific Plan (City of Gardena)

FIGURE 5-1

Truck-Storage Lot Alternative Conceptual Plan

1450 Artesia Specific Plan Draft EIR

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Final Environmental Impact Report

1450 Artesia Specific Plan

State Clearinghouse No. 2023060263

JANUARY 2025

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1 Preface

1.1 Purpose

This Final Environmental Impact Report (EIR) has been prepared by the City of Gardena (City) for the 1450 Artesia Specific Plan (Project or proposed Project). This Final EIR has been prepared in conformance with the California Environmental Quality Act of 1970 (CEQA) statutes (Cal. Pub. Res. Code, Section 21000 et. seq., as amended) and implementing guidelines (Cal. Code Regs., Title 14, Section 15000 et. seq.).

Before approving a project, CEQA requires the lead agency to prepare and certify a Final EIR. The City has the principal responsibility for approval of the proposed Project and is therefore considered the lead agency under CEQA Section 21067. According to the CEQA Guidelines, Section 15132, the Final EIR shall consist of:

- The Draft EIR or a revision of the Draft EIR
- Comments and recommendations received on the Draft EIR either verbatim or in summary
- A list of persons, organizations, and public agencies commenting on the Draft EIR
- The responses of the lead agency to significant environmental points raised in the review and consultation process; and
- Any other information added by the lead agency

1.2 Format of the Final EIR

This Final EIR consists of the August 2024 Draft EIR and the following four chapters:

1.0 Preface. This chapter summarizes the contents of the Final EIR and the environmental review process.

2.0 Response to Comments. During the public review period for the Draft EIR, six comment letters were received. This chapter contains these comment letters and the City's responses to the comments.

3.0 Errata. Comments that are addressed in Chapter 2.0 may have resulted in minor revisions to the information contained in the August 2024 Draft EIR. Where necessary, deletions to the text are shown ~~strikeout~~ and additions to the text are shown in <u>double underline</u> in with references to where those changes apply to the text of the Draft EIR. Additionally, through the certification of this Final EIR, where the term "Draft EIR" is used in the text, this is now deemed to be "Final EIR."

4.0 Mitigation Monitoring and Reporting Program. This section of the Final EIR provides the mitigation monitoring and reporting program (MMRP) for the proposed Project. The MMRP is presented in table format and identifies mitigation measures for the proposed Project, the implementation period for each measure, the implementing party, and the enforcing agency. The MMRP also provides a section for recordation of mitigation reporting.

1.3 Environmental Review Process

1.3.1 Notice of Preparation

The City determined that an EIR would be required for the proposed Project and issued a Notice of Preparation (NOP), which was distributed to the State Clearinghouse, interested agencies, and groups on June 8, 2023. Pursuant to Section 15082 of the CEQA Guidelines, recipients of the NOP were requested to provide responses within 30 days after their receipt of the NOP. The 30-day NOP public review period ended July 10, 2023. Comments received during the NOP public review period were considered during the preparation of this EIR. The NOP and NOP comments are included in Appendix A of the Draft EIR.

1.3.2 Noticing and Availability of the Draft

The Draft EIR was made available for public review and comment pursuant to CEQA Guidelines Section 15087. The 45-day public review period for the Draft EIR started on August 1, 2024, and ended on September 16, 2024. At the beginning of the public review period, an electronic copy of the Draft EIR and an electronic copy of the Notice of Completion (NOC) were submitted to the State Clearinghouse. Relevant State agencies, including the California Air Resources Board, Caltrans, the California Department of Conservation, the California Department of Fish and Wildlife, the California Department of Forestry and Fire Protection, the California Governor's Office of Emergency Services, the California Native American Heritage Commission, the State Office of Historic Preservation, the California Highway Patrol, the California Department of Parks and Recreation, the California Public Utilities Commission, the State Water Resources Control Board and Regional Water Quality Control Board, the California Natural Resources Agency, the California Department of Resources Recycling and Recovery, the Department of Toxic Substances Control and the California Department of Water Resources also received electronic copies of the documents. A Notice of Availability (NOA) was distributed to over 40 interested parties and surrounding property owners and filed with the Los Angeles County Clerk. The NOA described where the document was available and how to submit comments on the Draft EIR. The NOA and Draft EIR were also made available for public review, by appointment, at the City Clerk's office (1700 West 162nd Street, Gardena). Additionally, the document was available to be viewed on City's website at:

https://cityofgardena.org/community-development/planning-projects/

The 45-day public review period provided interested public agencies, groups, and individuals the opportunity to comment on the contents of the Draft EIR.

1.3.3 Final EIR

The Final EIR addresses the comments received during the public review period and includes minor changes to the text of the Draft EIR in accordance with comments that necessitated revisions. This Final EIR will be presented to the City for potential certification as the environmental document for the proposed Project. All agencies who commented on the Draft EIR will be provided with a copy of

the Final EIR, pursuant to CEQA Guidelines Section 15088(b). The Final EIR will also be posted on the City's website at:

https://cityofgardena.org/community-development/planning-projects/

Pursuant to CEQA Guidelines Section 15091, the City shall make findings for each of the significant effects identified in this EIR and shall support the findings with substantial evidence in the record. After considering the Final EIR in conjunction with making findings under Section 15091, the lead agency may decide whether or how to approve or carry out the Project. When a lead agency approves a project that will result in the occurrence of significant effects that are identified in the Final EIR but are not avoided or substantially lessened, the agency is required by CEQA to state in writing the specific reasons to support its action based on the Final EIR and/or other information in the record. Because the Project would result in significant and unavoidable impacts, a "statement of overriding considerations" will be prepared pursuant to CEQA Guidelines Section 15093 and supported by substantial evidence in the record.

1.4 Revisions to the Draft EIR

The comments received during the public review period for the Draft EIR resulted in several minor clarifications and modifications in the text of the August 2024 Draft EIR. In addition, minor editorial corrections have been made in sections of the Draft EIR. These changes are included as part of the Final EIR, to be presented to City decision makers for certification and Project approval.

CEQA Guidelines Section 15088.5 identifies when a lead agency must recirculate an EIR. A lead agency is required to recirculate an EIR when significant new information is added to the EIR after public notice is given of the availability of the Draft EIR but before certification of the Final EIR. Information includes changes in the project or environmental setting as well as additional data or other information. New information added to an EIR is not considered significant unless the EIR is changed in a way that deprives the public of a meaningful opportunity to comment upon a substantial adverse environmental effect of the project or a feasible way to mitigate or avoid such an effect (including a feasible project alternative) that the project's proponents have declined to implement. As defined in CEQA Guidelines Section 15088.5(a), significant new information requiring recirculation includes the following:

1. A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented.
2. A substantial increase in the severity of an environmental impact would result unless mitigation measures are adopted that reduce the impact to a level of insignificance.
3. A feasible project alternative or mitigation measure considerably different from others previously analyzed would clearly lessen the environmental impacts of the project, but the project's proponents decline to adopt it.
4. The draft EIR was so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded.

The minor clarifications, modifications, and editorial corrections that were made to the Draft EIR are shown in Chapter 3.0, Errata, of this Final EIR. None of the revisions that have been made to the EIR resulted in new significant impacts; none of the revisions resulted in a substantial increase in the severity of an environmental impact identified in the Draft EIR; and, none of the revisions brought forth a feasible project alternative or mitigation measure that is considerably different from those set forth in the Draft EIR. Furthermore, the revisions do not cause the Draft EIR to be so fundamentally flawed that it precludes meaningful public review. As none of the CEQA criteria for recirculation have been met, recirculation of the EIR is not warranted. As stated in CEQA Guidelines Section 15088.5(b), "recirculation is not required where the new information added to the EIR merely clarifies or amplifies or makes insignificant modifications in an adequate EIR."

2 Responses to Comments

A draft version of the Environmental Impact Report (EIR) for the proposed Project was circulated for public review from August 1, 2024 to September 16, 2024. This chapter of the Final EIR includes a copy of each comment letter provided during the 45-day public review period for the Draft EIR. The City of Gardena (City) has prepared responses to each comment, which are included in this chapter. The comments are ordered numerically, and the individual issues within each comment letter are bracketed and numbered. The City's responses to comments on the Draft EIR represent a good-faith, reasoned effort to address the environmental issues identified by the comments. Under the CEQA Guidelines, the Lead Agency is required to evaluate and provide written responses to comments received on the Draft EIR (CEQA Guidelines, Section 15088).

As shown in Table 2-1, the City comment letters from four agencies: Los Angeles County Fire Department, Los Angeles County Sanitation Districts, the City of Torrance, and Caltrans. Additionally, letters representing two organizations were submitted. To finalize the EIR for the proposed Project, responses have been prepared to comments that were received during the public review period. In accordance with the requirements of CEQA Guidelines Section 15088(b), the City will provide a written response on comments submitted by public agencies to each respective public agency at least 10 days prior to certifying the Final EIR.

Table 2-1. List of Commenters

Comment Letter	Name	Date
Agencies		
A-1	Los Angeles County Fire Department	08/16/2024
A-2	Los Angeles County Sanitation Districts	09/09/2024
A-3	City of Torrance	09/16/2024
A-4	Caltrans	09/11/2024
Organizations		
O-1	Lozeau Drury LLP	08/27/2024
O-2	Blum, Collins & Ho LLP	09/12/2024

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COUNTY OF LOS ANGELES
FIRE DEPARTMENT

1320 NORTH EASTERN AVENUE
LOS ANGELES, CALIFORNIA 90063-3294
(323) 881-2401
www.fire.lacounty.gov

ANTHONY C. MARRONE
FIRE CHIEF
FORESTER & FIRE WARDEN

"Proud Protectors of Life, the Environment, and Property"

BOARD OF SUPERVISORS
LINDSEY P. HORVATH, CHAIR
THIRD DISTRICT
HILDA L. SOLIS, FIRST DISTRICT
HOLLY J. MITCHELL, SECOND DISTRICT
JANICE HAHN, FOURTH DISTRICT
KATHRYN BARGER, FIFTH DISTRICT

August 16, 2024

LETTER A-1

Amanda Acuna
1700 West 162nd Street Unit 101
Gardena, CA 90247

Dear Ms. Acuna:

THE NOTICE OF AVAILABILITY OF A DRAFT EIR, "1450 ARTESIA SPECIFIC PLAN PROJECT", PROPOSES THE CONSTRUCTION OF A MIXED-USE COMMERCIAL AND INDUSTRIAL DEVELOPMENT TOTALING 268,000 SQUARE-FEET, CITY OF GARDENA, FFER2024003994

The Notice of Availability of a Draft EIR, was reviewed by the Planning Division, Land Development Unit, Forestry Division, and Health Hazardous Materials Division of the County of Los Angeles Fire Department. 1

The following are their comments:

PLANNING DIVISION: 2

We have no comments.

For any questions regarding this response, please contact Kien Chin, at (323) 881-2404 or Kien.Chin@fire.lacounty.gov.

LAND DEVELOPMENT UNIT:

The development of this project must comply with all applicable code and ordinance requirements for construction, access, water mains, fire flows and fire hydrants. Every building constructed shall be accessible to Fire Department apparatus by way of access roadways, with an all-weather surface of not less than 28 width. Revise Project Description on page 2-6 (see attached) of the Specific Plan Draft EIR document. The roadway shall be extended to within 150 feet of all portions of the exterior walls when measured by an unobstructed route around the exterior of the building. The roadway shall provide approved signs and/or stripping stating, 3

SERVING THE UNINCORPORATED AREAS OF LOS ANGELES COUNTY AND THE CITIES OF:

AGOURA HILLS	CARSON	EL MONTE	INGLEWOOD	LAWNDALE	PICO RIVERA	SIGNAL HILL
ARTESIA	CERRITOS	GARDENA	IRWINDALE	LOMITA	POMONA	SOUTH EL MONTE
AZUSA	CLAREMONT	GLENDORA	LA CANADA-FLINTRIDGE	LYNWOOD	RANCHO PALOS VERDES	SOUTH GATE
BALDWIN PARK	COMMERCE	HAWAIIAN GARDENS	LA HABRA	MALIBU	ROLLING HILLS	TEMPLE CITY
BELL	COVINA	HAWTHORNE	LA MIRADA	MAYWOOD	ROLLING HILLS ESTATES	VERNON
BELL GARDENS	CUDAHY	HERMOSA BEACH	LA PUENTE	NORWALK	ROSEMEAD	WALNUT
BELLFLOWER	DIAMOND BAR	HIDDEN HILLS	LAKEWOOD	PALMDALE	SAN DIMAS	WEST HOLLYWOOD
BRADBURY	DUARTE	HUNTINGTON PARK	LANCASTER	PALOS VERDES ESTATES	SANTA CLARITA	WESTLAKE VILLAGE
CALABASAS		INDUSTRY		PARAMOUNT		WHITTIER

"NO PARKING - FIRE LANE" and shall be maintained in accordance with the County of Los Angeles Fire Code. All proposed development within the 1450 Artesia Boulevard Specific Plan shall comply with the County of Los Angeles Fire Code for adequate water and access for firefighting purposes.

Specific fire and life safety requirements for the construction phase will be addressed at the Fire Department building plan check review. There may be additional fire and life safety requirements during this time. 4

Every building constructed shall provide an adequate water supply for fire protection purposes in compliance with applicable codes sections of the County of Los Angeles Fire Code. Specific fire hydrant locations and fire flow requirements will be confirmed during the Fire Department plan check process of the Tentative Map during the subdivision review process. 5

The County of Los Angeles Fire Department, Land Development Unit appreciates the opportunity to comment on this project. Should any questions arise, please contact Juan Padilla at (323) 890-4243 or Juan.Padilla@fire.lacounty.gov. 6

FORESTRY DIVISION – OTHER ENVIRONMENTAL CONCERNS:

The statutory responsibilities of the County of Los Angeles Fire Department, Forestry Division include erosion control, watershed management, rare and endangered species, brush clearance, vegetation management, fuel modification for Fire Hazard Severity Zones, archeological and cultural resources, and the County Oak Tree Ordinance. 7

For any questions regarding this response, please contact Forestry Assistant, Terence Duldulao at (818) 890-5719.

HEALTH HAZARDOUS MATERIALS DIVISION:

The Health Hazardous Materials Division (HHMD) of the Los Angeles County Fire Department advises that the Cal-EPA Department of Toxic Substances Control (DTSC) is currently overseeing the assessment and future mitigation of contaminated soil at the project site. Coordinate project development activities with the DTSC prior to disturbing onsite soil. HHMD has no additional comments or requirements for the project at this time. 8

Please contact HHMD Hazardous Materials Specialist III, Jennifer Levenson at (323) 890-4114 or Jennifer.Levenson@fire.lacounty.gov if you have any questions.

Very truly yours,

RONALD M. DURBIN, CHIEF, FORESTRY DIVISION
PREVENTION SERVICES BUREAU

RMD:pg

Parking

Parking would be located along the northeastern portion of the Project site. CalGreen includes specific parking requirements for bicycle parking, designated parking for clean air vehicles, EV charging stations, and other parking requirements. The Project would include a total of 124 automobile parking stalls.

Landscape and Streetscape

The Project would include aesthetically pleasing and drought-tolerant landscaping (Figure 2-6, Landscape Plan). The Project's streetscape improvements would include a combination of shrubs and trees along the frontage of both Artesia Boulevard and the eastern edge of the property as well as within the Project site.

The landscaping would be layered with regionally adapted plants that minimizing water use. The Project would be consistent with the state and City water efficient landscape ordinances, and a minimum of 75% of the plantings would be water efficient. The total landscaped area is approximately 32,473 SF (or approximately 12% of the total Project site area) and 66% of the total paved area utilized for driveways and open parking areas. Water-wise landscaping principles, including a low percentage of water-thirsty plants, smart irrigation controllers, drip irrigation, and bark mulch to slow evapotranspiration and weed germination would be employed.

Circulation Improvements and Pedestrian Access

The Project would include two curb-cuts – one for right turn in, and one for right turn out driveways along Artesia Boulevard located approximately at the northwest corner of the Project site. Local vehicular access to the Project site would be provided via one 35-foot driveway from Artesia Boulevard. A separate 35-foot exit driveway travel lane would be adjacent to the entrance divided by a 20-foot landscape divide (Figure 2-7, Circulation Plan: Vehicular Access). The Project driveway would only serve the Project. Trucks would access the Project similar to vehicular access with ingress within the northwest portion of the Project with circulation continuing along the western to southern edge of the property and into the loading docks. Trucks would exit the loading dock area heading north within the parking lot with egress back through the northwest of Project (Figure 2-8a, Circulation Plan: Truck Access). The truck circulation would be a loop around the proposed building with an aim to ease flow of on-site traffic. Per Los Angeles County Fire Department requirements, a ~~26-foot-wide~~ fire access lane would surround the property structure with direct access to Artesia Boulevard.

minimum 28ft wide fire apparatus required as shown on Figure 2-8a)

9

During special events, barriers would be erected to separate truck and vehicular traffic. Trucks would exit the same way they come in during special events (Figure 2-8b, Circulation Plan: Truck Access during Special Events).

Pedestrian access to the Project site would be provided from sidewalks located along Artesia Boulevard. Primary pedestrian access would connect to the building lobby on the northern portion of the Project site and to the parking lot within the northeastern portion of the Project site. Areas with loading docks would be gated to prohibit pedestrian access for safety reasons.

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Response to Comment Letter A-1

Los Angeles County Fire Department
Ronald Durbin, Chief, Forestry Division
August 16, 2024

A-1.1 This comment is introductory and nature and does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

A-1.2 This comment states that the Planning Division does not have any comments at this time. As such, no further response is required.

A-1.3 This comment references an attached page with a correction that needs to be incorporated into the Project Description. In response to this comment, the last sentence of the first paragraph under the "Circulation Improvements and Pedestrian Access" on page 2-6 of the EIR is revised to read as follows:

> Per Los Angeles County Fire Department requirements, a ~~26-foot~~ 28-foot-wide fire access lane would surround the property structure with direct access to Artesia Boulevard.

A-1.4 This comment states that specific fire and life safety requirements will be addressed at the Fire Department building plan check review. This comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

A-1.5 This comment states that adequate water supply for fire protection purposes will be required and that fire hydrant locations and fire flow requirements will be confirmed during the plan check process. This comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

A-1.6 This comment is a closing statement from the Land Development Unit. This comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

A-1.7 This comment states the responsibilities of the Forestry Division. This comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

A-1.8 This comment acknowledges that there is future mitigation of contaminated soil at the project site and requests that project development activities be coordinated with DTSC prior to disturbing onsite soil. As discussed in Project Design Feature (PDF)-HAZ-1 in Section 3.6, Hazards and Hazardous Materials, project construction activities will be done in coordination with DTSC.

A-1.9 This comment is the suggested correction to the Project Description, as discussed under Comment A-1.3. In response to this comment, the correction, as noted in Response A-1.3, is incorporated into the Final EIR.

LOS ANGELES COUNTY
SANITATION DISTRICTS
Converting Waste Into Resources

Robert C. Ferrante
Chief Engineer and General Manager

1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
(562) 699-7411 • www.lacsd.org

September 9, 2024

Ref. DOC 7285720

VIA EMAIL aacuna@cityofgardena.org

Ms. Amanda Acuna, Community Development Manager
City of Gardena
1700 West 162nd Street
Gardena, CA 90247

Dear Ms. Acuna:

Second Response to 1450 Artesia Specific Plan Project

The Los Angeles County Sanitation Districts (Districts) received a Notice of Availability (NOA) of a Draft Environmental Impact Report (DEIR) for the subject project located in the City of Gardena on August 2, 2024. The proposed project is located within the jurisdictional boundaries of District No. 5. Previous comments submitted by the Districts in correspondence dated June 29, 2023 (copy enclosed), still apply to the subject project with the following updated information: 1

1. **Section 3.12 Utilities and Service Systems**, *Existing Water Use*, page 3.12-2: the last sentence stated that "The total existing demand for the Project site was conservatively estimated at 604 gallons per day (gpd)." As indicated in the correspondence dated June 29, 2023, the expected increase in average wastewater flow from the project, described as 186,000 square feet of self-storage use, 72,000 square feet of industrial warehouse use, 10,000 square feet of office and/or retail use, and potentially an additional 10,000 square feet of warehouse use is 6,037 gpd, after all structures on the project site are demolished. 2

2. **Section 3.12 Utilities and Service Systems**, *Wastewater*, page 3.12-3: the second to the last paragraph stated that "Both sewer lines are owned and maintained by the LACSD." Please note that LACSD owns the 21-inch sewer main line in Artesia Boulevard, but the 8-inch sewer line in South Normandie Avenue is owned by the City of Gardena. 3

3. All other information concerning Districts' facilities and sewerage service contained in the document is current. 4

If you have any questions, please contact the undersigned at (562) 908-4288, extension 2742, or phorsley@lacsd.org.

Very truly yours,

Patricia Horsley

Patricia Horsley
Environmental Planner
Facilities Planning Department

PLH:plh

Enclosure

DOC 7314275.D05

LOS ANGELES COUNTY SANITATION DISTRICTS
Converting Waste Into Resources

Robert C. Ferrante
Chief Engineer and General Manager
1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
(562) 699-7411 • www.lacsd.org

June 29, 2023

Ref. DOC 6944605

VIA EMAIL aacuna@cityofgardena.org

Ms. Amanda Acuna, Senior Planner
Community Development Department
City of Gardena
1700 West 162nd Street
Gardena, CA 90247

Dear Ms. Acuna:

NOP Response to 1450 Artesia Boulevard Specific Plan

The Los Angeles County Sanitation Districts (Districts) received a Notice of Preparation (NOP) of a Draft Environmental Impact Report (DEIR) for the subject project located in the City of Gardena on June 9, 2023. The proposed project is located within the jurisdictional boundaries of District No. 5. We offer the following comments regarding sewerage service: 5

1. The wastewater flow originating from the proposed project will discharge directly to the Districts' Gardena Pump Trunk Sewer, located in West Artesia Boulevard, between Normandie Avenue and Dalton Avenue. The Districts' 19.9–inch diameter trunk sewer has a capacity of 2.7 million gallons per day (mgd) and conveyed a peak flow of 2.3 mgd when last measured in 2017. A 6-inch diameter or smaller direct connection to a Districts' trunk sewer requires a Trunk Sewer Connection Permit issued by the Districts. An 8-inch diameter or larger direct connection to a Districts' trunk sewer requires submittal of Sewer Plans for review and approval by the Districts. For additional information, please contact the Districts' Engineering Counter at engineeringcounter@lacsd.org or (562) 908-4288, extension 1205. 6

2. The wastewater generated by the proposed project will be treated at the Joint Water Pollution Control Plant located in the City of Carson, which has a capacity of 400 mgd and currently processes an average flow of 243.1 mgd. 7

3. The expected increase in average wastewater flow from the project, described in the Initial Study as 186,000 square feet of self-storage use, 72,000 square feet of industrial warehouse use, 10,000 square feet of office and/or retail use, and potentially an additional 10,000 square feet of warehouse use, is 6,037 gallons per day, after all structures on the project site are demolished. For a copy of the Districts' average wastewater generation factors, go to www.lacsd.org, under Services, then Wastewater Program and Permits and select Will Serve Program, and click on the Table 1, Loadings for Each Class of Land Use link. 8

4. The Districts are empowered by the California Health and Safety Code to charge a fee to connect facilities (directly or indirectly) to the Districts' Sewerage System or to increase the strength or quantity of wastewater discharged from connected facilities. This connection fee is used by the Districts for its capital facilities. Payment of a connection fee may be required before this project is permitted to discharge to the Districts' Sewerage System. For more information and a copy of the Connection Fee Information Sheet, go to www.lacsd.org, under Services, then Wastewater (Sewage) and select Rates & Fees. In determining 9

the impact to the Sewerage System and applicable connection fees, the Districts will determine the user category (e.g. Condominium, Single Family Home, etc.) that best represents the actual or anticipated use of the parcel(s) or facilities on the parcel(s) in the development. For more specific information regarding the connection fee application procedure and fees, please contact the Districts' Wastewater Fee Public Counter at (562) 908-4288, extension 2727.

9 cont.

5. In order for the Districts to conform to the requirements of the Federal Clean Air Act (CAA), the capacities of the Districts' wastewater treatment facilities are based on the regional growth forecast adopted by the Southern California Association of Governments (SCAG). Specific policies included in the development of the SCAG regional growth forecast are incorporated into clean air plans, which are prepared by the South Coast and Antelope Valley Air Quality Management Districts to improve air quality in the South Coast and Mojave Desert Air Basins as mandated by the CAA. All expansions of Districts' facilities must be sized and service phased in a manner that will be consistent with the SCAG regional growth forecast for the counties of Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial. The available capacity of the Districts' treatment facilities will, therefore, be limited to levels associated with the approved growth identified by SCAG. As such, this letter does not constitute a guarantee of wastewater service but is to advise the developer that the Districts intend to provide this service up to the levels that are legally permitted and to inform the developer of the currently existing capacity and any proposed expansion of the Districts' facilities.

10

If you have any questions, please contact the undersigned at (562) 908-4288, extension 2743, or mandyhuffman@lacsd.org.

Very truly yours,

Mandy Huffman

Mandy Huffman
Environmental Planner
Facilities Planning Department

MNH:mnh

cc: A. Schmidt
A. Howard

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Response to Comment Letter A-2

Los Angeles County Sanitation Districts
Patricia Horsley
September 9, 2024

A-2.1 This comment is introductory and nature and does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

A-2.2 This comment references a letter provided by the Sanitation Districts, dated June 29, 2023, where it was indicated that the Project would generate approximately 6,037 gallons per day (gpd) of wastewater flow upon completion of construction, rather than the 604 gpd cited in the EIRAs discussed in Section 3.12, Utilities and Service Systems, the existing water demand is 604 gallons per day (gpd), consistent with the existing demand used in the Project's wastewater analysis included in Appendix L1 of the EIR. The existing wastewater generation amount is estimated at 1,510 gpd, which is also discussed in Appendix L1 of the EIR. This comment estimates the total proposed wastewater demand would be 6,037 gpd upon Project buildout. As discussed on page 3.12-13 in Section 3.12 of the Draft EIR, the analysis within the EIR assumed an expected increase in average wastewater from the Project to be 17,786 gpd, which is significantly greater than the amount estimated by the Sanitation Districts. As shown in Section 3.12, even with this higher estimate, the Project would not require the construction of additional wastewater treatment facilities and potential impacts would be less than significant.

A-2.3 This comment states that the while the Draft EIR identifies that two sewer lines are owned and maintained by the LACSD, LACSD actually owns the 21-inch sewer main line in Artesia Boulevard, and the 8-inch sewer line in South Normandie Avenue is owned by the City of Gardena. In response to this comment, the last sentence of the first full paragraph on page 3.12-3 is revised to read as follows:

> "~~Both sewer lines are~~The 21-inch sewer line in Artesia Boulevard is owned and maintained by the LACSD, while the 8-inch sewer line in South Normandie Avenue is owned and maintained by the City. The site currently connects to the 21-inch sewer main in Artesia Boulevard via a lateral connection."

A-2.4 This comment notes that all other information concerning the District's facilities and sewage service within the Draft EIR is correct and provides contact information for the commenter. This comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

A-2.5 This comment is introductory and was part of the letter submitted on the Notice of Preparation (NOP) on June 29, 2023. The comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

A-2.6 This comment discusses how wastewater flow originating from the Project site would discharge and flow through the wastewater system. This comment was addressed and incorporated into the analysis included in Section 3.12, Utilities and Service Systems, in the Draft EIR. As such, no further response is required.

A-2.7 This comment identifies that wastewater generated by the proposed Project would be treated at the Joint Water Pollution Control Plant located in the City of Carson and identifies the treatment capacity of this Plant. This comment was addressed and incorporated into the analysis included in Section 3.12, Utilities and Service Systems, in the Draft EIR. As such, no further response is required.

A-2.8 This comment references a letter provided by the Sanitation Districts, dated June 29, 2023, where it was indicated that the Project would generate approximately 6,037 gallons per day (gpd) of wastewater flow upon completion of construction, rather than the 604 gpd cited in the EIR. See Response A-2.2 above regarding the estimated wastewater flows from the Project site.

A-2.9 This comment discusses that the Districts are empowered by the California Health and Safety Code to charge a fee to connect facilities (directly or indirectly) to the Districts' Sewage System and how the fee is utilized by the Districts. This comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

A-2.10 This comment discusses how all expansion of Districts' facilities must be sized and service phased in a manner that is consistent with the Southern California Association of Governments (SCAG) regional growth forecasts. This comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

CITY OF TORRANCE
COMMUNITY DEVELOPMENT DEPARTMENT

MICHELLE G. RAMIREZ
COMMUNITY DEVELOPMENT
DIRECTOR

LETTER A-3

September 16, 2024

VIA E-MAIL AND
FIRST CLASS MAIL

Amanda Acuna – Community Development Manager
1700 West 162nd Street
Gardena, CA 90247

RE: 1450 ARTESIA SPECIFIC PLAN PROJECT DEIR COMMENT

Dear Ms. Acuna,

The City of Torrance appreciates being notified on the release of the Draft Environmental Impact Report (DEIR) prepared for the 1450 Artesia Specific Plan Project (Project).
After careful review of the DEIR and Local Transportation Assessment (Appendix J2), the City of Torrance requests the following improvements for the intersection of Artesia Boulevard and Western Avenue to offset potential impacts: 1

- Install the following traffic signal equipment and appurtenances to the satisfaction of the City of Torrance Public Works Director: 2
  - Contactless Pedestrian Push Buttons
  - Pedestrian Countdown Heads
  - Signal head and backplates with Yellow Retroreflective Border
  - Video Detection System
  - Emergency Vehicle Preemption (EVP)
  - Battery Backup Unit
  - Rewire entire intersection
  - Remove and replace two damaged Type 15 traffic signal poles at the southwest and southeast corners
- Reconstruct the curb ramp at the southeast corner to achieve ADA compliance.

If there are any questions for the City of Torrance, please do not hesitate to contact Oscar Martinez, Planning Manager of the Community Development Department (OMartinez@TorranceCA.gov / 310.618.5990) or Shin Furukawa, Deputy Public Works Director (SFurukawa@TorranceCA.gov / 310.781.6900). 3

Sincerely,

Michelle G. Ramirez
Community Development Director

By _____
Oscar Martinez
Planning Manager

3031 Torrance Blvd. • Torrance, California 90503 • Telephone 310-618-5990 • Fax 310-618-5829
Visit Torrance's home page: http://www.TorranceCA.Gov

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Response to Comment Letter A-3

City of Torrance
Oscar Martinez
September 16, 2024

A-3.1 This comment is introductory in nature and identifies that the City of Torrance has reviewed the Draft EIR and Local Transportation Assessment. The comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

A-3.2 This comment requests traffic signal equipment and appurtenances, as well as the reconstruction of the curb ramp at the southeast corner to achieve ADA compliance, to the satisfaction of the City of Torrance Public Works Director. The comment specifically asks for the following:

- Contactless Pedestrian Push Buttons
- Pedestrian Countdown Heads
- Signal head and backplates with Yellow Retroreflective Border
- Video Detection System
- Emergency Vehicle Preemption (EVP)
- Battery Backup Unit
- Rewire entire intersection
- Remove and replace two damaged Type 15 traffic signal poles at the southwest and southeast corners

The analysis shown in Appendix J2 of the EIR demonstrates that the Project does not result in impacts to this intersection and to roadway segments, that would trigger any improvements to the equipment.. As such, no further response is required.

A-3.3 This comment provides contact information for the commenter. This comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

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STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY GAVIN NEWSOM, Governor

DEPARTMENT OF TRANSPORTATION
DISTRICT 7
100 S. MAIN STREET, MS 16
LOS ANGELES, CA 90012
PHONE (213) 897- 0673
FAX (213) 897-1337
TTY 711
www.dot.ca.gov

Making Conservation a California Way of Life

September 11, 2024

Amanda Acuna, Community Development Manager
City of Gardena
1700 West 162nd Street
Gardena, CA 90247

RE: 1450 Artesia Specific Plan Project–
Draft Environmental Impact Report
(DEIR)
SCH #2023060263
GTS #07-LA-2023-04590
LA 405/R 13.944

Dear Amanda Acuna,

Thank you for including the California Department of Transportation (Caltrans) in the environmental review process for the above referenced project. The Project seeks approval of the 1450 Artesia Specific Plan and proposes the construction and operation of a mixed-use development with a total building area of 268,000 square feet and an approximate height of 75 feet, including a self-storage use, a warehouse/distribution use, and an office/retail use. Associated improvements would include perimeter fencing, landscaping, lighting, exterior sidewalks, and pavement for parking. The Project would include 124 automobile parking stalls, including 25 EV capable parking spaces and 6 EVCS spaces (charging stations). 1

After reviewing the Draft EIR, Caltrans has the following comments:

Caltrans supports the Project as an infill development for self-storage, warehouse, and office/retail use to revitalize an area previously impacted by environmental contamination from industrial pollutants. With regard to active transportation, Figure 2-5 in the Draft EIR depicts a bike-share facility rendering from the May 2023 Draft 1450 Artesia Specific Plan. As the City of Gardena's Circulation Plan and Figure 3.10-2 from the DEIR identifies Normandie Avenue as a Class III bike facility, Caltrans would like to confirm if the Class III bike lane is up to standard, with regard to pavement markings and appropriate signage. Caltrans highly recommends developing under a Complete Streets framework to 2

"Provide a safe and reliable transportation network that serves all people and respects the environment"

encourage bike-share facilities within the lots/property of projects, and to prepare for the integration of a Class II (painted bike lane) and/or IV (separated bikeway) network, as encouraged by the City of Los Angeles 2035 Mobility Plan. Bicycle parking should be located as close to the main entrance as possible, including short-term visitor bike racks and long-term lockers or other secure facilities for employees and customers. 2 cont.

To provide pedestrian accommodations, Caltrans strongly recommends installing shade trees that will provide canopy over the public sidewalk along Artesia Boulevard. With active bus lines serving the Artesia Boulevard/Normandie Avenue intersection, and the regional Harbor Gateway Transit Center less than one mile to the east, the opportunity to enhance mobility of non-motorized users helps advance the active transportation efforts of regional agencies to achieve greenhouse gas (GHG) reduction. Additionally, Caltrans encourages the construction of a raised crosswalk within the Project's internal property connecting Artesia Boulevard to the project building. This design element would provide a safer and more comfortable crossing for those walking and using mobility devices. Should surface parking be built, it is advised that it does not face the street directly. The implementation of active frontage and landscaping against the sidewalk encourages recreational walking by providing a barrier for pedestrians. 3 4

Any transportation of heavy construction equipment and/or materials that requires the use of oversized transport vehicles on State Highways will require a Caltrans transportation permit. Caltrans recommends limiting construction traffic to off-peak periods to minimize the potential impact on State facilities. If construction traffic is expected to cause issues on any State facilities, please submit a construction traffic control plan detailing these issues for Caltrans' review. We look forward to the coordination of our efforts to ensure potential impacts to the highway facilities and traveling public are discussed and addressed before work begins. 5

If you have any questions, please contact project coordinator Frances Duong, at frances.duong@dot.ca.gov and refer to GTS #07-LA-2023-04590. 6

Sincerely,

Anthony Higgins

Anthony Higgins
Acting LDR/CEQA Branch Chief

Cc: State Clearinghouse

"Provide a safe and reliable transportation network that serves all people and respects the environment"

Response to Comment Letter A-4

Caltrans
Anthony Higgins
September 11, 2024

A-4.1 This comment is introductory in nature and defines the Project, as analyzed in the Draft EIR. This comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

A-4.2 This comment questions if the Class III bike lane along Normandie Avenue is up to standard and recommends developing the roadway under a Complete Streets framework to encourage bike-sharing facilities and to prepare for the integration of Class II and/or Class IV bike lane networks. The comment also requests that bicycle parking be located as close to the main entrance as possible. This design recommendation is being shared with decision-makers; however, this comment is not within the scope of the environmental analysis included in the Draft EIR. As such, no further response is required.

A-4.3 This comment recommends installing shade trees along Artesia Boulevard to enhance mobility of non-motorized users. The right-of-way along Artesia Boulevard, and the wall that has been installed beneath the ground surface to contain contamination on the Project site limits the ability to install shade trees. Additionally, this comment is not within the scope of the environmental analysis included in the Draft EIR. As such, no further response is required.

A-4.4 This comment recommends a raised crosswalk to connect the Project to Artesia Boulevard to ensure a safer and more comfortable crossing for those walking and using mobility devices. The comment also requests that surface parking not face the street directly and that landscaping along the sidewalks would encourage recreational walking. The Project includes a landscape buffer along Artesia Boulevard, as shown in Figure 2-6, Landscape Plan, of the Draft EIR. The raised crosswalk recommendation is being shared with decision-makers; however, this comment is not within the scope of the environmental analysis included in the Draft EIR. As such, no further response is required.

A-4.5 This comment states that if any heavy construction equipment and/or materials would require the use of oversized transport vehicles on State Highways, a permit from Caltrans must be obtained. Additionally, if any construction traffic is expected to cause issues on State Highways, a construction traffic control plan must be submitted to Caltrans. These comments and needs are understood. This comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

A-4.6 This comment provides contact information for the commenter. This comment does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

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LOZEAU DRURY LLP
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Via Email

August 27, 2024

Amanda Acuna, Community Development Manager
Community Development Department
City of Gardena
1700 West 162nd Street
Gardena, California 90247
aacuna@cityofgardena.org

Re: Comment on Draft Environmental Impact Report, 1450 Artesia Specific Plan (SCH No. 2023060263)

Dear Ms. Acuna,

This comment is submitted on behalf of Supporters Alliance for Environmental Responsibility ("SAFER") regarding the Draft Environmental Impact Report ("DEIR") prepared for the 1450 Artesia Specific Plan Project (SCH No. 2023060263), which proposes the construction of a mixed-use commercial/industrial development with a total building area of 268,000 square feet, located at the corner of Artesia Boulevard and Normandie Avenue in the City of Gardena ("Project"). 1

SAFER is concerned that the DEIR fails as an informational document and fails to impose all feasible mitigation measures to reduce the Project's impacts. SAFER requests that the Community Development Department address these shortcomings in a revised draft environmental impact report ("RDEIR") and recirculate the RDEIR prior to considering approvals for the Project. 2

SAFER reserves the right to supplement these comments during the administrative process. *Galante Vineyards v. Monterey Peninsula Water Management Dist.*, 60 Cal. App. 4th 1109, 1121 (1997). 3

Sincerely,

Brian B. Flynn
Lozeau Drury LLP

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Response to Comment Letter O-1

Lozeau Drury LLP
Brian B. Flynn
August 27, 2024

O-1.1 This comment is introductory and nature and does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-1.2 This comment asserts that the Draft EIR fails as an informational document and fails to impose all feasible mitigation measures to reduce the Project's impacts. The comment further states that because of shortcomings a revised Draft EIR should be prepared and recirculated. However, no specific deficiencies are identified by the commenter and no mitigation measures are recommended. This comment does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-1.3 This comment states that the Supporters Alliance for Responsibility reserves the right to supplement these comments during the administrative process. This comment is understood. However, the comment does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

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LETTER O-2

BLUM, COLLINS & HO LLP
ATTORNEYS AT LAW
AON CENTER
707 WILSHIRE BOULEVARD
SUITE 4880
LOS ANGELES, CALIFORNIA 90017
(213) 572-0400

September 12, 2024

Amanda Acuna
Community Development Manager
1700 West 162nd Street
Gardena, CA 90247

Via Email to:
aacuna@cityofgardena.org

Subject: Comments on 1450 Artesia Specific Plan Project EIR (SCH NO. 2023060263)

Dear Ms. Acuna,

Thank you for the opportunity to comment on the Environmental Impact Report (EIR) for the proposed 1450 Artesia Specific Plan Project. Please accept and consider these comments on behalf of Golden State Environmental Justice Alliance. Also, Golden State Environmental Justice Alliance formally requests to be added to the public interest list regarding any subsequent environmental documents, public notices, public hearings, and notices of determination for this project. Send all communications to Golden State Environmental Justice Alliance P.O. Box 79222 Corona, CA 92877. 1

1.0 Summary

The project proposes to demolish all existing onsite structures to accommodate the construction and operation of the 1450 Artesia Specific Plan on the 6.33 acre project site. The project proposes the development of a 268,000 gross square foot (GSF) building comprised of a 72,000 sf ground floor warehouse/distribution use with 10 truck/trailer loading docks and three levels of self-storage totaling 186,000 GSF with 1,480 storage units, and an office/retail use (a mezzanine totaling 10,000 GSF). The building has a maximum proposed height of 75 feet. The Project's proposed 72,000 GSF of warehouse/distribution use includes 10,000 GSF of potential future square footage to account for the potential future acquisition of a 0.23-acre parcel currently occupied by a single residential dwelling unit. Under the Specific Plan and a proposed Development Agreement, the parking lot area (approximately 36,000-square-foot (0.8-acre)) would be used periodically for City-sponsored outdoor events outside of the Project's warehouse/distribution component operating hours. The Project includes construction of a 200 GSF, non-habitable structure on the eastern side of the Project site for storage of special event-related materials by the City. The City anticipates hosting several types of medium-size special events, such as food trucks, farmer's 2

markets, car shows, live entertainment, food giveaways, community meetings, health fairs, and mobile vaccination events. The special events would be held approximately two to three times per month and include up to 250 attendees. 2

2.0 Project Description

The EIR does not include detailed building elevations, a detailed site plan, floor plans, or a conceptual grading plan. The basic components of a Planning Application include a detailed site plan, floor plan, conceptual grading plan, written narrative, and detailed elevations. The site plan provided in Figure 2-4: Site Plan has been edited for public review to remove meaningful information such as the general notes, parking requirements, floor area ratio, and site coverage. All of these basic items are necessary to conduct any type of analysis, and the EIR is inadequate as an informational document as it is not possible to ascertain any meaningful analysis based upon the information provided. 3

There are no building elevations provided, which are vital to review the maximum building heights. There are no grading plans provided and the EIR does not provide any information regarding the required quantity of cut/fill material during the grading phase of construction. Providing the complete grading plan to verify the earthwork quantities is vital as this directly informs the quantity of necessary truck hauling trips due to soil import/export during the grading phase of construction. A revised EIR must be prepared to include wholly accurate and unedited detailed floor plan, grading plan, building elevations, and project narrative for public review. 4

The EIR has also excluded copies of the 1450 Artesia Specific Plan document and Development Agreement document from the EIR. This does not comply with CEQA's requirements for adequate informational documents and meaningful disclosure (CEQA § 15121 and 21003(b)). Incorporation by reference (CEQA § 15150 (f)) is not appropriate as the 1450 Artesia Specific Plan document and Development Agreement document contribute directly to analysis of the problem at hand and is relied upon throughout the EIR to support less than significant findings. A revised EIR must be prepared to include the 1450 Artesia Specific Plan document and Development Agreement document for review, analysis, and comment by the public and decision makers. 5

3.1 Air Quality, 3.3 Energy, and 3.5 Greenhouse Gas Emissions

Please refer to attachments from SWAPE for a complete technical commentary and analysis.

The EIR does not include for analysis relevant environmental justice issues in reviewing potential impacts, including cumulative impacts from the proposed project. The EIR provides general information about CalEnviroScreen but does not provide meaningful analysis regarding project census tract and the health impacts of pollution. This is in conflict with CEQA Guidelines Section 15131 (c), which requires that "Economic, social, and particularly housing factors shall be considered by public agencies together with technological and environmental factors in deciding whether changes in a project are feasible to reduce or avoid the significant effects on the environment identified in the EIR. If information on these factors is not contained in the EIR, the information must be added to the record in some other manner to allow the agency to consider the factors in reaching a decision on the project." This is especially significant as the surrounding community is highly burdened by pollution. According to CalEnviroScreen 4.0[1], CalEPA's screening tool that ranks each census tract in the state for pollution and socioeconomic vulnerability. The proposed project's census tract (6037603200) is ranked in the 99th percentile for overall pollution burden, meaning the surrounding community bears the impact of multiple sources of pollution and is among the most polluted census tracts in the state. For example, the project census tract ranks in the 81st percentile for particulate matter (PM) 2.5 burden, 78th percentile for diesel PM, and 69th percentile for traffic impacts. All of these environmental factors are typically attributed to heavy car and truck activity in the area. While California has strict vehicle-emissions standards, exhaust from cars and trucks is the main source of air pollution in much of the state[2]. Fine particle pollution has been shown to cause many serious health effects, including heart and lung disease and exposure to PM 2.5 contributes to deaths across California[3]. The very small particles of diesel PM can reach deep into the lung, where they can contribute to a range of health problems. These include irritation to the eyes, throat and nose, heart and lung disease, and lung cancer[4].

6

The census tract also ranks in the 99th percentile for toxic releases. People living near facilities that emit toxic releases may breathe contaminated air regularly or if contaminants are released during an accident[5].

[1] CalEnviroScreen 4.0 https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40
[2] OEHHA Traffic https://oehha.ca.gov/calenviroscreen/indicator/traffic-density
[3] OEHHA Air Quality: PM 2.5 https://oehha.ca.gov/calenviroscreen/indicator/air-quality-pm25
[4] OEHHA Diesel Particulate Matter https://oehha.ca.gov/calenviroscreen/indicator/diesel-particulate-matter
[5] OEHHA Toxic Releases https://oehha.ca.gov/calenviroscreen/indicator/toxic-releases-facilities

The census tract ranks in the 91st percentile for solid waste facility impacts and 67th percentile for hazardous waste facility impacts. Solid waste facilities can expose people to hazardous chemicals, release toxic gases into the air (even after these facilites are closed), and chemicals can leach into soil around the facility and pose a health risk to nearby populations[6]. Hazardous waste generators and facilities contribute to the contamination of air, water and soil near waste generators and facilities can harm the environment as well as people[7]. 7

The census tract ranks above average in several areas that impact water quality. The census tract ranks in the 96th percentile for impaired waters. Water pollution can harm wildlife habitats and change the number and types of plants and animals in the environment[8]. When fish and shellfish are contaminated, people who eat them can be exposed to toxic substances[9]. The census tract also ranks in the 87th percentile for groundwater threats. People who live near contaminated groundwater may be exposed to chemicals moving from the soil into the air inside their homes[10]. 8

The census tract ranks in the 89th percentile for cleanup sites impacts. Cleanup sites are places that are contaminated with harmful chemicals and need to be cleaned up by the property owners or government[11]. People living near these sites are more likely to be exposed to chemicals from the sites than people living further away[12]. Some studies have shown that neighborhoods with cleanup sites are generally poorer and have more people of color than other neighborhoods[13]. 9

Further, the census tract is a diverse community including 34% Hispanic, 12% African-American, and 36% Asian-American residents, whom are especially vulnerable to the impacts of pollution. The community has a high rate of low educational attainment, meaning 31% of the census tract over age 25 has not attained a high school diploma, which is an indication that they may lack health insurance or access to medical care. The community has a high rate of poverty, meaning 33% of the households in the census tract have a total income before taxes that is less than the poverty level. Income can affect health when people cannot afford healthy living and working conditions, nutritious food and necessary medical care[14]. Poor communities are often 10

[6] OEHHA Solid Waste Facilities https://oehha.ca.gov/calenviroscreen/indicator/solid-waste-sites-and-facilities
[7] OEHHA Hazardous Waste Generators and Facilities https://oehha.ca.gov/calenviroscreen/indicator/hazardous-waste-generators-and-facilities
[8] OEHHA Impaired Waters https://oehha.ca.gov/calenviroscreen/indicator/impaired-water-bodies
[9] Ibid.
[10] OEHHA Groundwater Threats https://oehha.ca.gov/calenviroscreen/indicator/groundwater-threats
[11] OEHHA Cleanup Sites https://oehha.ca.gov/calenviroscreen/indicator/cleanup-sites
[12] Ibid.
[13] Ibid.
[14] OEHHA Poverty https://oehha.ca.gov/calenviroscreen/indicator/poverty

located in areas with high levels of pollution[15]. Poverty can cause stress that weakens the immune system and causes people to become ill from pollution[16]. Living in poverty is also an indication that residents may lack health insurance or access to medical care. Medical care is vital for this census tract as it ranks in the 66th percentile for incidence of cardiovascular disease and 68th percentile for incidence of asthma. The community has a high rate of linguistic isolation, meaning 77% of households speak little to no English and face further inequities as a result. 10

Additionally, the project census tract (6037603200) and the census tracts adjacent to the project site (6037603302 (north) and 6037291300 (east and south)) are identified as SB 535 Disadvantaged Communities[17]. The City's Environmental Justice Element of the General Plan[18] also identifies these census tracts as Disadvantaged Communities. None of these facts are discussed or presented for analysis in the EIR. This indicates that cumulative negative impacts of development and environmental impacts in the area are disproportionately impacting these communities. The EIR does not discuss that the surrounding area is a disadvantaged community and does not utilize this information in its analysis. The EIR has not considered the project's significant and unavoidable environmental impacts in relation to the SB 535/General Plan EJ status of the project census tract and surrounding area. The negative environmental, health, and quality of life impacts of the warehousing and logistics industry in the area have become distinctly inequitable. The severity of environmental impacts particularly on these Disadvantaged Communities must be included for analysis as part of a revised EIR. 11

The State of California lists three approved compliance modeling softwares[19] for non-residential buildings: CBECC-Com, EnergyPro, and IES VE. CalEEMod is not listed as an approved software. The CalEEMod modeling does not comply with the 2022 Building Energy Efficiency Standards and under-reports the project's significant Energy impacts and fuel consumption to the public and decision makers. Since the EIR did not accurately or adequately model the energy impacts in compliance with Title 24, it cannot conclude the project will generate less than significant impacts and a finding of significance must be made. A revised EIR with modeling using one of the approved software types must be prepared and circulated for public review in order to adequately analyze the project's significant environmental impacts. This is vital as the 12

[15] Ibid.
[16] Ibid.
[17] OEHHA SB 535 Census Tracts https://oehha.ca.gov/calenviroscreen/sb535
[18] Gardena Environmental Justice Element https://cityofgardena.org/wp-content/uploads/2022/12/Gardena_EJ-Element_FINAL-FOR-ADOPTION_with-APPENDICES.pdf
[19] California Energy Commission 2022 Energy Code Compliance Software https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-1

EIR utilizes CalEEMod as a source in its methodology and analysis, which is clearly not an approved software. 12

3.8 Land Use and Planning

The EIR does not provide any information regarding the buildout conditions of the City's General Plan. Notably, the horizon year of the City's General Plan and its associated EIR[20] is 2025. The project is proposed within one year of the horizon and buildout timeline of the prior environmental analysis. The EIR must be revised to provide a cumulative analysis discussion of projects approved since General Plan adoption and projects "in the pipeline" to determine if the project will exceed the City's General Plan buildout scenario. 13

Table 3.8-1. Consistency with 2020–2045 RTP/SCS Goals provides a misleading and erroneous consistency analysis with SCAG's 2020-2045 Connect SoCal RTP/SCS. Due to errors in modeling and modeling without supporting evidence, the proposed project has significant potential for inconsistency with Goal 5 to reduce greenhouse gas emissions and improve air quality, Goal 6 to support healthy and equitable communities, and Goal 7 to adapt to a changing climate. A revised EIR must be prepared to include a finding of significance due to these inconsistencies with SCAG's 2020-2045 Connect SoCal RTP/SCS. 14

The EIR does not provide substantial or meaningful evidence to support the claim that the project does not conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. A revised EIR must be prepared to provide a consistency analysis with all of the most updated versions of the General Plan objectives, goals, policies, and actions, including but not limited to the following: 15

1. Policy LU 1.8: Minimize through-traffic on residential streets.
2. LU Goal 2: Develop and preserve high quality commercial centers and clean industrial uses that benefit the City's tax base, create jobs and provide a full range of services to the residents and businesses.
3. LU Goal 3: Provide high quality, attractive and well-maintained commercial, industrial, and public environments that enhance the image and vitality of the City.
4. Policy ED 1.6: Discourage distribution centers that do not provide jobs or point-of-sale activities.

[20] https://cityofgardena.org/wp-content/uploads/2020/04/General-Plan-Update-2006-Final-EIR.pdf

5. DS 3.4: Support mixed-use developments that include adequate open space areas and a full range of site amenities.
6. DS Goal 4 Achieve high quality design for commercial uses.
7. DS 4.5: New or remodeled commercial structures and properties should be designed to reflect the City's architectural diversity, yet be compatible with nearby existing buildings.
8. DS 4.6: Promote pedestrian-friendly corridors by improving traffic and pedestrian safety and by providing pedestrian amenities such as benches and outdoor seating, potted plants, decorative paving, and detailed lighting elements along the street frontage.
9. DS 4.7: Encourage the use of entrance patios, courtyards, plazas, arcades, fountains, porches, tower elements, covered walks, and other design features and amenities in commercial areas.
10. DS 7.4: Screen or underground unsightly equipment cabinets, infrastructure support structures and equipment.

15

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Policies concludes the project is consistent with several goals and policies (including but not limited to: Policy LU 2.1, Policy LU 3.1, Policy LU 3.3, Policy LU 3.4, Policy LU 3.7, Policy LU 3.9, Policy DS 2.3, Policy DS 2.12, Policy DS 2.14, Policy DS 3.1, Policy DS 3.3, Policy DS 3.5, Policy DS 4.3, Policy DS 4.8, Policy DS 4.9, Policy DS 4.12, Policy DS 5.1, Policy DS 5.2, Policy DS 5.3, Policy DS 5.4, Policy DS 6.1, Policy DS 6.2, and Policy PS 1.7) due to implementation of the 1450 Artesia Specific Plan. However, the EIR has excluded a copy of the 1450 Artesia Specific Plan document from the EIR. This does not comply with CEQA's requirements for adequate informational documents and meaningful disclosure (CEQA § 15121 and 21003(b)). Incorporation by reference (CEQA § 15150 (f)) is not appropriate as the 1450 Artesia Specific Plan document contributes directly to analysis of the problem at hand and is relied upon throughout the EIR to support less than significant findings. A revised EIR must be prepared to include the 1450 Artesia Specific Plan document for review, analysis, and comment by the public and decision makers.

16

3.10 Transportation

The EIR concludes the industrial portion of the project meets the Transit Proximity Screening criteria within the City's SB 743 Implementation Transportation Analysis Updates[21] (City Guidelines) and has "screened out" the project from preparing a project-specific VMT analysis. The City Guidelines provide the following requirements regarding the TPA Screening Method:

17

[21] https://cityofgardena.org/wp-content/uploads/2021/08/VMT-Exhibit-A-SB-743-Transportation-Analysis-Updates.pdf

"This presumption may not be appropriate if the project:

- Has a Floor Area Ratio (FAR) of less than 0.75 (for office, retail, hotel and industrial projects) or less than 20 units per acre (for residential projects)"

17

The industrial portion of the project has a FAR of 0.26, which is less than the 0.75 threshold. Therefore, the industrial portion of the project does not meet the Transit Proximity Screening criteria and it must be included in a project-specific VMT analysis. Notably, the operational nature of industrial/warehouse uses involves high rates of truck/trailer/delivery van VMT due to traveling from large import hubs to regional distribution centers to smaller industrial parks and then to their final delivery destinations. Once employees arrive at work at the proposed project, they will conduct their jobs by driving delivery vans across the region as part of the daily operations as a distribution facility, which will drastically increase project-generated VMT. The project's truck/trailer and delivery van activity is unable to utilize public transit or active transportation and it is misleading to the public and decision makers to exclude this activity from VMT analysis. The project's total operational VMT generated is not consistent with the screening threshold and legislative intent of SB 743 to reduce greenhouse gas emissions by reducing VMT. A revised EIR must be prepared to reflect a quantified VMT analysis that includes all truck/trailer and delivery van activity.

18

Further, the EIR provides a misleading qualitative VMT analysis of the project's self-storage use. The EIR states that, "…it is assumed that someone will travel to a newly constructed typical self-storage because of its proximity to the area attraction, rather than the proposed self-storage fulfilling an unmet need. Typical self-storage most often can be presumed to reduce trip lengths when a new self-storage is introduced within a cluster of existing self-storages located near a local neighborhood. Thus, the impact to the transportation system would be negligible or reduced by the introduction of a new self-storage use to an area where people are already traveling and planning on storing goods. Self-storage units do not attract any new trips other than need of storage which is fulfilled by local storage units. While a specific market study for the proposed self-storage use was not conducted as part of this memorandum, a map showing the proximity of other similar self-storage facilities is provided as Exhibit 2. A half-mile buffer was placed around the eight existing self-storage facilities in the area and the Project to illustrate the lack of overlapping service area between the Project and the existing self-storage uses. As shown in Exhibit 2, the Project will reduce trip lengths by adding self-storage opportunities into the local area, reducing proximity to self-storage services for users. Therefore, in accordance with the City's VMT guidelines, it is assumed that the Project will result in a VMT reduction and support the goals of SB 743."

19

The EIR has not provided any meaningful or quantified evidence to support the conclusion that the self-storage project will reduce VMT and result in less than significant impacts. The EIR

utilizes uncertain language in stating that it is presumed that typical self-storage uses reduce VMT due to their location. Exhibit 2 within Appendix J1 depicts only two other self-storage uses in a half-mile of the project site, indicating that the project will attract new customers to the area and result in increased VMT. The EIR also does not cite a specific VMT Screening exemption to conclude the self-storage project will have less than significant impacts, which is notable as the EIR has also concluded it does not meet the criteria for any of the exemptions (Project Type Screening, Low VMT Area Screening, and Transit Proximity Screening). The EIR has not provided any meaningful or quantified evidence to support a less than significant finding and must be revised to include a quantified VMT analysis for the self-storage project. 19

The EIR also concludes that the Special Event component of the project is exempt via the Project Type Screening exemption for local-serving commercial projects less than 50,000 square feet. However, the EIR has not provided any meaningful evidence that the Special Events will generate less than significant VMT impacts. Notably, the Project Description states that, "The City anticipates hosting several types of medium-size special events, such as food trucks, farmer's markets, car shows, live entertainment, food giveaways, community meetings, health fairs, and mobile vaccination events. The special events would be held approximately two to three times per month and include up to 250 attendees." The type of activities held during the medium-size Special Events and quantity of events indicates that they are not local-serving commercial activities. Medium-size Special Events attract attendees beyond the City boundaries, especially the type of activities listed including car shows, giveaways, and live entertainment. The EIR has not provided any meaningful or quantified evidence to support a less than significant finding and must be revised to include a quantified VMT analysis for the Special Events component of the project. 20

The EIR has not adequately analyzed the project's potential to substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses; or the project's potential to result in inadequate emergency access. The EIR has excluded any specific truck/trailer turning exhibits from public review. There are no exhibits adequately depicting the available maneuvering and queueing space for trucks/trailers at the intersection of the project driveways and the adjacent streets. There are also no exhibits adequately depicting the onsite turning radius available for trucks maneuvering throughout the site. This is notable as several areas for potential conflicts between trucks/trailers, passenger vehicles, and pedestrians exist throughout the site. For example, there are six passenger car parking spaces and the City Storage Building located within the gated truck/trailer loading dock. These parking stalls may be in use at any time and restrict truck/trailer movement in the area. Pedestrians will access the City Storage Building within the gated court area and pedestrian access and safety in this area has not 21

been analyzed. The EIR must be revised to include a finding of significance as it has not provided any meaningful evidence or analysis to support a less than significant finding. 21

Additionally, the EIR has not provided any analysis of the available horizontal and vertical sight distance at the intersection of the project driveways and adjacent streets. Sight distance is the continuous length of street ahead visible to the driver. At unsignalized intersections, corner sight distance must provide a substantially clear line of sight between the driver of the vehicle waiting on the minor road (driveway) and the driver of an approaching vehicle. A revised EIR must be prepared with this analysis based on the American Association of State Highway and Transportation Officials (AASHTO) Stopping Sight Distance requirements. 22

4.2.11 Effects Found Not to Be Significant: Population and Housing

The EIR states that, "Based on the square footage of different uses that would be developed, the Project site is expected to support approximately 40 employees." However, the EIR does not provide a source calculation or methodology that resulted in the project's operations generating 40 employees. This does not comply with CEQA's requirements for meaningful disclosure. SCAG's Employment Density Study[22] provides the following applicable employment generation rates for Los Angeles County:

Light Manufacturing: 1 employee per 829 square feet
Other Retail/Service: 1 employee per 424 square feet
Office:1 employee per 319 square feet 23

Applying these ratios results in the following calculation:

Light Manufacturing: 72,000 sf / 829 sf = 87 employees

Other Retail/Service: 186,000 sf/ 424 sf = 439 employees

Office: 10,000 sf / 319 sf = 32 employees

Total: 558 employees

Utilizing SCAG's Employment Density Study ratios, the proposed project will generate 558 employees. The EIR utilizes uncertain and misleading language which does not provide any meaningful analysis of the project's population and employment generation. In order to comply

[22] SCAG Employment Density Study
http://www.mwcog.org/file.aspx?A=QTTlTR24POOOUIw5mPNzK8F4d8djdJe4LF9Exj6lXOU%3D

with CEQA's requirements for meaningful disclosure, a revised EIR must be prepared to provide an accurate estimate of employees generated by all uses of the proposed project. It must also provide demographic and geographic information on the location of qualified workers to fill these positions. 23

SCAG's Connect SoCal Demographics and Growth Forecast[23] notes that the City will add 2,800 jobs between 2016 - 2045. Utilizing SCAG's Employment Density Study calculation of 558 employees, the project represents 19.9% of the City's employment growth from 2016 - 2045. A single project accounting for this amount of the projected employment growth over 29 years represents a significant amount of growth. A revised EIR must be prepared to include this analysis, and also provide a cumulative analysis discussion of projects approved since 2016 and projects "in the pipeline" to determine if the project will exceed SCAG's employment growth forecast for the City. For example, other recent industrial projects such as Gardena Industrial Center[24] (251 employees) combined with the proposed project will generate 809 employees, which is 28.9% of the City's growth over 29 years accounted for by only two recent industrial projects. This total increases exponentially when other industrial and commercial development activity is added to the calculation. A revised EIR must be prepared to include this information for analysis, and also provide a cumulative analysis discussion of projects approved since General Plan adoption, 2016 (SCAG), and projects "in the pipeline" to determine if the proposed project will exceed the employment/population growth forecasts by SCAG and/or the City's General Plan. Additionally, a revised EIR must also provide demographic and geographic information on the location of qualified workers to fill these positions in order to provide an accurate environmental analysis. 24

4.2.14 Effects Found Not to Be Significant: Transportation

The EIR states that, "The Los Angeles County Fire Department would review the Project plans to ensure adequate emergency access in and around the Project site as part of the building plan check process. The plans would be adjusted in the event that the fire department identifies any deficiencies in access that could preclude emergency evacuation or emergency response." This does not comply with CEQA's requirements for adequate informational documents and meaningful disclosure (CEQA § 15121 and 21003(b)). The EIR has not provided any details regarding the County requirements for emergency access or meaningful analysis of the project's compliance or noncompliance with these requirements. Deferring this environmental analysis required by CEQA to the construction permitting phase is improper mitigation and does not 25

[23] SCAG Connect SoCal Demographics and Growth Forecast adopted September 3, 2020 https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocal_demographics-and-growth-forecast.pdf?1606001579

[24] https://ceqanet.opr.ca.gov/2022100279

comply with CEQA's requirement for meaningful disclosure and adequate informational documents. This is especially notable as the EIR states "the plans would be adjusted in the event that the fire department identifies any deficiencies," and these deficiencies and subsequent adjustments would not be available for review by the public and decision makers. A revised EIR must be prepared to include a finding of significance as the EIR has not provided any meaningful evidence to support a less than significant finding. 25

4.4 Significant Irreversible Changes and 4.5 Growth-Inducing Impacts

SCAG's Connect SoCal Demographics and Growth Forecast[25] notes that the City will add 2,800 jobs between 2016 - 2045. Utilizing SCAG's Employment Density Study calculation of 558 employees, the project represents 19.9% of the City's employment growth from 2016 - 2045. A single project accounting for this amount of the projected employment growth over 29 years represents a significant amount of growth. A revised EIR must be prepared to include this analysis, and also provide a cumulative analysis discussion of projects approved since 2016 and projects "in the pipeline" to determine if the project will exceed SCAG's employment growth forecast for the City. For example, other recent industrial projects such as Gardena Industrial Center[26] (251 employees) combined with the proposed project will generate 809 employees, which is 28.9% of the City's growth over 29 years accounted for by only two recent industrial projects. This total increases exponentially when other industrial and commercial development activity is added to the calculation. A revised EIR must be prepared to include this information for analysis, and also provide a cumulative analysis discussion of projects approved since General Plan adoption, 2016 (SCAG), and projects "in the pipeline" to determine if the proposed project will exceed the employment/population growth forecasts by SCAG and/or the City's General Plan. Additionally, a revised EIR must also provide demographic and geographic information on the location of qualified workers to fill these positions in order to provide an accurate environmental analysis. 26

A revised EIR must be prepared to include a cumulative analysis discussion here to demonstrate the impact of the proposed project in a cumulative setting. The EIR does not include any information regarding the buildout conditions of the City's General Plan in order to provide an adequate and accurate cumulative analysis. The revised EIR must provide the horizon year of the City's current adopted General Plan, the total developable building floor area analyzed within the applicable land use designation, and cumulative development since adoption of the General Plan 27

[25] SCAG Connect SoCal Demographics and Growth Forecast adopted September 3, 2020 https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocal_demographics-and-growth-forecast.pdf?1606001579
[26] https://ceqanet.opr.ca.gov/2022100279

to ensure that the proposed project is within the General Plan EIR's analysis, particularly since the EIR tiers from the General Plan EIR and its horizon year is 2025. 27

The EIR relies upon erroneous Energy modeling to determine that the project will meet sustainability requirements. As noted above, the EIR did not model the project's energy consumption in compliance with Title 24 modeling software. The EIR must be revised to include a finding of significance as it has not adequately or accurately analyzed the project's commitment of resources. 28

The EIR does not adequately discuss or and analyze the commitment of resources is not consistent with regional and local growth forecasts. As noted throughout this comment letter, the project represents a significant amount of growth in the City and accounts for a significant amount of the City's employment growth over 29 years (SCAG) and through the City's General Plan horizon year of 2025. The EIR has not provided an adequate or accurate cumulative analysis discussion here to demonstrate the impact of the proposed project in a cumulative setting. The EIR must be revised to include this information for analysis and also include a cumulative development analysis of projects approved since General Plan adoption, 2016 (SCAG), and projects "in the pipeline" to determine if the proposed project exceeds the General Plan buildout scenario and/or SCAG's growth forecasts. 29

5.0 Alternatives

The EIR is required to evaluate a reasonable range of alternatives to the proposed project which will avoid or substantially lessen any of the significant effects of the project (CEQA § 15126.6). The alternatives chosen for analysis include the CEQA required "No Project" alternative and only three others - Reduced Density Alternative, Self-Storage Only Alternative, and Truck-Storage Lot Alternative. The EIR does not evaluate a reasonable range of alternatives as only three alternatives beyond the required No Project alternative are analyzed. The EIR does not include an alternative that meets the project objectives and also eliminates all of the project's significant and unavoidable impacts. The EIR must be revised to include analysis of a reasonable range of alternatives and foster informed decision making (CEQA § 15126.6). This must include alternatives such as development of the site with a project that reduces all of the proposed project's significant and unavoidable impacts to less than significant levels. 30

Conclusion

For the foregoing reasons, GSEJA believes the EIR is flawed and a revised EIR must be prepared for the proposed project and circulated for public review. Golden State Environmental Justice 31

Alliance requests to be added to the public interest list regarding any subsequent environmental documents, public notices, public hearings, and notices of determination for this project. Send all communications to Golden State Environmental Justice Alliance P.O. Box 79222 Corona, CA 92877. 31

Sincerely,

Gary Ho
Blum, Collins & Ho LLP

Attachments:
1. SWAPE Technical Analysis

SWAPE Technical Consultation, Data Analysis and Litigation Support for the Environment

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September 11, 2024

Gary Ho
Blum, Collins & Ho LLP
707 Wilshire Blvd, Ste. 4880
Los Angeles, CA 90017

Subject: Comments on the 1450 Artesia Specific Plan Project (SCH No. 2023060263)

Dear Mr. Ho,

We have reviewed the July 2024 Draft Impact Environmental Report ("DEIR") for the 1450 Artesia Specific Plan Project ("Project") located in the City of Gardena ("City"). The Project proposes to construct 268,000-square-feet ("SF") of warehouse space and 124 parking spaces on the 6.33-acre site.

Our review concludes that the DEIR fails to adequately evaluate the Project's air quality and greenhouse gas impacts. As a result, emissions and health risk impacts associated with construction and operation of the proposed Project may be underestimated and inadequately addressed. A revised Environmental Impact Report ("EIR") should be prepared to adequately assess and mitigate the potential air quality and greenhouse gas impacts that the project may have on the environment.

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Air Quality

Failure to Provide Complete CalEEMod Output Files

Land use development projects under the California Environmental Quality Act ("CEQA") typically evaluate air quality impacts and calculate potential criteria air pollutant emissions using the California Emissions Estimator Model ("CalEEMod").[1] CalEEMod provides recommended default values based on site-specific information, such as land use type, meteorological data, total lot acreage, project type and typical equipment associated with project type. If more specific project information is known, the user can change the default values and input project-specific values, but CEQA requires that such changes be justified by substantial evidence. Once all of the values are inputted into the model, the Project's construction and operational emissions are calculated, and "output files" are generated. These output

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[1] "CalEEMod User's Guide." CAPCOA, May 2021, *available at:* https://www.aqmd.gov/caleemod/user's-guide.

files disclose to the reader what parameters are used in calculating the Project's air pollutant emissions and demonstrate which default values are changed. Justifications are provided for the selected values.

According to the DEIR, CalEEMod Version 2022.1 is relied upon to estimate Project emissions (p. 3.1-1). In the 2022.1 version, the "User Changes to Default Data" table no longer provides the quantitative counterparts to the changes to the default values (see excerpt below) (Appendix B-1, pp. 170, 171):

8. User Changes to Default Data

Screen	Justification
Land Use	Building footprint acreage for Mixed use stacking calls for only the highest default lot acreage and to zero out the other uses. The traffic analysis uses General Light Industry for the industrial use for the Project. However, since CalEEMod limits General Light Industry to 50 ksqft, and trip generation and fleet mixes are manually entered, Unrefrigerated Warehouse was used for this analysis. Landscaped area was put under the parking lot and applies to the whole Project site.
Construction: Construction Phases	per construction questionnaire
Construction: Trips and VMT	Based on client provided information and the near by concrete and asphalt waste and recycling facilities. Exact waste and recycling facilities to be used are not determined yet, so a conservative estimate was used for 30 miles.
Operations: Vehicle Data	All project truck trips (40 trucks/day) placed on General Heavy Industrial (Industrial, 72 KSF) land use. All auto trips (457 daily trips) for daily operations (excluding special events) placed on General Office land use. Special event trips (220 trips) are placed on the parking lot land use and assume the maximum trips on the day of an event.
Operations: Fleet Mix	General Heavy Industrial (72 ksf, first land use in table) represents all truck trips, while General Office Building represents all auto trips for daily operations. Special event trips are placed on the parking lot land use.
Operations: Refrigerants	Added refrigerant for industrial warehouse
Construction: Dust From Material Movement	no export or import will occur as onsite earthwork is balanced

Previous CalEEMod Versions, such as 2020.4.0, include the specific numeric changes to the model's default values (see example excerpt below): 33

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	167.00
tblConstructionPhase	PhaseEndDate	11/22/2023	8/25/2023
tblConstructionPhase	PhaseEndDate	9/27/2023	6/30/2023
tblConstructionPhase	PhaseEndDate	10/25/2023	7/28/2023
tblConstructionPhase	PhaseStartDate	10/26/2023	7/29/2023
tblConstructionPhase	PhaseStartDate	9/28/2023	7/1/2023
tblLandUse	LandUseSquareFeet	160,000.00	160,371.00
tblLandUse	LandUseSquareFeet	119,000.00	41,155.00
tblLandUse	LotAcreage	3.67	3.68
tblLandUse	LotAcreage	2.73	2.74

The output files associated with CalEEMod Version 2022.1 fail to present the exact parameters used to calculate Project emissions. To remedy this issue, the DEIR should have provided access to the model's ".JSON" output files, which allow third parties to review the model's revised input parameters.[2] Without access to the complete output files, including the specific numeric changes to the default values, we cannot verify that the DEIR's air modeling and subsequent analysis is an accurate reflection of the proposed Project. As a result, a revised EIR should be prepared to include an updated air quality analysis

[2] "Video Tutorials for CalEEMod Version 2022.1." CAPCOA, May 2022, *available at:* https://www.caleemod.com/tutorials.

that correctly provides the complete output files for CalEEMod Version 2022.1, or includes an updated air model using an older release of CalEEMod.[3]

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Unsubstantiated Input Parameters Used to Estimate Project Emissions

When reviewing the Project's CalEEMod output files, provided in the Air Quality Analysis ("AQ Report") as Appendix B-1 to the DEIR, we were able to identify several model inputs that are inconsistent with information disclosed in the DEIR. The Project's construction and operational emissions may consequently be underestimated. A revised EIR should be prepared to include an updated air quality analysis that adequately evaluates the impacts that construction and operation of the Project will have on local and regional air quality.

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Failure to Consider Potential Cold Storage Requirements

Review of the CalEEMod output files demonstrates that the "1450 Artesia" model includes 72,000-SF of the "Unrefrigerated Warehouse-No Rail" land use (see excerpt below) (Appendix B-1, pp. 45).

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	72.0	1000sqft	0.00	72,000	0.00	—	—	Industrial Warehouse
General Office Building	10.0	1000sqft	0.00	10,000	0.00	—	—	—
Parking Lot	4.88	Acre	4.88	0.00	78,076	—	—	—
Industrial Park	186	1000sqft	0.00	186,000	0.00	—	—	Self Storage

The AQ Report's model does not include any refrigerated warehouse space. Regarding refrigerated warehouse space the DEIR states:

> "Energy consumption consists of emissions from Project consumption of electricity and natural gas. Although the Project is a speculative warehouse, the analysis conservatively assumed a worst-case scenario that total building area of the warehouse would be refrigerated" (p. 3.5-28).

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The DEIR claims to assume a worst-case scenario; however, the AQ Report does not reflect this assumption as it models the entirety of the warehouse space as unrefrigerated. According to the South Coast Air Quality Management District ("SCAQMD"), "CEQA requires the use of 'conservative analyses to afford 'fullest possible protection of the environment.'"[4] The DEIR must account for the use of refrigerated cold storage space on the site. An updated model should be prepared to include the maximum refrigerated space to account for the additional emissions that refrigeration requirements may generate.

Refrigerated warehouses release more criteria air pollutant and GHG emissions when compared to unrefrigerated land uses. Warehouses equipped with cold storage, such as refrigerators and freezers,

[3] "CalEEMod Version 2020.4.0." CAPCOA, May 2021, *available at:* http://www.aqmd.gov/caleemod/download-model.

[4] "Warehouse Truck Trip Study Data Results and Usage" Presentation. SCAQMD Inland Empire Logistics Council, June 2014, *available at*: http://www.aqmd.gov/docs/default-source/ceqa/handbook/high-cube-warehouse-trip-rate-study-for-air-quality-analysis/final-ielc_6-19-2014.pdf?sfvrsn=2.

are known to consume more energy when compared to warehouses without cold storage.[5] Additionally, warehouses with cold storage typically require refrigerated trucks, which are known to idle for much longer when compared to unrefrigerated hauling trucks.[6] According to a July 2014 *Warehouse Truck Trip Study Data Results and Usage* presentation prepared by the SCAQMD hauling trucks that require refrigeration result in greater truck trip rates when compared to non-refrigerated hauling trucks.[7]

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By failing to account for any potential cold storage requirements, the model may underestimate the Project's operational emissions and should not be relied upon to determine Project significance. A revised EIR should be prepared to account for the additional refrigerated warehouse needs by the Project's future tenants.

Unsubstantiated Changes to Individual Construction Phase Lengths

Review of the CalEEMod output files demonstrates that the "1450 Artesia" model includes changes to the default construction schedule (see excerpt below) (Appendix B-1, pp. 170, 171).

8. User Changes to Default Data

Screen	Justification
Land Use	Building footprint acreage for Mixed use stacking calls for only the highest default lot acreage and to zero out the other uses. The traffic analysis uses General Light Industry for the industrial use for the Project. However, since CalEEMod limits General Light Industry to 50 ksqft, and trip generation and fleet mixes are manually entered, Unrefrigerated Warehouse was used for this analysis. Landscaped area was put under the parking lot and applies to the whole Project site.
Construction: Construction Phases	per construction questionnaire
Construction: Trips and VMT	Based on client provided information and the near by concrete and asphalt waste and recycling facilities. Exact waste and recycling facilities to be used are not determined yet, so a conservative estimate was used for 30 miles.
Operations: Vehicle Data	All project truck trips (40 trucks/day) placed on General Heavy Industrial (Industrial, 72 KSF) land use. All auto trips (457 daily trips) for daily operations (excluding special events) placed on General Office land use. Special event trips (220 trips) are placed on the parking lot land use and assume the maximum trips on the day of an event.
Operations: Fleet Mix	General Heavy Industrial (72 ksf, first land use in table) represents all truck trips, while General Office Building represents all auto trips for daily operations. Special event trips are placed on the parking lot land use.
Operations: Refrigerants	Added refrigerant for industrial warehouse
Construction: Dust From Material Movement	no export or import will occur as onsite earthwork is balanced

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As previously mentioned, the CalEEMod User's Guide requires any changes to model defaults be justified.[8] As stated in the "User Changes to Default Data" table, the justification provided for these changes is:

> "per construction questionnaire" (Appendix B-1, pp. 170).

[5] "Warehouses." Business Energy Advisor, *available at*: https://ouc.bizenergyadvisor.com/article/warehouses.
[6] "Estimation of Fuel Use by Idling Commercial Trucks." Transportation Research Record Journal of the Transportation Research Board, January 2006, p. 8, *available at:* https://www.researchgate.net/publication/245561735_Estimation_of_Fuel_Use_by_Idling_Commercial_Trucks.
[7] "Warehouse Truck Trip Study Data Results and Usage" Presentation. SCAQMD Mobile Source Committee, July 2014, *available at:* http://www.aqmd.gov/docs/default-source/ceqa/handbook/high-cube-warehouse-trip-rate-study-for-air-quality-analysis/finaltrucktripstudymsc072514.pdf?sfvrsn=2, p. 7, 9.
[8] "CalEEMod User's Guide." CAPCOA, May 2021, *available at:* https://www.aqmd.gov/caleemod/user's-guide, p. 1, 14.

As a result of these changes, the model includes the following construction schedule (see excerpt below) (Appendix B-1, pp. 152):

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase
Demolition	Demolition	6/1/2024	8/31/2024	5.00	65.0
Site Preparation	Site Preparation	9/1/2024	9/29/2024	5.00	20.0
Grading	Grading	10/2/2024	12/29/2024	5.00	63.0
Building Construction	Building Construction	1/1/2025	10/31/2025	5.00	218
Paving	Paving	12/1/2025	12/31/2025	5.00	23.0
Architectural Coating	Architectural Coating	10/2/2025	12/31/2025	5.00	65.0

Regarding the anticipated construction duration, the DEIR states:

> "Construction of the proposed Project is expected to last approximately 18 months beginning in the Spring of 2024 and ending in the fall of 2025" (p. 2-7).

Furthermore, the DEIR provides the following construction schedule (see excerpt below) (p. 2-7):

Table 2-1. Construction Phasing

Phase Number	Construction Phase	Number of Days
1	Demolition	66
2	Site Preparation	21
3	Grading	65
4	Building Construction	219
5	Architectural Coating (will overlap Phase 4 by approximately 1 month)	65
6	Paving (will overlap Phase 5 by approximately 1 month)	22

Source: Appendix B1.

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However, the changes to the individual construction phase lengths remain unsubstantiated. While the DEIR justifies a total length of Project construction of 18 months, the DEIR fails to provide an adequate source for the individual construction phase lengths outlined in table above. Namely, the DEIR cites its own appendix as the source of these changes. Until a proper source is provided, the model should have included proportionately altered individual phase lengths to match the proposed construction duration of 18 months.[9]

The construction schedule included in the model presents an issue, as the construction emissions are improperly spread out over a longer period of time for some phases, but not for others. According to the CalEEMod User's Guide, each construction phase is associated with different emissions activities (see excerpt below).[10]

[9] See Attachment A for proportionately altered construction schedule.
[10] "CalEEMod User's Guide." CAPCOA, May 2021, *available at:* https://www.aqmd.gov/caleemod/user's-guide, p. 32.

Demolition involves removing buildings or structures.

Site Preparation involves clearing vegetation (grubbing and tree/stump removal) and removing stones and other unwanted material or debris prior to grading.

Grading involves the cut and fill of land to ensure that the proper base and slope is created for the foundation.

Building Construction involves the construction of the foundation, structures and buildings.

Architectural Coating involves the application of coatings to both the interior and exterior of buildings or structures, the painting of parking lot or parking garage striping, associated signage and curbs, and the painting of the walls or other components such as stair railings inside parking structures.

Paving involves the laying of concrete or asphalt such as in parking lots, roads, driveways, or sidewalks.

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By disproportionately altering and extending some of the individual construction phase lengths without proper justification, the model assumes there are a greater number of days to complete the construction activities required by the prolonged phases. As a result, there will be less construction activities required per day and, consequently, less pollutants emitted per day. Until we are able to verify the revised construction schedule, the model may underestimate the peak daily emissions associated with some phases of construction and should not be relied upon to determine Project significance.

Unsubstantiated Changes to Daily Vehicle Trip Rates

Review of the CalEEMod output files demonstrates that the "1450 Artesia" model includes changes to the default operational daily vehicle trip rates (see excerpt below) (Appendix B-1, pp. 170, 171).

8. User Changes to Default Data

Screen	Justification
Land Use	Building footprint acreage for Mixed use stacking calls for only the highest default lot acreage and to zero out the other uses. The traffic analysis uses General Light Industry for the industrial use for the Project. However, since CalEEMod limits General Light Industry to 50 ksqft, and trip generation and fleet mixes are manually entered, Unrefrigerated Warehouse was used for this analysis. Landscaped area was put under the parking lot and applies to the whole Project site.
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Operations: Refrigerants	Added refrigerant for industrial warehouse
Construction: Dust From Material Movement	no export or import will occur as onsite earthwork is balanced

37

The "User Changes to Default Data" table above shows that the justification provided for these changes is:

> "All project truck trips (40 trucks/day) placed on General Heavy Industrial (Industrial, 72 KSF) land use. All auto trips (457 daily trips) for daily operations (excluding special events) placed on General Office land use. Special event trips (220 trips) are placed on the parking lot land use and assume the maximum trips on the day of an event" (Appendix B-1, pp. 171).

The model claims that According to the Vehicle Miles Traveled Assessment ("VMT Assessment"), provided as Appendix J1 to the DEIR, the Project is expected to generate 351 "General Light Industrial," 266 "Mini-Warehouse," and 108 "General Office Building" daily vehicle trips (see excerpt below) (p. 3, Table 1).

Table 1: Project Trip Generation

ITE Code	Land Use	Size	Units	Daily Trips	AM Peak			PM Peak		
					In	Out	Total	In	Out	Total
Trip Generation Rates*										
110	General Light Industrial	-	KSF	4.870	0.651	0.089	0.74	0.091	0.559	0.65
151	Mini-Warehouse	-	Storage Units (100s)	17.960	0.617	0.593	1.21	0.840	0.840	1.68
710	General Office Building	-	KSF	10.840	1.338	0.182	1.52	0.245	1.195	1.44
Trip Generation Estimates										
110	General Light Industrial	72.00	KSF	351	47	6	53	7	40	47
151	Mini-Warehouse	14.80	Storage Units (100s)	266	9	9	18	12	12	24
710	General Office Building	10.00	KSF	108	13	2	15	2	12	14
Total Proposed Project Trips				**725**	**69**	**17**	**86**	**21**	**64**	**85**
Existing Land Use Trips**				147	3	0	3	9	8	17
Net Proposed Project Trips				**578**	**66**	**17**	**83**	**12**	**56**	**68**

* Source: Institute of Transportation Engineers Trip Generation Manual, 11th Edition.
** Source: Existing counts collected May 2022.

The Project's model should have consequently included trip rates that reflect the estimates calculated in the VMT Assessment. However, review of the CalEEMod output files demonstrates that the "1450 Artesia" model includes unsubstantiated land use distributions for daily vehicle trips (see excerpt below) (Appendix B-1, pp. 158, 159).

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	75.0	75.0	75.0	27,375	3,000	3,000	3,000	1,095,000
General Office Building	650	650	650	237,250	6,027	6,027	6,027	2,199,735
Parking Lot	220	220	220	80,296	2,040	2,040	2,040	744,493
Industrial Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

The VMT Assessment estimates 617 total industrial-related daily trips generated[11] while the model includes 75 daily trips for the "Unrefrigerated Warehouse-No Rail" land use. The industrial vehicle trip rates inputted into the model are underestimated when compared to the VMT Assessment. Consequently, the model is inconsistent with the information provided by the DEIR and associated documents.

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[11] *Calculated:* 351 "General Light Industrial" daily trips + 266 "Mini-Warehouse" daily trips = 617 total industrial-related daily trips.

CalEEMod uses the operational vehicle trip rates to calculate the emissions associated with the operational on-road vehicles.[12] By including underestimated industrial vehicle trips daily vehicle trips, the model fails to match the information provided by the DEIR and its appendices, and it potentially underestimates the Project's mobile-source operational emissions. Until this gap in information is clarified, the model should not be relied upon to determine Project significance.

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Unsubstantiated Changes to Operational Fleet Mix Values

Review of the CalEEMod output files demonstrates that the "1450 Artesia" model includes changes to the default operational vehicle fleet mix percentages (see excerpt below) (Appendix B-1, pp. 170, 171).

8. User Changes to Default Data

Screen	Justification
Land Use	Taken from site plan
Construction: Construction Phases	Client Provided schedule
Construction: Off-Road Equipment	Client provided equipment list for Site Preparation, Grading, Building Construction and Paving. Off-road truck modeled represents water truck for grading and building construction. Off-road truck for Paving represents cement truck Default CalEEMod equipment used for demolition and Architectural Coating due to lack of client specific equipment.
Construction: Trips and VMT	Export material travel distance is 1-mile Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trips taken from Trip Generation Assessment
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Energy Use	Per Client data, natural gas will not be utilized
Operations: Water and Waste Water	Client Provided water usage total of 1,720,975 gallons/year
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater

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As stated in the "User Changes to Default Data" table, the justification provided for these changes is:

> "General Heavy Industrial (72 ksf, first land use in table) represents all truck trips, while General Office Building represents all auto trips for daily operations. Special event trips are placed on the parking lot land use" (Appendix B-1, pp. 171).

The changes to the model's operational fleet mix values, however, remain unsubstantiated. The output files for CalEEMod 2022.1 do not present the numeric changes to any model defaults. Changes to fleet mix percentages are not mentioned outside of the "User Changes to Default Data" table. Until the DEIR verifies the breakdown of heavy-heavy duty ("HHD"), medium-heavy duty ("MHD"), light-heavy duty ("LHD1, LDH2") trucks used by the model, we cannot verify that these values are accurate and consistent with the information provided by the DEIR and associated documents.[13]

[12] "CalEEMod User's Guide." CAPCOA, May 2021, *available at:* https://www.aqmd.gov/caleemod/user's-guide, p. 36.
[13] "CalEEMod User's Guide." CAPCOA, May 2021, *available at:* https://www.aqmd.gov/caleemod/user's-guide, p. 38.

CalEEMod uses operational vehicle fleet mix percentages to calculate the Project's operational emissions associated with on-road vehicles.[14] By including several unsubstantiated changes to the default operational vehicle fleet mix percentages, the model may underestimate the Project's mobile-source operational emissions and should not be relied upon to determine Project significance.

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Updated Analysis Indicates a Potentially Significant Air Quality Impact

To more accurately represent the Project's construction-related emissions, we prepared an updated construction CalEEMod model, using the Project-specific information provided by the DEIR. In our updated model, we proportionately altered the construction phase length values and omitted the unsubstantiated changes to the operational vehicle data and fleet mix values. All other changes remained consistent with the DEIR's model. [15]

Our updated analysis estimates that the Project's reactive organic gases ("ROG") emissions exceed the applicable SCAQMD threshold of 75 pounds per day ("lbs/day"), as referenced by the DEIR (p. 3.1-30; Table 3.1-9) (see table below).

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SWAPE Criteria Air Pollutant Emissions

Construction	**ROG** (lbs/day)
DEIR	39.29
SWAPE	102
% Increase	160%
SCAQMD Threshold	**75**
Exceeds?	**Yes**

Construction-related ROG emissions, as estimated by SWAPE, increase by approximately 160% and exceed the applicable SCAQMD significance threshold. Our model demonstrates that the Project would result in a potentially significant air quality impact that was not previously identified or addressed by the DEIR. A revised EIR should be prepared to adequately assess and mitigate the potential air quality impacts that the Project may have on the environment.

Disproportionate Health Risk Impacts of Warehouses on Surrounding Communities

Upon review of the DEIR, we have determined that the development of the proposed Project may contribute to disproportionate health risk impacts that warehouses pose on community members living, working, and going to school within the immediate area of the Project site. According to the SCAQMD:

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[14] "CalEEMod User's Guide." CAPCOA, May 2021, *available at:* https://www.aqmd.gov/caleemod/user's-guide, p. 36.
[15] See Attachment B for SWAPE's updated CalEEMod model.

> "Those living within a half mile of warehouses are more likely to include communities of color, have health impacts such as higher rates of asthma and heart attacks, and a greater environmental burden."[16]

In particular, the SCAQMD found that more than 2.4 million people live within a half mile radius of at least one warehouse, and that those areas not only experience increased rates of asthma and heart attacks, but are also disproportionately Black and Latino communities below the poverty line.[17] Another study similarly indicates that "neighborhoods with lower household income levels and higher percentages of minorities are expected to have higher probabilities of containing warehousing facilities."[18] Additionally, a report authored by the Inland Empire-based People's Collective for Environmental Justice and University of Redlands states:

> "As the warehouse and logistics industry continues to grow and net exponential profits at record rates, more warehouse projects are being approved and constructed in low-income communities of color and serving as a massive source of pollution by attracting thousands of polluting truck trips daily. Diesel trucks emit dangerous levels of nitrogen oxide and particulate matter that cause devastating health impacts including asthma, chronic obstructive pulmonary disease (COPD), cancer, and premature death. As a result, physicians consider these pollution-burdened areas 'diesel death zones.'"[19]

It is evident that the continued development of industrial warehouses within these communities poses a significant environmental justice challenge. However, the acceleration of warehouse development is only increasing despite the consequences on public health. The Inland Empire alone is adding 10 to 25 million SF of new industrial space each year.[20]

Los Angeles County, the setting of the proposed Project, has long borne a disproportionately high pollution burden[21]. When using CalEnviroScreen 4.0, CalEPA's screening tool that ranks each census

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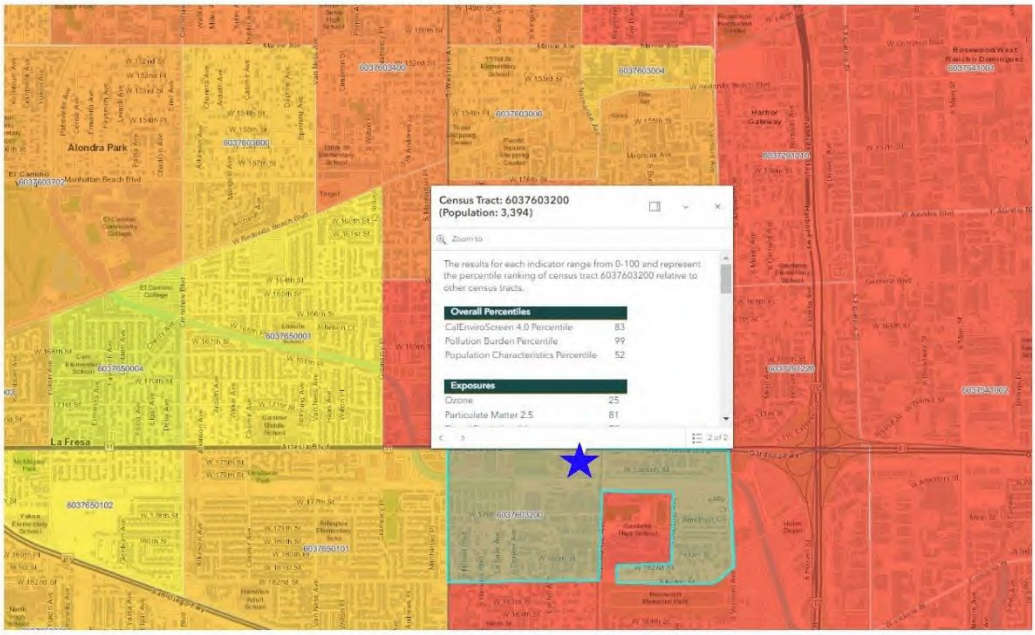
[16] "South Coast AQMD Governing Board Adopts Warehouse Indirect Source Rule." SCAQMD, May 2021, *available at:* http://www.aqmd.gov/docs/default-source/news-archive/2021/board-adopts-waisr-may7-2021.pdf?sfvrsn=9.
[17] "Southern California warehouse boom a huge source of pollution. Regulators are fighting back." Los Angeles Times, May 2021, *available at:* https://www.latimes.com/california/story/2021-05-05/air-quality-officials-target-warehouses-bid-to-curb-health-damaging-truck-pollution.
[18] "Location of warehouses and environmental justice: Evidence from four metros in California." Metro Freight Center of Excellence, January 2018, *available at:* https://www.metrans.org/assets/research/MF%201.1g_Location%20of%20warehouses%20and%20environmental%20justice_Final%20Report_021618.pdf, p. 21.
[19] "Warehouses, Pollution, and Social Disparities: An analytical view of the logistics industry's impacts on environmental justice communities across Southern California." People's Collective for Environmental Justice, April 2021, *available at:* https://earthjustice.org/sites/default/files/files/warehouse_research_report_4.15.2021.pdf, p. 4.
[20] "2020 North America Industrial Big Box Review & Outlook." CBRE, 2020, *available at:* https://www.cbre.com/-/media/project/cbre/shared-site/insights/local-responses/industrial-big-box-report-inland-empire/local-response-2020-ibb-inland-empire-overview.pdf, p. 2.
[21] "Equity and Resilience Briefing." Los Angeles Countywide Sustainability Plan, October 2018, *available at:* https://ourcountyla.lacounty.gov/wp-content/uploads/2018/11/Our-County-Equity-and-Resilience-Briefing_For-Web.pdf, p. 23.

tract in the State for pollution and socioeconomic vulnerability, we found that the Project's census tract is in the 99th percentile of most polluted census tracts in the State (see excerpt below).[22]



Furthermore, the Data Visualization Tool for Mates V, a monitoring and evaluation study conducted by SCAQMD, demonstrates that the County already exhibits a heightened residential carcinogenic risk from exposure to air toxics.[23] Specifically, the location of the Project site is in the 87th percentile of highest cancer risks in the South Coast Air Basin, with a cancer risk of 587 in one million (see excerpt below).[24]

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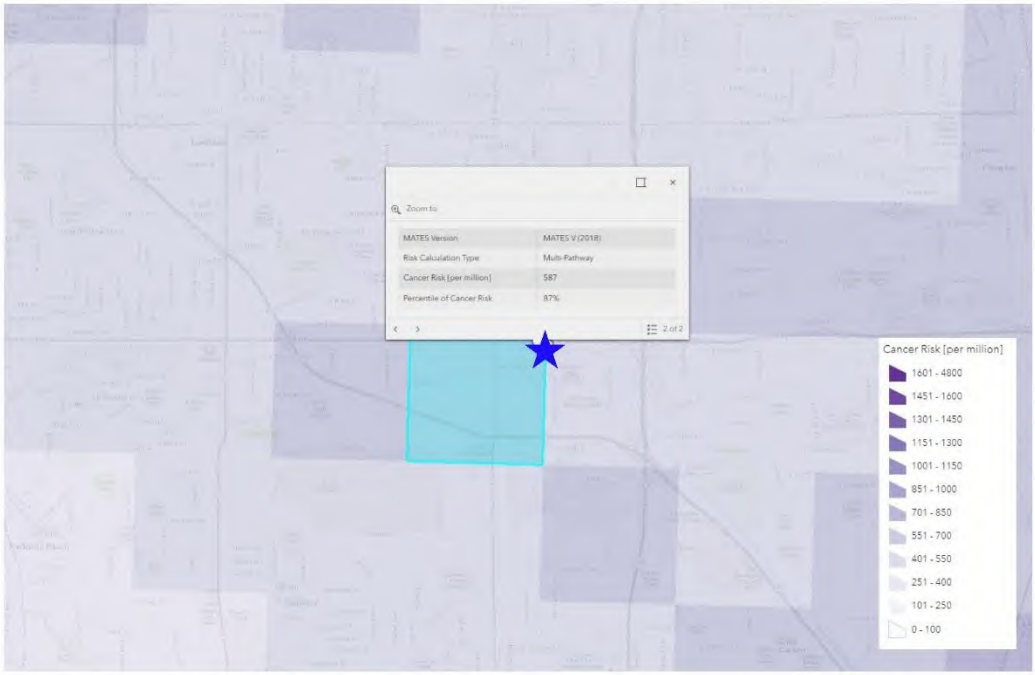
[22] "CalEnviroScreen 4.0." California Office of Environmental Health Hazard Assessment (OEHHA), October 2021, *available at:* https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40, census tract #6071002204.
[23] "Residential Air Toxics Cancer Risk Calculated from Model Data in Grid Cells." MATES V, 2018, *available at:* https://experience.arcgis.com/experience/79d3b6304912414bb21ebdde80100b23/page/Main-Page/?views=Click-tabs-for-other-data%2CGridded-Cancer-Risk; see also: "MATES V Multiple Air Toxics Exposure Study." SCAQMD, *available at:* http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v.
[24] "Gridded Cancer Risk." SCAQMD, *available at:* https://experience.arcgis.com/experience/79d3b6304912414bb21ebdde80100b23/page/Main-Page/?data_id=dataSource_112-7c8f2a4db79b4a918d46b4e8985a112b%3A20315&views=Click-tabs-for-other-data%2CGridded-Cancer-Risk.



Additionally, according to CalEnviroScreen's SB 535 Disadvantaged Communities Map, the Project site is located in a designated disadvantaged community (see excerpt below).[25]

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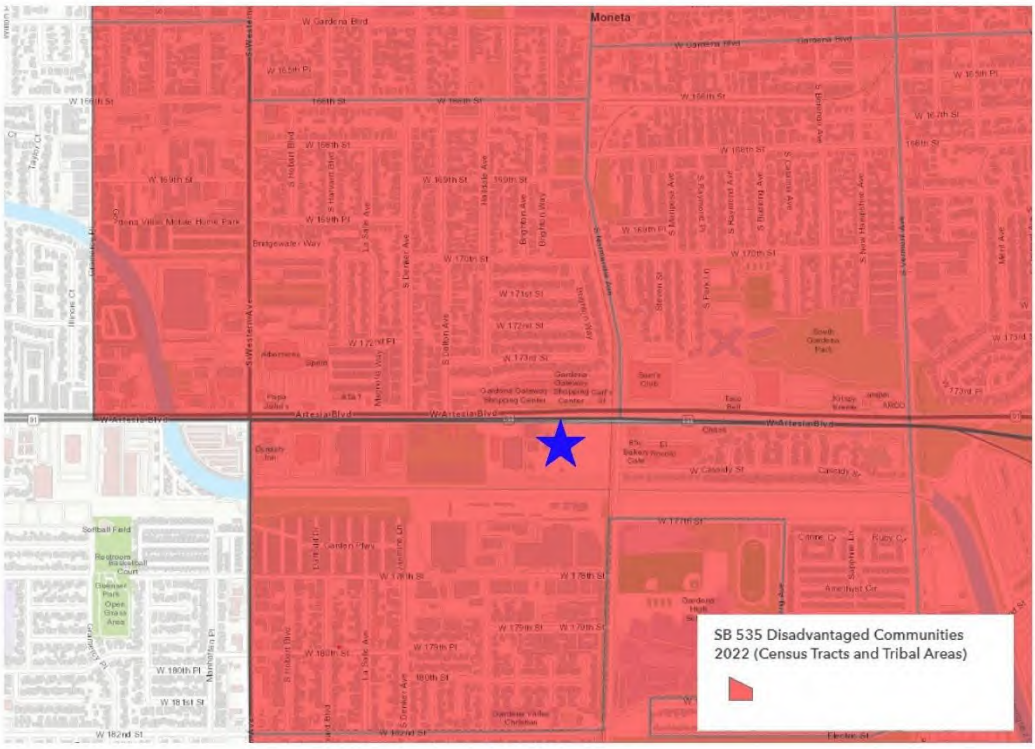
[25] "SB 535 Disadvantaged Communities (2022 Update)." California Environmental Protection Agency, *available at:* https://experience.arcgis.com/experience/1c21c53da8de48f1b946f3402fbae55c/page/SB-535-Disadvantaged-Communities/



SB 535 provides funding for development projects that provide a benefit to disadvantaged communities. CalEPA has been given the responsibility for identifying those communities based on "geographic, socioeconomic, public health, and environmental hazard criteria."[26] As the Project site is within a disadvantaged community, and the Project's census tract exhibits a high cancer risk, the proposed Project would contribute to the disproportionate health impacts warehouses impose on nearby residents.

The proposed Project may exacerbate disproportionate health risks for community members within the immediate area, a concern underscored by the mandates of SB 1000. SB 1000, enacted to address environmental justice considerations, requires local governments to integrate environmental justice elements into their planning processes, particularly focusing on reducing health risks for disadvantaged communities.[27]

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[26] "Final Designation of Disadvantaged Communities." California Environmental Protection Agency, *available at:* https://calepa.ca.gov/wp-content/uploads/sites/6/2022/05/Updated-Disadvantaged-Communities-Designation-DAC-May-2022-Eng.a.hp_-1.pdf?emrc=e05e10.

[27] "Environmental Justice in Local Land Use Planning." CA DOJ, *available at:* https://oag.ca.gov/environment/sb1000.

The DEIR shows that the proposed Project site, which is in an SB 535 zone, is directly adjacent to townhome residences, among other nearby family residences and schools (Appendix B-2, p. 8, Table 1). The Project should therefore comply with the objectives of SB 1000, which aim to address such environmental justice challenges by incorporating policies to reduce the unique health risks faced by disadvantaged communities.

The continued expansion of industrial warehouses in these communities presents a significant environmental justice challenge, compounded by San Bernardino County's alarming ozone pollution levels. Ozone pollution, a key concern under SB 1000, poses serious health risks, particularly for children, who are more vulnerable due to their developing lungs and increased outdoor activity.[28]

In accordance with the California Department of Justice ("CA DOJ") guidelines, the effects of greenhouse gas emissions and air pollutants from warehouses should be evaluated cumulatively. The CA DOJ states:[29]

> "When analyzing cumulative impacts, thoroughly considering the project's incremental impact in combination with past, present, and reasonably foreseeable future projects, even if the project's individual impacts alone do not exceed the applicable significance thresholds."

To accurately assess the Project's impact on disadvantaged communities, both existing and anticipated warehouse developments should be considered during the environmental review process.

The Warehouse Cumulative Impact Tool for Community dashboard ("Warehouse CITY"), developed by the Redford Conservancy at Pitzer College and Radical Research LLC, is a tool that visualizes and quantifies existing, potential, and approved warehouse locations across Southern California. Review of Warehouse CITY reveals that there are 22 existing warehouses within the 5.86-square-mile radius of the City (see screenshot below).[30]

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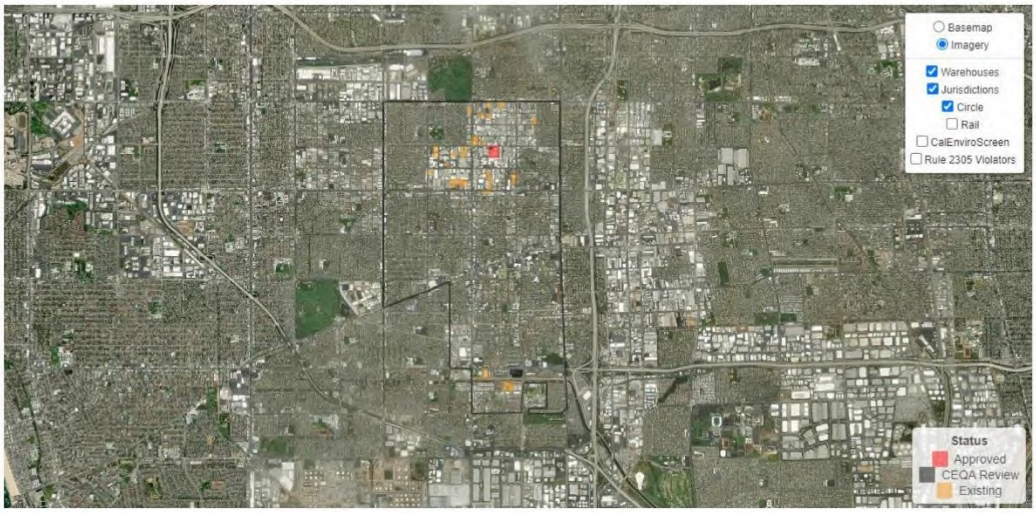
[28] "Health Effects of Ozone Pollution." U.S. EPA, *available at:* https://www.epa.gov/ground-level-ozone-pollution/health-effects-ozone-pollution

[29] "Warehouse Projects: Best Practices and Mitigation Measures to Comply with the California Environmental Quality Act." CA DOJ, available at: https://oag.ca.gov/sites/all/files/agweb/pdfs/environment/warehouse-best-practices.pdf, p. 6.

[30] "Warehouse and Air Quality Mapping." Pitzer College & Radical Research LLC, *available at*: https://radicalresearch.shinyapps.io/WarehouseCITY/.



As the Project site is located in an SB 535 disadvantaged community, we recommend reevaluating the Project's cumulative health risks to more effectively align with CA DOJ guidelines and SB 1000 environmental justice requirements. 40

In April 2022, the American Lung Association ranked San Bernadino County as the worst for ozone pollution in the nation.[31] This year, the County continues to face the worst ozone pollution, as it has seen the highest recorded Air Quality Index ("AQI") values for ground-level ozone in California.[32] The U.S. Environmental Protection Agency ("EPA") indicates that ozone, the main ingredient in "smog," can cause several health problems, which includes aggravating lung diseases and increasing the frequency of asthma attacks. The U.S. EPA states:

> "Children are at greatest risk from exposure to ozone because their lungs are still developing and they are more likely to be active outdoors when ozone levels are high, which increases their exposure. Children are also more likely than adults to have asthma."[33]

Regarding the increased sensitivity of early-life exposures to inhaled pollutants, the California Air Resources Board ("CARB") states:

> "Children are often at greater risk from inhaled pollutants, due to the following reasons:
>
> - Children have unique activity patterns and behavior. For example, they crawl and play on the ground, amidst dirt and dust that may carry a wide variety of toxicants. They

[31] "State of the Air 2022." American Lung Association, April 2022, *available at:* https://www.lung.org/research/sota/key-findings/most-polluted-places.
[32] "High Ozone Days." American Lung Association, 2022, *available at:* https://www.lung.org/research/sota/city-rankings/states/california.
[33] "Health Effects of Ozone Pollution." U.S. EPA, May 2021, *available at:* https://www.epa.gov/ground-level-ozone-pollution/health-effects-ozone-pollution.

often put their hands, toys, and other items into their mouths, ingesting harmful substances. Compared to adults, children typically spend more time outdoors and are more physically active. Time outdoors coupled with faster breathing during exercise increases children's relative exposure to air pollution.

- Children are physiologically unique. Relative to body size, children eat, breathe, and drink more than adults, and their natural biological defenses are less developed. The protective barrier surrounding the brain is not fully developed, and children's nasal passages aren't as effective at filtering out pollutants. Developing lungs, immune, and metabolic systems are also at risk.

- Children are particularly susceptible during development. Environmental exposures during fetal development, the first few years of life, and puberty have the greatest potential to influence later growth and development."[34]

A Stanford-led study also reveals that children exposed to high levels of air pollution are more susceptible to respiratory and cardiovascular diseases in adulthood.[35] Given that children are more susceptible to the negative health impacts of air pollutants, and that warehouses release more smog-forming pollution than any other sector, it is necessary to evaluate the specific health risk that warehouses pose to children in the nearby community. 40

According to the above-mentioned study by the People's Collective for Environmental Justice and University of Redlands, a half mile radius is more commonly used for identifying sensitive receptors. There are 640 schools in the South Coast Air Basin that are located within half a mile of a large warehouse, most of them in socio-economically disadvantaged areas.[36] Regarding the proposed Project itself, the DEIR identifies that the Gardena Early Education Center is located 465 feet, or 0.09 miles, away from the Project site (Appendix B-2, p. 8, Table 1). A revised EIR should be prepared to evaluate the Project's contribution to the disproportionate impacts that warehouses pose on the surrounding communities, including an analysis of the impact on children and people of color who live and attend school in the surrounding area.

In order to evaluate the cumulative air quality impact from the several warehouse projects proposed or built in a one-mile radius of the Project site, the analysis should prepare a revised cumulative HRA to quantify the adverse health outcome from the effects of exposure to multiple warehouses in the

[34] "Children and Air Pollution." California Air Resources Board (CARB), *available at:* https://ww2.arb.ca.gov/resources/documents/children-and-air-pollution.
[35] "Air pollution puts children at higher risk of disease in adulthood, according to Stanford researchers and others." Stanford, February 2021, *available at:* https://news.stanford.edu/2021/02/22/air-pollution-impacts-childrens-health/.
[36] "Warehouses, Pollution, and Social Disparities: An analytical view of the logistics industry's impacts on environmental justice communities across Southern California." People's Collective for Environmental Justice, April 2021, *available at:* https://earthjustice.org/sites/default/files/files/warehouse_research_report_4.15.2021.pdf, p. 4.

immediate area in conjunction with the poor ambient air quality in the Project's census tract. This recommendation is consistent with guidance provided by SB 1000 and the CA DOJ.[37]

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Greenhouse Gas

Failure to Adequately Evaluate Greenhouse Gas Impacts

The DEIR estimates that the Project construction and operation would generate net annual GHG emissions of 2,993.94 metric tons of carbon dioxide equivalents per year ("MT CO_2e/year") (see excerpt below) (p. 3.5-37, Table 3.5-6).

Table 3.5-6. Operational Project Greenhouse Gas Emissions

Emissions Source	Unmitigated MTCO2e per Year	Mitigated MTCO2e per Year
Existing Conditions	167	167
Proposed		
Construction Amortized Over 30 Years	25.16	25.16
Area Source	5.45	5.45
Energy[1]	972.74	877.38[2]
Mobile[3]	1,875.34	1,875.34
Mobile (Special Events)[2]	26.60	26.60
Refrigerants	0.00	0.00
Stationary – Yard Trucks and Forklifts[4]	656.34	58.22
Stationary – Emergency Generators	10.43	10.43
Waste	96.03	96.03
Water and Wastewater	186.32	186.32
Total Emissions	**3,854.42**	**3,160.94**
Net Emissions (Project –Existing)	*3,687.42*	*2,993.94*

Source: CalEEMod version 2022.1. Refer to Appendix F.

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The DEIR subsequently concludes the Project would not exceed the SCAQMD threshold of 3,000 $MTCO_2e$ per year (p. 3.5-28). The DEIR's analysis, as well as the subsequent less-than-significant impact conclusion, however, is unsupported for three reasons:

(1) The DEIR's quantitative GHG analysis relies upon a flawed air model;
(2) The DEIR's quantitative GHG analysis relies upon an outdated threshold; and
(3) The DEIR's unsubstantiated air model indicates a potentially significant impact.

[37] "Warehouse Projects: Best Practices and Mitigation Measures to Comply with the California Environmental Quality Act." CA DOJ, September 2022, available at: https://oag.ca.gov/system/files/media/warehouse-best-practices.pdf, p. 6.

1) Incorrect and Unsubstantiated Quantitative Analysis of Emissions

As previously stated, the DEIR estimates that the Project would generate net annual GHG emissions of 2,993.94 MT CO2e/year (p. 3.5-37). The DEIR's quantitative analysis, however, is unsubstantiated. When reviewing the Project's CalEEMod models, provided in Appendix B-1, we found that several of the values inputted into the models are not consistent with information disclosed in the DEIR.[38] As a result, the models may underestimate the Project's emissions, and the DEIR's quantitative analysis should not be relied upon to determine Project significance. A revised EIR should be prepared that adequately assesses the potential GHG impacts that construction and operation of the proposed Project may have on the environment.

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2) Incorrect Reliance on an Outdated Quantitative GHG Threshold

As previously stated, the DEIR estimates that the Project would generate net annual GHG emissions of 2,993.94 MT CO2e/year, which would not exceed the SCAQMD threshold of 3,000 MT CO_2e/year (p. 3.5-37). However, the guidance that provided the 3,000 MT CO_2e/year threshold, the SCAQMD's 2008 *Interim CEQA GHG Significance Threshold for Stationary Sources, Rules, and Plans* report, was developed when the Global Warming Solutions Act of 2006, commonly known as "AB 32", was the governing statute for GHG reductions in California. AB 32 requires California to reduce GHG emissions to 1990 levels by 2020.[39] Furthermore, AEP guidance states:

> "[F]or evaluating projects with a post 2020 horizon, the threshold will need to be revised based on a new gap analysis that would examine 17 development and reduction potentials out to the next GHG reduction milestone."[40]

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As it is currently August 2024, thresholds for 2020 are not applicable to the proposed Project and should be revised to reflect the current GHG reduction target. As such, the SCAQMD bright-line threshold of 3,000 MT CO_2e/year is outdated and inapplicable to the proposed Project, and the DEIR's less-than-significant GHG impact conclusion should not be relied upon. Instead, we recommend that the Project apply the SCAQMD 2035 service population efficiency target of 3.0 metric tons of carbon dioxide equivalents per service population per year ("MT CO_2e/SP/year"), which was calculated by applying a 40% reduction to the 2020 targets.[41]

3) Failure to Identify a Potentially Significant GHG Impact

In an effort to quantitatively evaluate the Project's GHG emissions, we compared the Project's greenhouse gas ("GHG") emissions, as estimated by the DEIR, to the SCAQMD 2035 efficiency target of

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[38] See the section of this letter titled "Unsubstantiated Input Parameters Used to Estimate Project Emissions."
[39] "Health & Safety Code 38550." California State Legislature, January 2007, *available at:* https://leginfo.legislature.ca.gov/faces/codes_displaySection.xhtml?lawCode=HSC&sectionNum=38550.
[40] "Beyond Newhall and 2020: A Field Guide to New CEQA Greenhouse Gas Thresholds and Climate Action Plan Targets for California." AEP, October 2016, *available at:* https://califaep.org/docs/AEP-2016_Final_White_Paper.pdf, p. 39.
[41] "Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #15." SCAQMD, September 2010, *available at:* http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-15/ghg-meeting-15-minutes.pdf, p. 2.

3.0 MT CO_2e/SP/year. When applying this threshold, the Project's incorrect and unsubstantiated air model indicates a potentially significant GHG impact.

As previously stated, the DEIR estimates that the Project would generate net annual GHG emissions of 2,993.94 MT CO2e/year. According to California Air Pollution Control Officers Association ("CAPCOA")'s *CEQA & Climate Change* report, a service population ("SP") is defined as "the sum of the number of residents and the number of jobs supported by the project."[42] According to the DEIR, the Project is expected to support 40 employees, and does not mention any future residents (p. 2-7). When dividing the Project's net annual GHG emissions, as estimated by the DEIR, by an SP of 40 people, we find that the Project would emit approximately 74.8 MT CO_2e/SP/year (see table below).[43]

Project Greenhouse Gas Emissions	
Annual Emissions (MT CO_2e/year)	2,993.94
Service Population	40
Service Population Efficiency (MT CO_2e/SP/year)	74.8
SCAQMD 2035 Target	**3.0**
Exceeds?	***Yes***

As demonstrated above, the Project's service population efficiency value exceeds the SCAQMD 2035 efficiency target of 3.0 MT CO_2e/SP/year, indicating a potentially significant impact not previously identified or addressed by the DEIR. As a result, the DEIR's less-than-significant GHG impact conclusion should not be relied upon. A revised EIR should be prepared, including an updated GHG analysis and incorporating additional mitigation measures to reduce the Project's GHG emissions to less-than-significant levels.

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Mitigation

Feasible Mitigation Measures Available to Reduce Emissions

According to CEQA Guidelines § 15096(g)(2):

> "When an updated EIR has been prepared for a project, the Responsible Agency shall not approve the project as proposed if the agency finds any feasible alternative or feasible mitigation measures within its powers that would substantially lessen or avoid any significant effect the project would have on the environment."

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The DEIR is consequently required under CEQA to implement all feasible mitigation to reduce the Project's potential impacts. As demonstrated in the sections above, the Project would result in potentially significant air quality and GHG impacts that should be mitigated further.

[42] "CEQA & Climate Change." CAPCOA, January 2008, *available at:* https://www.ourair.org/wp-content/uploads/CAPCOA-CEQA-and-Climate-Change.pdf, p. 71-72.
[43] Calculated: (2,993.94 MT CO_2e/year) / (40 service population) = (74.8 MT CO_2e/SP/year).

In order to reduce the ROG emissions associated with Project construction, we recommend the DEIR consider incorporating the following mitigation measure from the CA DOJ:[44]

- Require the use of super compliant, low-VOC paints less than 10 g/L during the architectural coating construction phase and during Project maintenance.

Further mitigation used by other land use development projects to address volatile organic compounds ("VOC") /ROG emissions is as follows: [45]

- Recycle leftover paint. Take any leftover paint to a household hazardous waste center; do not mix leftover water-based and oil-based paints.
- Keep lids closed on all paint containers when not in use to prevent VOC emissions and excessive odors.
- For water-based paints, clean up with water only. Whenever possible, do not rinse the cleanup water down the drain or pour it directly into the ground or the storm drain
- Use compliant low-VOC cleaning solvents to clean paint application equipment.
- Keep all paint- and solvent-laden rags in sealed containers to prevent VOC emissions.
- Contractors shall construct/build with materials that do not require painting and use pre-painted construction materials to the extent practicable.
- Use high-pressure/low-volume paint applicators with a minimum transfer efficiency of at least 50 percent or other application techniques with equivalent or higher transfer efficiency.

Additionally, Los Angeles County recommends:[46]

- If paints and coatings with VOC content of 0 grams/liter to less than 10 grams/liter cannot be utilized, the developer shall avoid application of architectural coatings during the peak smog season: July, August, and September.

Furthermore, In order to reduce the GHG emissions associated with the Project, we recommend several mitigation measures (see list below).

The CA DOJ recommends: [47]

- Designing all project building roofs to accommodate the maximum future coverage of solar panels and installing the maximum solar power generation capacity feasible.
- Oversizing electrical rooms by 25 percent or providing a secondary electrical room to accommodate future expansion of electric vehicle charging capability.

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[44] "Warehouse Projects: Best Practices and Mitigation Measures to Comply with the California Environmental Quality Act." CA DOJ, September 2022, *available at*: https://oag.ca.gov/system/files/media/warehouse-best-practices.pdf, p. 8 – 10.
[45] "Banning Commerce Center Project." Kimley-Horn and Associates, Inc., June 2024, *available at*: https://ceqanet.opr.ca.gov/2022090102/2; Draft Environmental Impact Report, p. 1-7.
[46] "Mitigation Monitoring and Reporting Program." Los Angeles County Housing Element Update Program EIR. August 2021, *available at*: https://planning.lacounty.gov/wp-content/uploads/2023/07/Housing_final-peir-mitigation-monitoring.pdf.
[47] *Ibid.* p. 9 – 10.

- Constructing zero-emission truck charging/fueling stations proportional to the number of dock doors at the project.
- Running conduit to designated locations for future electric truck charging stations.
- Constructing and maintaining electric light-duty vehicle charging stations proportional to the number of employee parking spaces.
- Running conduit to an additional proportion of employee parking spaces for a future increase in the number of electric light-duty charging stations.
- Requiring facility operators to train managers and employees on efficient scheduling and load management to eliminate unnecessary queuing and idling of trucks.
- Providing meal options onsite or shuttles between the facility and nearby meal destinations.
- Posting signs at every truck exit driveway providing directional information to the truck route.
- Requiring that every tenant train its staff in charge of keeping vehicle records in diesel technologies and compliance with CARB regulations, by attending CARB-approved courses. Also require facility operators to maintain records on-site demonstrating compliance and make records available for inspection by the local jurisdiction, air district, and state upon request.
- Requiring tenants to enroll in the United States Environmental Protection Agency's SmartWay program, and requiring tenants who own, operate, or hire trucking carriers with more than 100 trucks to use carriers that are SmartWay carriers.
- Providing tenants with information on incentive programs, such as the Carl Moyer Program and Voucher Incentive Program, to upgrade their fleets.

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SCAQMD staff recommends: [48]

- Utilizing only Energy Star heating, cooling, and lighting devices and appliances.

CEQA Guidelines 15126.4 (c)(3) include "[o]ffsite measures, including offsets that are not otherwise required, to mitigate a project's emissions" as an option for GHG mitigation.[49] An example of this was in the case of the Oakland Sports and Mixed-Use Project, where off-site reduction measures in the neighboring communities were recommended.[50] We recommend consideration of local carbon offset programs to reduce the Project's GHG impacts as a measure of last result.

As demonstrated above, we have provided several mitigation measures that would reduce Project-related ROG and GHG emissions developed from sources including the CA DOJ, Los Angeles County, and

[48] "Draft Environmental Impact Report (EIR) for the Proposed CADO Menifee Industrial Warehouse Project (Proposed Project)." SCAQMD, April 2024, *available at*: https://www.aqmd.gov/docs/default-source/ceqa/comment-letters/2024/april-2024/RVC240313-05.pdf?sfvrsn=8, p. 3.
[49] "Cal. Code Regs. tit. 14 § 15126.4." CEQA Guidelines, May 2024, *available at*: https://casetext.com/regulation/california-code-of-regulations/title-14-natural-resources/division-6-resources-agency/chapter-3-guidelines-for-implementation-of-the-california-environmental-quality-act/article-9-contents-of-environmental-impact-reports/section-151264-consideration-and-discussion-of-mitigation-measures-proposed-to-minimize-significant-effects.
[50] "Cal. Pub. Resources Code § 21168.6.7." 2023, *available at*: https://casetext.com/statute/california-codes/california-public-resources-code/division-13-environmental-quality/chapter-6-limitations/section-2116867-oakland-sports-and-mixed-use-project-conditions-for-approval-certification-of-project-for-streamlining.

others. These measures offer a cost-effective, feasible way to incorporate lower-emitting design features into the proposed Project, which subsequently reduce emissions released during Project construction and operation.

A revised EIR should be prepared that includes all feasible mitigation measures, as well as updated air quality and GHG analyses to ensure that the necessary mitigation measures are implemented to reduce emissions to the maximum extent feasible. The revised EIR should also demonstrate a commitment to the implementation of these measures prior to Project approval, to ensure that the Project's potentially significant emissions are reduced to the maximum extent possible.

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Disclaimer

SWAPE has received limited discovery regarding this project. Additional information may become available in the future; thus, we retain the right to revise or amend this report when additional information becomes available. Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities at the time of service. No other warranty, expressed or implied, is made as to the scope of work, work methodologies and protocols, site conditions, analytical testing results, and findings presented. This report reflects efforts which were limited to information that was reasonably accessible at the time of the work, and may contain informational gaps, inconsistencies, or otherwise be incomplete due to the unavailability or uncertainty of information obtained or provided by third parties.

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Sincerely,

Matt Hagemann, P.G., C.Hg.

Paul E. Rosenfeld, Ph.D.

Attachment A: Construction Calculations
Attachment B: CalEEMod Output Files
Attachment A: Matt Hagemann CV
Attachment B: Paul Rosenfeld CV

Attachment A

Construction Schedule Calculations					
Phase	Default Phase Length	Construction Duration	%	Construction Duration	Revised Phase Length
Demolition	20	423	0.0473	578	27
Site Preparation	5	423	0.0118	578	7
Grading	8	423	0.0189	578	11
Construction	230	423	0.5437	578	314
Paving	18	423	0.0426	578	25
Architectural Coating	18	423	0.0426	578	25

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	Total Default Construction Duration	Revised Construction Duration
Start Date	6/1/2024	6/1/2024
End Date	7/29/2025	12/31/2025
Total Days	423	578

Attachment B

1450 Artesia Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	1450 Artesia
Construction Start Date	6/1/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	17.4
Location	33.87216176389781, -118.3005279056033
County	Los Angeles-South Coast
City	Gardena
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4626
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

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1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Refrigerated Warehouse-No Rail	72.0	1000sqft	0.00	72,000	0.00	—	—	—

General Office Building	10.0	1000sqft	0.00	10,000	0.00	—	—	—
Parking Lot	4.88	Acre	4.88	4.88	78,076	—	—	—
Industrial Park	186	1000sqft	0.00	186,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.1	8.40	81.3	77.8	0.12	3.52	31.3	34.8	3.24	14.3	17.6	—	14,044	14,044	0.59	0.39	6.57	14,182
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	102	102	18.8	26.1	0.05	0.74	1.13	1.86	0.67	0.28	0.95	—	5,804	5,804	0.24	0.24	0.17	5,881
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.96	7.79	7.46	9.59	0.02	0.30	1.18	1.48	0.28	0.42	0.70	—	2,400	2,400	0.10	0.12	1.34	2,439
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.45	1.42	1.36	1.75	< 0.005	0.06	0.22	0.27	0.05	0.08	0.13	—	397	397	0.02	0.02	0.22	404

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	10.1	8.40	81.3	77.8	0.12	3.52	31.3	34.8	3.24	14.3	17.6	—	14,044	14,044	0.59	0.39	6.57	14,182
2025	3.09	2.65	18.7	26.8	0.05	0.74	1.13	1.86	0.67	0.28	0.95	—	5,847	5,847	0.24	0.24	6.51	5,930
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.74	1.42	13.0	16.4	0.03	0.52	0.87	1.38	0.48	0.22	0.69	—	4,224	4,224	0.17	0.22	0.15	4,293
2025	102	102	18.8	26.1	0.05	0.74	1.13	1.86	0.67	0.28	0.95	—	5,804	5,804	0.24	0.24	0.17	5,881
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.96	0.79	7.46	8.33	0.02	0.30	1.18	1.48	0.28	0.42	0.70	—	1,962	1,962	0.08	0.09	0.97	1,993
2025	7.96	7.79	7.07	9.59	0.02	0.26	0.50	0.76	0.24	0.12	0.36	—	2,400	2,400	0.10	0.12	1.34	2,439
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.18	0.14	1.36	1.52	< 0.005	0.06	0.22	0.27	0.05	0.08	0.13	—	325	325	0.01	0.02	0.16	330
2025	1.45	1.42	1.29	1.75	< 0.005	0.05	0.09	0.14	0.04	0.02	0.07	—	397	397	0.02	0.02	0.22	404

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2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.25	8.90	2.58	21.4	0.03	0.17	2.13	2.30	0.17	0.54	0.71	284	12,543	12,827	29.4	0.43	7.99	13,697
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.18	6.98	2.54	8.72	0.03	0.15	2.13	2.28	0.15	0.54	0.69	284	12,396	12,680	29.4	0.43	0.23	13,543

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.59	8.29	2.62	17.0	0.03	0.17	2.10	2.27	0.16	0.53	0.70	284	12,456	12,739	29.4	0.43	3.46	13,606
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.57	1.51	0.48	3.10	0.01	0.03	0.38	0.41	0.03	0.10	0.13	46.9	2,062	2,109	4.87	0.07	0.57	2,253

2.5. Operations Emissions by Sector, Unmitigated

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Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.53	0.43	0.66	8.27	0.02	0.01	2.13	2.14	0.01	0.54	0.55	—	2,316	2,316	0.08	0.07	7.97	2,348
Area	8.52	8.36	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.9	47.9	< 0.005	< 0.005	—	48.1
Energy	0.20	0.10	1.82	1.53	0.01	0.14	—	0.14	0.14	—	0.14	—	9,562	9,562	0.65	0.06	—	9,596
Water	—	—	—	—	—	—	—	—	—	—	—	118	618	736	12.1	0.29	—	1,125
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	580
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	9.25	8.90	2.58	21.4	0.03	0.17	2.13	2.30	0.17	0.54	0.71	284	12,543	12,827	29.4	0.43	7.99	13,697
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.53	0.43	0.72	7.20	0.02	0.01	2.13	2.14	0.01	0.54	0.55	—	2,216	2,216	0.08	0.08	0.21	2,242
Area	6.45	6.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.20	0.10	1.82	1.53	0.01	0.14	—	0.14	0.14	—	0.14	—	9,562	9,562	0.65	0.06	—	9,596
Water	—	—	—	—	—	—	—	—	—	—	—	118	618	736	12.1	0.29	—	1,125
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	580
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	7.18	6.98	2.54	8.72	0.03	0.15	2.13	2.28	0.15	0.54	0.69	284	12,396	12,680	29.4	0.43	0.23	13,543

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.52	0.43	0.74	7.49	0.02	0.01	2.10	2.12	0.01	0.53	0.55	—	2,243	2,243	0.08	0.08	3.44	2,272
Area	7.87	7.76	0.07	7.98	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.8	32.8	< 0.005	< 0.005	—	32.9
Energy	0.20	0.10	1.82	1.53	0.01	0.14	—	0.14	0.14	—	0.14	—	9,562	9,562	0.65	0.06	—	9,596
Water	—	—	—	—	—	—	—	—	—	—	—	118	618	736	12.1	0.29	—	1,125
Waste	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	580
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	8.59	8.29	2.62	17.0	0.03	0.17	2.10	2.27	0.16	0.53	0.70	284	12,456	12,739	29.4	0.43	3.46	13,606
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.10	0.08	0.13	1.37	< 0.005	< 0.005	0.38	0.39	< 0.005	0.10	0.10	—	371	371	0.01	0.01	0.57	376
Area	1.44	1.42	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.44	5.44	< 0.005	< 0.005	—	5.45
Energy	0.04	0.02	0.33	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,583	1,583	0.11	0.01	—	1,589
Water	—	—	—	—	—	—	—	—	—	—	—	19.5	102	122	2.01	0.05	—	186
Waste	—	—	—	—	—	—	—	—	—	—	—	27.4	0.00	27.4	2.74	0.00	—	96.0
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	1.57	1.51	0.48	3.10	0.01	0.03	0.38	0.41	0.03	0.10	0.13	46.9	2,062	2,109	4.87	0.07	0.57	2,253

3. Construction Emissions Details

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3.1. Demolition (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	3.12	2.62	24.9	21.7	0.03	1.06	—	1.06	0.98	—	0.98	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	3.47	3.47	—	0.52	0.52	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.84	1.61	< 0.005	0.08	—	0.08	0.07	—	0.07	—	253	253	0.01	< 0.005	—	254
Demolition	—	—	—	—	—	—	0.26	0.26	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.34	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	—	41.9	41.9	< 0.005	< 0.005	—	42.1
Demolition	—	—	—	—	—	—	0.05	0.05	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	1.13	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	212	212	0.01	0.01	0.84	215
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.12	0.03	2.03	0.74	0.01	0.02	0.45	0.47	0.02	0.12	0.14	—	1,694	1,694	0.09	0.27	3.92	1,781
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	15.1	15.1	< 0.005	< 0.005	0.03	15.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.16	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	125	125	0.01	0.02	0.13	132
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.49	2.49	< 0.005	< 0.005	< 0.005	2.53
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.8	20.8	< 0.005	< 0.005	0.02	21.8

3.3. Site Preparation (2024) - Unmitigated

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Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.34	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.69	0.63	< 0.005	0.03	—	0.03	0.03	—	0.03	—	102	102	< 0.005	< 0.005	—	102
Dust From Material Movement	—	—	—	—	—	—	0.38	0.38	—	0.19	0.19	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.13	0.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	16.8	16.8	< 0.005	< 0.005	—	16.9
Dust From Material Movement	—	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.32	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	247	247	0.01	0.01	0.97	251
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.56	4.56	< 0.005	< 0.005	0.01	4.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.75	0.75	< 0.005	< 0.005	< 0.005	0.76
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2024) - Unmitigated

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Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.26	1.90	18.2	18.8	0.03	0.84	—	0.84	0.77	—	0.77	—	2,958	2,958	0.12	0.02	—	2,969
Dust From Material Movement	—	—	—	—	—	—	7.08	7.08	—	3.42	3.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Off-Road	0.07	0.06	0.55	0.57	< 0.005	0.03	—	0.03	0.02	—	0.02	—	89.2	89.2	< 0.005	< 0.005	—	89.5
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.8	14.8	< 0.005	< 0.005	—	14.8
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.07	1.13	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	212	212	0.01	0.01	0.84	215
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.14	6.14	< 0.005	< 0.005	0.01	6.22
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.02	1.02	< 0.005	< 0.005	< 0.005	1.03
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2024) - Unmitigated

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Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.44	1.20	11.2	13.1	0.02	0.50	—	0.50	0.46	—	0.46	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.39	3.62	4.23	0.01	0.16	—	0.16	0.15	—	0.15	—	774	774	0.03	0.01	—	777
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.66	0.77	< 0.005	0.03	—	0.03	0.03	—	0.03	—	128	128	0.01	< 0.005	—	129
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.19	3.02	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	565	565	0.02	0.02	2.23	573
Vendor	0.10	0.04	1.52	0.75	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,290	1,290	0.05	0.18	3.50	1,348
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.23	2.55	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	535	535	0.02	0.02	0.06	542
Vendor	0.10	0.04	1.58	0.76	0.01	0.02	0.34	0.36	0.02	0.09	0.11	—	1,291	1,291	0.05	0.18	0.09	1,345
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.87	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	175	175	0.01	0.01	0.31	178
Vendor	0.03	0.01	0.52	0.24	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	417	417	0.02	0.06	0.49	435
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.0	29.0	< 0.005	< 0.005	0.05	29.4
Vendor	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	69.0	69.0	< 0.005	0.01	0.08	72.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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3.9. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.35	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.61	5.62	7.02	0.01	0.23	—	0.23	0.21	—	0.21	—	1,290	1,290	0.05	0.01	—	1,295
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	1.03	1.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	214	214	0.01	< 0.005	—	214
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.17	2.78	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	553	553	0.02	0.02	2.02	561
Vendor	0.09	0.04	1.44	0.71	0.01	0.02	0.34	0.36	0.01	0.09	0.10	—	1,269	1,269	0.05	0.18	3.47	1,327
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.19	2.36	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	524	524	0.02	0.02	0.05	531
Vendor	0.09	0.04	1.50	0.71	0.01	0.02	0.34	0.36	0.01	0.09	0.10	—	1,270	1,270	0.05	0.18	0.09	1,324
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.11	1.33	0.00	0.00	0.28	0.28	0.00	0.07	0.07	—	286	286	0.01	0.01	0.47	290
Vendor	0.05	0.02	0.81	0.38	< 0.005	0.01	0.18	0.19	< 0.005	0.05	0.06	—	683	683	0.03	0.10	0.81	713
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.24	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	47.4	47.4	< 0.005	< 0.005	0.08	48.0
Vendor	0.01	< 0.005	0.15	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	113	113	< 0.005	0.02	0.13	118
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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3.11. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.85	0.71	6.52	8.84	0.01	0.29	—	0.29	0.26	—	0.26	—	1,351	1,351	0.05	0.01	—	1,355
Paving	0.51	0.51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.52	8.84	0.01	0.29	—	0.29	0.26	—	0.26	—	1,351	1,351	0.05	0.01	—	1,355
Paving	0.51	0.51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.45	0.61	< 0.005	0.02	—	0.02	0.02	—	0.02	—	92.5	92.5	< 0.005	< 0.005	—	92.8
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.3	15.3	< 0.005	< 0.005	—	15.4
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.09	1.39	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	277	277	0.01	0.01	1.01	281
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.18	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	262	262	0.01	0.01	0.03	265
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.2	18.2	< 0.005	< 0.005	0.03	18.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.02	3.02	< 0.005	< 0.005	< 0.005	3.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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3.13. Architectural Coating (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	102	102	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.15	9.15	< 0.005	< 0.005	—	9.18
Architectural Coatings	6.97	6.97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.51	1.51	< 0.005	< 0.005	—	1.52
Architectural Coatings	1.27	1.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.11	1.32	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	292	292	0.01	0.01	0.03	296
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.3	20.3	< 0.005	< 0.005	0.03	20.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.37	3.37	< 0.005	< 0.005	0.01	3.41
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	2,029	2,029	0.13	0.02	—	2,037
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	260	260	0.02	< 0.005	—	261
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	271	271	0.02	< 0.005	—	272
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	4,831	4,831	0.30	0.04	—	4,849
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,391	7,391	0.46	0.06	—	7,419
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	2,029	2,029	0.13	0.02	—	2,037
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	260	260	0.02	< 0.005	—	261
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	271	271	0.02	< 0.005	—	272
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	4,831	4,831	0.30	0.04	—	4,849
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,391	7,391	0.46	0.06	—	7,419
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Refrigerated Warehouse-Rail	—	—	—	—	—	—	—	—	—	—	—	—	336	336	0.02	< 0.005	—	337
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	43.0	43.0	< 0.005	< 0.005	—	43.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	44.9	44.9	< 0.005	< 0.005	—	45.1
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	800	800	0.05	0.01	—	803
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,224	1,224	0.08	0.01	—	1,228

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.05	0.03	0.48	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	—	578	578	0.05	< 0.005	—	580
General Office Building	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	81.2	81.2	0.01	< 0.005	—	81.5
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	0.14	0.07	1.27	1.06	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.13	< 0.005	—	1,515
Total	0.20	0.10	1.82	1.53	0.01	0.14	—	0.14	0.14	—	0.14	—	2,170	2,170	0.19	< 0.005	—	2,176

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.05	0.03	0.48	0.41	< 0.005	0.04	—	0.04	0.04	—	0.04	—	578	578	0.05	< 0.005	—	580
General Office Building	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	81.2	81.2	0.01	< 0.005	—	81.5
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	0.14	0.07	1.27	1.06	0.01	0.10	—	0.10	0.10	—	0.10	—	1,511	1,511	0.13	< 0.005	—	1,515
Total	0.20	0.10	1.82	1.53	0.01	0.14	—	0.14	0.14	—	0.14	—	2,170	2,170	0.19	< 0.005	—	2,176
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	0.01	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	95.7	95.7	0.01	< 0.005	—	96.0
General Office Building	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.4	13.4	< 0.005	< 0.005	—	13.5
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	0.03	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	250	250	0.02	< 0.005	—	251
Total	0.04	0.02	0.33	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	—	359	359	0.03	< 0.005	—	360

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4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	5.75	5.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.70	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.07	1.91	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.9	47.9	< 0.005	< 0.005	—	48.1
Total	8.52	8.36	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.9	47.9	< 0.005	< 0.005	—	48.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	5.75	5.75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.70	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	6.45	6.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.05	1.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Architectural Coating	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.26	0.24	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.44	5.44	< 0.005	< 0.005	—	5.45
Total	1.44	1.42	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.44	5.44	< 0.005	< 0.005	—	5.45

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	31.9	165	197	3.28	0.08	—	303
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.41	17.6	21.0	0.35	0.01	—	32.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	8.47	8.47	< 0.005	< 0.005	—	8.50
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	82.4	427	509	8.48	0.20	—	782
Total	—	—	—	—	—	—	—	—	—	—	—	118	618	736	12.1	0.29	—	1,125
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	31.9	165	197	3.28	0.08	—	303
General Office Building	—	—	—	—	—	—	—	—	—	—	—	3.41	17.6	21.0	0.35	0.01	—	32.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	8.47	8.47	< 0.005	< 0.005	—	8.50
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	82.4	427	509	8.48	0.20	—	782
Total	—	—	—	—	—	—	—	—	—	—	—	118	618	736	12.1	0.29	—	1,125
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	5.28	27.3	32.6	0.54	0.01	—	50.1
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.56	2.92	3.48	0.06	< 0.005	—	5.35
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	1.40	1.40	< 0.005	< 0.005	—	1.41
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	13.6	70.7	84.3	1.40	0.03	—	129
Total	—	—	—	—	—	—	—	—	—	—	—	19.5	102	122	2.01	0.05	—	186

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4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	36.5	0.00	36.5	3.65	0.00	—	128
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.01	0.00	5.01	0.50	0.00	—	17.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12.4	0.00	—	435
Total	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	580
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	36.5	0.00	36.5	3.65	0.00	—	128
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.01	0.00	5.01	0.50	0.00	—	17.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12.4	0.00	—	435
Total	—	—	—	—	—	—	—	—	—	—	—	166	0.00	166	16.6	0.00	—	580
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Refrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	6.04	0.00	6.04	0.60	0.00	—	21.1
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.83	0.00	0.83	0.08	0.00	—	2.90
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	20.6	0.00	20.6	2.06	0.00	—	72.0
Total	—	—	—	—	—	—	—	—	—	—	—	27.4	0.00	27.4	2.74	0.00	—	96.0

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

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Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	6/1/2024	7/9/2024	5.00	27.0	—
Site Preparation	Site Preparation	6/30/2024	7/9/2024	5.00	7.00	—
Grading	Grading	7/8/2024	7/22/2024	5.00	11.0	—
Building Construction	Building Construction	7/20/2024	10/2/2025	5.00	314	—
Paving	Paving	9/5/2025	10/9/2025	5.00	25.0	—
Architectural Coating	Architectural Coating	11/27/2025	12/31/2025	5.00	25.0	—

5.2. Off-Road Equipment

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5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20

Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

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Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	16.7	29.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	30.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2

Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	40.0	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	40.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	22.3	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

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5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	402,000	134,000	12,754

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5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Ton of Debris)	Material Exported (Ton of Debris)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	4,374	—
Site Preparation	0.00	0.00	31.5	0.00	—
Grading	0.00	0.00	60.0	0.00	—
Paving	0.00	0.00	0.00	0.00	4.88

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Refrigerated Warehouse-No Rail	0.00	0%
General Office Building	0.00	0%
Parking Lot	4.88	100%
Industrial Park	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	75.0	75.0	75.0	27,375	3,000	3,000	3,000	1,095,000

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

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Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	402,000	134,000	12,754

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Refrigerated Warehouse-No Rail	1,392,340	532	0.0330	0.0040	1,803,891
General Office Building	178,203	532	0.0330	0.0040	253,465
Parking Lot	186,214	532	0.0330	0.0040	0.00

Industrial Park	3,314,573	532	0.0330	0.0040	4,714,443

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Refrigerated Warehouse-No Rail	16,650,000	0.00
General Office Building	1,777,337	0.00
Parking Lot	0.00	1,094,983
Industrial Park	43,012,500	0.00

5.13. Operational Waste Generation

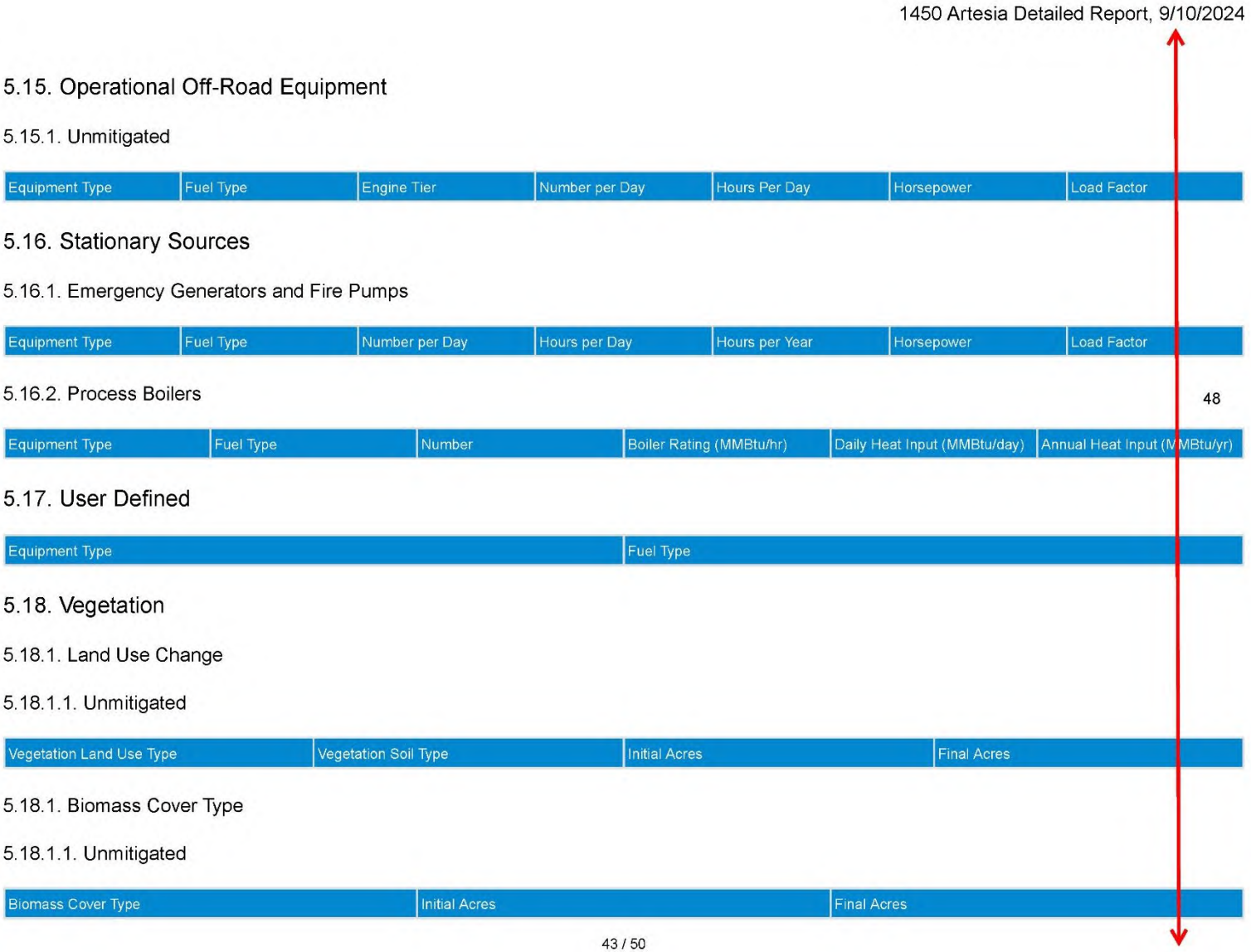
5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	67.7	—
General Office Building	9.30	—
Parking Lot	0.00	—
Industrial Park	231	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0



1450 Artesia Detailed Report, 9/10/2024

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

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Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	5.08	annual days of extreme heat
Extreme Precipitation	4.20	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

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6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	24.9
AQ-PM	81.4
AQ-DPM	78.2
Drinking Water	69.1
Lead Risk Housing	45.4
Pesticides	38.0
Toxic Releases	99.2
Traffic	68.5
Effect Indicators	—
CleanUp Sites	89.0
Groundwater	87.3
Haz Waste Facilities/Generators	67.0
Impaired Water Bodies	96.3
Solid Waste	91.0
Sensitive Population	—
Asthma	67.8
Cardio-vascular	66.2
Low Birth Weights	77.0
Socioeconomic Factor Indicators	—
Education	31.4
Housing	16.3
Linguistic	76.6
Poverty	33.2
Unemployment	2.73

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	74.48992686
Employed	96.16322341
Median HI	44.11651482
Education	—
Bachelor's or higher	57.65430515
High school enrollment	100
Preschool enrollment	51.48209932
Transportation	—
Auto Access	65.16104196
Active commuting	20.26177339
Social	—
2-parent households	79.14795329
Voting	26.57513153
Neighborhood	—
Alcohol availability	33.14513025
Park access	45.65635827
Retail density	75.59348133
Supermarket access	71.26908764
Tree canopy	22.73835493
Housing	—
Homeownership	72.97574747
Housing habitability	93.10920056
Low-inc homeowner severe housing cost burden	82.1891441
Low-inc renter severe housing cost burden	91.4282048

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Uncrowded housing	62.10701912
Health Outcomes	—
Insured adults	45.18157321
Arthritis	0.0
Asthma ER Admissions	22.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	84.1
Cognitively Disabled	95.5
Physically Disabled	41.1
Heart Attack ER Admissions	23.3
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	67.2
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

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Children	62.5
Elderly	6.3
English Speaking	13.2
Foreign-born	90.3
Outdoor Workers	64.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	9.7
Traffic Density	57.1
Traffic Access	56.5
Other Indices	—
Hardship	41.8
Other Decision Support	—
2016 Voting	15.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	83.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	See comment on: "Failure to Consider Potential Cold Storage Requirements".
Construction: Construction Phases	See comment on: "Unsubstantiated Changes to Individual Construction Phase Lengths"
Construction: Trips and VMT	Consistent with DEIR's model.
Construction: Dust From Material Movement	Consistent with DEIR's model.
Operations: Refrigerants	Consistent with DEIR's model.

Attachment C

SWAPE Technical Consultation, Data Analysis and Litigation Support for the Environment

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Matthew F. Hagemann, P.G., C.Hg., QSD, QSP

Geologic and Hydrogeologic Characterization
Investigation and Remediation Strategies
Litigation Support and Testifying Expert
Industrial Stormwater Compliance
CEQA Review

Education:
M.S. Degree, Geology, California State University Los Angeles, Los Angeles, CA, 1984.
B.A. Degree, Geology, Humboldt State University, Arcata, CA, 1982.

Professional Certifications:
California Professional Geologist
California Certified Hydrogeologist
Qualified SWPPP Developer and Practitioner

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Professional Experience:
Matt has 30 years of experience in environmental policy, contaminant assessment and remediation, stormwater compliance, and CEQA review. He spent nine years with the U.S. EPA in the RCRA and Superfund programs and served as EPA's Senior Science Policy Advisor in the Western Regional Office where he identified emerging threats to groundwater from perchlorate and MTBE. While with EPA, Matt also served as a Senior Hydrogeologist in the oversight of the assessment of seven major military facilities undergoing base closure. He led numerous enforcement actions under provisions of the Resource Conservation and Recovery Act (RCRA) and directed efforts to improve hydrogeologic characterization and water quality monitoring. For the past 15 years, as a founding partner with SWAPE, Matt has developed extensive client relationships and has managed complex projects that include consultation as an expert witness and a regulatory specialist, and a manager of projects ranging from industrial stormwater compliance to CEQA review of impacts from hazardous waste, air quality and greenhouse gas emissions.

Positions Matt has held include:

- Founding Partner, Soil/Water/Air Protection Enterprise (SWAPE) (2003 – present);
- Geology Instructor, Golden West College, 2010 – 2104, 2017;
- Senior Environmental Analyst, Komex H2O Science, Inc. (2000 -- 2003);

- Executive Director, Orange Coast Watch (2001 – 2004);
- Senior Science Policy Advisor and Hydrogeologist, U.S. Environmental Protection Agency (1989–1998);
- Hydrogeologist, National Park Service, Water Resources Division (1998 – 2000);
- Adjunct Faculty Member, San Francisco State University, Department of Geosciences (1993 – 1998);
- Instructor, College of Marin, Department of Science (1990 – 1995);
- Geologist, U.S. Forest Service (1986 – 1998); and
- Geologist, Dames & Moore (1984 – 1986).

Senior Regulatory and Litigation Support Analyst:

With SWAPE, Matt's responsibilities have included:

- Lead analyst and testifying expert in the review of over 300 environmental impact reports and negative declarations since 2003 under CEQA that identify significant issues with regard to hazardous waste, water resources, water quality, air quality, greenhouse gas emissions, and geologic hazards. Make recommendations for additional mitigation measures to lead agencies at the local and county level to include additional characterization of health risks and implementation of protective measures to reduce worker exposure to hazards from toxins and Valley Fever.
- Stormwater analysis, sampling and best management practice evaluation at more than 100 industrial facilities.
- Expert witness on numerous cases including, for example, perfluorooctanoic acid (PFOA) contamination of groundwater, MTBE litigation, air toxins at hazards at a school, CERCLA compliance in assessment and remediation, and industrial stormwater contamination.
- Technical assistance and litigation support for vapor intrusion concerns.
- Lead analyst and testifying expert in the review of environmental issues in license applications for large solar power plants before the California Energy Commission.
- Manager of a project to evaluate numerous formerly used military sites in the western U.S.
- Manager of a comprehensive evaluation of potential sources of perchlorate contamination in Southern California drinking water wells.
- Manager and designated expert for litigation support under provisions of Proposition 65 in the review of releases of gasoline to sources drinking water at major refineries and hundreds of gas stations throughout California.

With Komex H2O Science Inc., Matt's duties included the following:

- Senior author of a report on the extent of perchlorate contamination that was used in testimony by the former U.S. EPA Administrator and General Counsel.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of MTBE use, research, and regulation.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of perchlorate use, research, and regulation.
- Senior researcher in a study that estimates nationwide costs for MTBE remediation and drinking water treatment, results of which were published in newspapers nationwide and in testimony against provisions of an energy bill that would limit liability for oil companies.
- Research to support litigation to restore drinking water supplies that have been contaminated by MTBE in California and New York.

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- Expert witness testimony in a case of oil production-related contamination in Mississippi.
- Lead author for a multi-volume remedial investigation report for an operating school in Los Angeles that met strict regulatory requirements and rigorous deadlines.
- Development of strategic approaches for cleanup of contaminated sites in consultation with clients and regulators.

Executive Director:

As Executive Director with Orange Coast Watch, Matt led efforts to restore water quality at Orange County beaches from multiple sources of contamination including urban runoff and the discharge of wastewater. In reporting to a Board of Directors that included representatives from leading Orange County universities and businesses, Matt prepared issue papers in the areas of treatment and disinfection of wastewater and control of the discharge of grease to sewer systems. Matt actively participated in the development of countywide water quality permits for the control of urban runoff and permits for the discharge of wastewater. Matt worked with other nonprofits to protect and restore water quality, including Surfrider, Natural Resources Defense Council and Orange County CoastKeeper as well as with business institutions including the Orange County Business Council.

Hydrogeology:

As a Senior Hydrogeologist with the U.S. Environmental Protection Agency, Matt led investigations to characterize and cleanup closing military bases, including Mare Island Naval Shipyard, Hunters Point Naval Shipyard, Treasure Island Naval Station, Alameda Naval Station, Moffett Field, Mather Army Airfield, and Sacramento Army Depot. Specific activities were as follows:

- Led efforts to model groundwater flow and contaminant transport, ensured adequacy of monitoring networks, and assessed cleanup alternatives for contaminated sediment, soil, and groundwater.
- Initiated a regional program for evaluation of groundwater sampling practices and laboratory analysis at military bases.
- Identified emerging issues, wrote technical guidance, and assisted in policy and regulation development through work on four national U.S. EPA workgroups, including the Superfund Groundwater Technical Forum and the Federal Facilities Forum.

At the request of the State of Hawaii, Matt developed a methodology to determine the vulnerability of groundwater to contamination on the islands of Maui and Oahu. He used analytical models and a GIS to show zones of vulnerability, and the results were adopted and published by the State of Hawaii and County of Maui.

As a hydrogeologist with the EPA Groundwater Protection Section, Matt worked with provisions of the Safe Drinking Water Act and NEPA to prevent drinking water contamination. Specific activities included the following:

- Received an EPA Bronze Medal for his contribution to the development of national guidance for the protection of drinking water.
- Managed the Sole Source Aquifer Program and protected the drinking water of two communities through designation under the Safe Drinking Water Act. He prepared geologic reports, conducted

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public hearings, and responded to public comments from residents who were very concerned about the impact of designation.

- Reviewed a number of Environmental Impact Statements for planned major developments, including large hazardous and solid waste disposal facilities, mine reclamation, and water transfer.

Matt served as a hydrogeologist with the RCRA Hazardous Waste program. Duties were as follows:

- Supervised the hydrogeologic investigation of hazardous waste sites to determine compliance with Subtitle C requirements.
- Reviewed and wrote "part B" permits for the disposal of hazardous waste.
- Conducted RCRA Corrective Action investigations of waste sites and led inspections that formed the basis for significant enforcement actions that were developed in close coordination with U.S. EPA legal counsel.
- Wrote contract specifications and supervised contractor's investigations of waste sites.

With the National Park Service, Matt directed service-wide investigations of contaminant sources to prevent degradation of water quality, including the following tasks:

- Applied pertinent laws and regulations including CERCLA, RCRA, NEPA, NRDA, and the Clean Water Act to control military, mining, and landfill contaminants.
- Conducted watershed-scale investigations of contaminants at parks, including Yellowstone and Olympic National Park.
- Identified high-levels of perchlorate in soil adjacent to a national park in New Mexico and advised park superintendent on appropriate response actions under CERCLA.
- Served as a Park Service representative on the Interagency Perchlorate Steering Committee, a national workgroup.
- Developed a program to conduct environmental compliance audits of all National Parks while serving on a national workgroup.
- Co-authored two papers on the potential for water contamination from the operation of personal watercraft and snowmobiles, these papers serving as the basis for the development of nation-wide policy on the use of these vehicles in National Parks.
- Contributed to the Federal Multi-Agency Source Water Agreement under the Clean Water Action Plan.

Policy:

Served senior management as the Senior Science Policy Advisor with the U.S. Environmental Protection Agency, Region 9.

Activities included the following:

- Advised the Regional Administrator and senior management on emerging issues such as the potential for the gasoline additive MTBE and ammonium perchlorate to contaminate drinking water supplies.
- Shaped EPA's national response to these threats by serving on workgroups and by contributing to guidance, including the Office of Research and Development publication, Oxygenates in Water: Critical Information and Research Needs.
- Improved the technical training of EPA's scientific and engineering staff.
- Earned an EPA Bronze Medal for representing the region's 300 scientists and engineers in negotiations with the Administrator and senior management to better integrate scientific

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principles into the policy-making process.
- Established national protocol for the peer review of scientific documents.

Geology:

With the U.S. Forest Service, Matt led investigations to determine hillslope stability of areas proposed for timber harvest in the central Oregon Coast Range. Specific activities were as follows:

- Mapped geology in the field, and used aerial photographic interpretation and mathematical models to determine slope stability.
- Coordinated his research with community members who were concerned with natural resource protection.
- Characterized the geology of an aquifer that serves as the sole source of drinking water for the city of Medford, Oregon.

As a consultant with Dames and Moore, Matt led geologic investigations of two contaminated sites (later listed on the Superfund NPL) in the Portland, Oregon, area and a large hazardous waste site in eastern Oregon. Duties included the following:

- Supervised year-long effort for soil and groundwater sampling.
- Conducted aquifer tests.
- Investigated active faults beneath sites proposed for hazardous waste disposal.

Teaching:

From 1990 to 1998, Matt taught at least one course per semester at the community college and university levels:

- At San Francisco State University, held an adjunct faculty position and taught courses in environmental geology, oceanography (lab and lecture), hydrogeology, and groundwater contamination.
- Served as a committee member for graduate and undergraduate students.
- Taught courses in environmental geology and oceanography at the College of Marin.

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Matt is currently a part time geology instructor at Golden West College in Huntington Beach, California where he taught from 2010 to 2014 and in 2017.

Invited Testimony, Reports, Papers and Presentations:

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Presentation to the Public Environmental Law Conference, Eugene, Oregon.

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Invited presentation to U.S. EPA Region 9, San Francisco, California.

Hagemann, M.F., 2005. Use of Electronic Databases in Environmental Regulation, Policy Making and Public Participation. Brownfields 2005, Denver, Coloradao.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Nevada and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Las Vegas, NV (served on conference organizing committee).

Hagemann, M.F., 2004. Invited testimony to a California Senate committee hearing on air toxins at schools in Southern California, Los Angeles.

Brown, A., Farrow, J., Gray, A. and **Hagemann, M.**, 2004. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to the Ground Water and Environmental Law Conference, National Groundwater Association.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Arizona and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Phoenix, AZ (served on conference organizing committee).

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in the Southwestern U.S. Invited presentation to a special committee meeting of the National Academy of Sciences, Irvine, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a tribal EPA meeting, Pechanga, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a meeting of tribal repesentatives, Parker, AZ.

Hagemann, M.F., 2003. Impact of Perchlorate on the Colorado River and Associated Drinking Water Supplies. Invited presentation to the Inter-Tribal Meeting, Torres Martinez Tribe.

Hagemann, M.F., 2003. The Emergence of Perchlorate as a Widespread Drinking Water Contaminant. Invited presentation to the U.S. EPA Region 9.

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Hagemann, M.F., 2003. A Deductive Approach to the Assessment of Perchlorate Contamination. Invited presentation to the California Assembly Natural Resources Committee.

Hagemann, M.F., 2003. Perchlorate: A Cold War Legacy in Drinking Water. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. From Tank to Tap: A Chronology of MTBE in Groundwater. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. A Chronology of MTBE in Groundwater and an Estimate of Costs to Address Impacts to Groundwater. Presentation to the annual meeting of the Society of Environmental Journalists.

Hagemann, M.F., 2002. An Estimate of the Cost to Address MTBE Contamination in Groundwater (and Who Will Pay). Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to a meeting of the U.S. EPA and State Underground Storage Tank Program managers.

Hagemann, M.F., 2001. From Tank to Tap: A Chronology of MTBE in Groundwater. Unpublished report.

Hagemann, M.F., 2001. Estimated Cleanup Cost for MTBE in Groundwater Used as Drinking Water. Unpublished report.

Hagemann, M.F., 2001. Estimated Costs to Address MTBE Releases from Leaking Underground Storage Tanks. Unpublished report.

Hagemann, M.F., and VanMouwerik, M., 1999. Potential Water Quality Concerns Related to Snowmobile Usage. Water Resources Division, National Park Service, Technical Report.

VanMouwerik, M. and **Hagemann, M.F.** 1999, Water Quality Concerns Related to Personal Watercraft Usage. Water Resources Division, National Park Service, Technical Report.

Hagemann, M.F., 1999, Is Dilution the Solution to Pollution in National Parks? The George Wright Society Biannual Meeting, Asheville, North Carolina.

Hagemann, M.F., 1997, The Potential for MTBE to Contaminate Groundwater. U.S. EPA Superfund Groundwater Technical Forum Annual Meeting, Las Vegas, Nevada.

Hagemann, M.F., and Gill, M., 1996, Impediments to Intrinsic Remediation, Moffett Field Naval Air Station, Conference on Intrinsic Remediation of Chlorinated Hydrocarbons, Salt Lake City.

Hagemann, M.F., Fukunaga, G.L., 1996, The Vulnerability of Groundwater to Anthropogenic Contaminants on the Island of Maui, Hawaii. Hawaii Water Works Association Annual Meeting, Maui, October 1996.

Hagemann, M. F., Fukanaga, G. L., 1996, Ranking Groundwater Vulnerability in Central Oahu, Hawaii. Proceedings, Geographic Information Systems in Environmental Resources Management, Air and Waste Management Association Publication VIP-61.

Hagemann, M.F., 1994. Groundwater Characterization and Cleanup at Closing Military Bases in California. Proceedings, California Groundwater Resources Association Meeting.

Hagemann, M.F. and Sabol, M.A., 1993. Role of the U.S. EPA in the High Plains States Groundwater Recharge Demonstration Program. Proceedings, Sixth Biennial Symposium on the Artificial Recharge of Groundwater.

Hagemann, M.F., 1993. U.S. EPA Policy on the Technical Impracticability of the Cleanup of DNAPL-contaminated Groundwater. California Groundwater Resources Association Meeting.

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Hagemann, M.F., 1992. Dense Nonaqueous Phase Liquid Contamination of Groundwater: An Ounce of Prevention... Proceedings, Association of Engineering Geologists Annual Meeting, v. 35.

Other Experience:

Selected as subject matter expert for the California Professional Geologist licensing examinations, 2009-2011.

Attachment D

SWAPE Technical Consultation, Data Analysis and Litigation Support for the Environment

SOIL WATER AIR PROTECTION ENTERPRISE
2656 29th Street, Suite 201
Santa Monica, California 90405
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Fax: (310) 452-5550
Email: prosenfeld@swape.com

Paul Rosenfeld, Ph.D.

Chemical Fate and Transport & Air Dispersion Modeling

Principal Environmental Chemist

Risk Assessment & Remediation Specialist

Education

Ph.D. Soil Chemistry, University of Washington, 1999. Dissertation on volatile organic compound filtration.

M.S. Environmental Science, U.C. Berkeley, 1995. Thesis on organic waste economics.

B.A. Environmental Studies, U.C. Santa Barbara, 1991. Focus on wastewater treatment.

Professional Experience

Dr. Rosenfeld has over 25 years of experience conducting environmental investigations and risk assessments for evaluating impacts to human health, property, and ecological receptors. His expertise focuses on the fate and transport of environmental contaminants, human health risk, exposure assessment, and ecological restoration. Dr. Rosenfeld has evaluated and modeled emissions from oil spills, landfills, boilers and incinerators, process stacks, storage tanks, confined animal feeding operations, industrial, military and agricultural sources, unconventional oil drilling operations, and locomotive and construction engines. His project experience ranges from monitoring and modeling of pollution sources to evaluating impacts of pollution on workers at industrial facilities and residents in surrounding communities. Dr. Rosenfeld has also successfully modeled exposure to contaminants distributed by water systems and via vapor intrusion.

Dr. Rosenfeld has investigated and designed remediation programs and risk assessments for contaminated sites containing lead, heavy metals, mold, bacteria, particulate matter, petroleum hydrocarbons, chlorinated solvents, pesticides, radioactive waste, dioxins and furans, semi- and volatile organic compounds, PCBs, PAHs, creosote, perchlorate, asbestos, per- and poly-fluoroalkyl substances (PFOA/PFOS), unusual polymers, fuel oxygenates (MTBE), among other pollutants. Dr. Rosenfeld also has experience evaluating greenhouse gas emissions from various projects and is an expert on the assessment of odors from industrial and agricultural sites, as well as the evaluation of odor nuisance impacts and technologies for abatement of odorous emissions. As a principal scientist at SWAPE, Dr. Rosenfeld directs air dispersion modeling and exposure assessments. He has served as an expert witness and testified about pollution sources causing nuisance and/or personal injury at sites and has testified as an expert witness on numerous cases involving exposure to soil, water and air contaminants from industrial, railroad, agricultural, and military sources.

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Professional History:

Soil Water Air Protection Enterprise (SWAPE); 2003 to present; Principal and Founding Partner
UCLA School of Public Health; 2007 to 2011; Lecturer (Assistant Researcher)
UCLA School of Public Health; 2003 to 2006; Adjunct Professor
UCLA Environmental Science and Engineering Program; 2002-2004; Doctoral Intern Coordinator
UCLA Institute of the Environment, 2001-2002; Research Associate
Komex H_2O Science, 2001 to 2003; Senior Remediation Scientist
National Groundwater Association, 2002-2004; Lecturer
San Diego State University, 1999-2001; Adjunct Professor
Anteon Corp., San Diego, 2000-2001; Remediation Project Manager
Ogden (now Amec), San Diego, 2000-2000; Remediation Project Manager
Bechtel, San Diego, California, 1999 – 2000; Risk Assessor
King County, Seattle, 1996 – 1999; Scientist
James River Corp., Washington, 1995-96; Scientist
Big Creek Lumber, Davenport, California, 1995; Scientist
Plumas Corp., California and USFS, Tahoe 1993-1995; Scientist
Peace Corps and World Wildlife Fund, St. Kitts, West Indies, 1991-1993; Scientist

Publications:

Rosenfeld P. E., Spaeth K., Hallman R., Bressler R., Smith, G., (2022) Cancer Risk and Diesel Exhaust Exposure Among Railroad Workers. *Water Air Soil Pollution.* **233,** 171.

Remy, L.L., Clay T., Byers, V., **Rosenfeld P. E.** (2019) Hospital, Health, and Community Burden After Oil Refinery Fires, Richmond, California 2007 and 2012. *Environmental Health.* 18:48

Simons, R.A., Seo, Y. **Rosenfeld, P**., (2015) Modeling the Effect of Refinery Emission On Residential Property Value. Journal of Real Estate Research. 27(3):321-342

Chen, J. A, Zapata A. R., Sutherland A. J., Molmen, D.R., Chow, B. S., Wu, L. E., **Rosenfeld, P. E.,** Hesse, R. C., (2012) Sulfur Dioxide and Volatile Organic Compound Exposure To A Community In Texas City Texas Evaluated Using Aermod and Empirical Data. *American Journal of Environmental Science*, 8(6), 622-632.

Rosenfeld, P.E. & Feng, L. (2011). *The Risks of Hazardous Waste.* Amsterdam: Elsevier Publishing.

Cheremisinoff, N.P., & **Rosenfeld, P.E.** (2011). *Handbook of Pollution Prevention and Cleaner Production: Best Practices in the Agrochemical Industry*, Amsterdam: Elsevier Publishing.

Gonzalez, J., Feng, L., Sutherland, A., Waller, C., Sok, H., Hesse, R., **Rosenfeld, P.** (2010). PCBs and Dioxins/Furans in Attic Dust Collected Near Former PCB Production and Secondary Copper Facilities in Sauget, IL. *Procedia Environmental Sciences*. 113–125.

Feng, L., Wu, C., Tam, L., Sutherland, A.J., Clark, J.J., **Rosenfeld, P.E.** (2010). Dioxin and Furan Blood Lipid and Attic Dust Concentrations in Populations Living Near Four Wood Treatment Facilities in the United States. *Journal of Environmental Health*. 73(6), 34-46.

Cheremisinoff, N.P., & **Rosenfeld, P.E.** (2010). *Handbook of Pollution Prevention and Cleaner Production: Best Practices in the Wood and Paper Industries.* Amsterdam: Elsevier Publishing.

Cheremisinoff, N.P., & **Rosenfeld, P.E.** (2009). *Handbook of Pollution Prevention and Cleaner Production: Best Practices in the Petroleum Industry*. Amsterdam: Elsevier Publishing.

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Wu, C., Tam, L., Clark, J., **Rosenfeld, P**. (2009). Dioxin and furan blood lipid concentrations in populations living near four wood treatment facilities in the United States. *WIT Transactions on Ecology and the Environment, Air Pollution,* 123 (17), 319-327.

Tam L. K.., Wu C. D., Clark J. J. and **Rosenfeld, P.E.** (2008). A Statistical Analysis Of Attic Dust And Blood Lipid Concentrations Of Tetrachloro-p-Dibenzodioxin (TCDD) Toxicity Equivalency Quotients (TEQ) In Two Populations Near Wood Treatment Facilities. *Organohalogen Compounds*, 70, 002252-002255.

Tam L. K.., Wu C. D., Clark J. J. and **Rosenfeld, P.E.** (2008). Methods For Collect Samples For Assessing Dioxins And Other Environmental Contaminants In Attic Dust: A Review. *Organohalogen Compounds*, 70, 000527-000530.

Hensley, A.R. A. Scott, J. J. J. Clark, **Rosenfeld, P.E.** (2007). Attic Dust and Human Blood Samples Collected near a Former Wood Treatment Facility. *Environmental Research*. 105, 194-197.

Rosenfeld, P.E., J. J. J. Clark, A. R. Hensley, M. Suffet. (2007). The Use of an Odor Wheel Classification for Evaluation of Human Health Risk Criteria for Compost Facilities. *Water Science & Technology* 55(5), 345-357.

Rosenfeld, P. E., M. Suffet. (2007). The Anatomy Of Odour Wheels For Odours Of Drinking Water, Wastewater, Compost And The Urban Environment. *Water Science & Technology* 55(5), 335-344.

Sullivan, P. J. Clark, J.J.J., Agardy, F. J., **Rosenfeld, P.E.** (2007). *Toxic Legacy, Synthetic Toxins in the Food, Water, and Air in American Cities.* Boston Massachusetts: Elsevier Publishing

Rosenfeld, P.E., and Suffet I.H. (2004). Control of Compost Odor Using High Carbon Wood Ash. *Water Science and Technology*. 49(9),171-178.

Rosenfeld P. E., J.J. Clark, I.H. (Mel) Suffet (2004). The Value of An Odor-Quality-Wheel Classification Scheme For The Urban Environment. *Water Environment Federation's Technical Exhibition and Conference (WEFTEC) 2004.* New Orleans, October 2-6, 2004.

Rosenfeld, P.E., and Suffet, I.H. (2004). Understanding Odorants Associated With Compost, Biomass Facilities, and the Land Application of Biosolids. *Water Science and Technology*. 49(9), 193-199.

Rosenfeld, P.E., and Suffet I.H. (2004). Control of Compost Odor Using High Carbon Wood Ash, *Water Science and Technology*, 49(9), 171-178.

Rosenfeld, P. E., Grey, M. A., Sellew, P. (2004). Measurement of Biosolids Odor and Odorant Emissions from Windrows, Static Pile and Biofilter. *Water Environment Research*. 76(4), 310-315.

Rosenfeld, P.E., Grey, M and Suffet, M. (2002). Compost Demonstration Project, Sacramento California Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Integrated Waste Management Board Public Affairs Office*, Publications Clearinghouse (MS–6), Sacramento, CA Publication #442-02-008.

Rosenfeld, P.E., and C.L. Henry. (2001). Characterization of odor emissions from three different biosolids. *Water Soil and Air Pollution*. 127(1-4), 173-191.

Rosenfeld, P.E., and Henry C. L., (2000). Wood ash control of odor emissions from biosolids application. *Journal of Environmental Quality*. 29, 1662-1668.

Rosenfeld, P.E., C.L. Henry and D. Bennett. (2001). Wastewater dewatering polymer affect on biosolids odor emissions and microbial activity. *Water Environment Research*. 73(4), 363-367.

Rosenfeld, P.E., and C.L. Henry. (2001). Activated Carbon and Wood Ash Sorption of Wastewater, Compost, and Biosolids Odorants. *Water Environment Research*, 73, 388-393.

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Rosenfeld, P.E., and Henry C. L., (2001). High carbon wood ash effect on biosolids microbial activity and odor. *Water Environment Research*. 131(1-4), 247-262.

Chollack, T. and **P. Rosenfeld. (**1998). Compost Amendment Handbook For Landscaping. Prepared for and distributed by the City of Redmond, Washington State.

Rosenfeld, P. E. (1992). The Mount Liamuiga Crater Trail. *Heritage Magazine of St. Kitts*, 3(2).

Rosenfeld, P. E. (1993). High School Biogas Project to Prevent Deforestation On St. Kitts. *Biomass Users Network*, 7(1).

Rosenfeld, P. E. (1998). Characterization, Quantification, and Control of Odor Emissions From Biosolids Application To Forest Soil. Doctoral Thesis. University of Washington College of Forest Resources.

Rosenfeld, P. E. (1994). Potential Utilization of Small Diameter Trees on Sierra County Public Land. Masters thesis reprinted by the Sierra County Economic Council. Sierra County, California.

Rosenfeld, P. E. (1991). How to Build a Small Rural Anaerobic Digester & Uses Of Biogas In The First And Third World. Bachelors Thesis. University of California.

Presentations:

Rosenfeld, P.E., "The science for Perfluorinated Chemicals (PFAS): What makes remediation so hard?" Law Seminars International, (May 9-10, 2018) 800 Fifth Avenue, Suite 101 Seattle, WA.

Rosenfeld, P.E., Sutherland, A; Hesse, R.; Zapata, A. (October 3-6, 2013). Air dispersion modeling of volatile organic emissions from multiple natural gas wells in Decatur, TX. *44th Western Regional Meeting, American Chemical Society.* Lecture conducted from Santa Clara, CA.

Sok, H.L.; Waller, C.C.; Feng, L.; Gonzalez, J.; Sutherland, A.J.; Wisdom-Stack, T.; Sahai, R.K.; Hesse, R.C.; **Rosenfeld, P.E.** (June 20-23, 2010). Atrazine: A Persistent Pesticide in Urban Drinking Water. *Urban Environmental Pollution*. Lecture conducted from Boston, MA.

Feng, L.; Gonzalez, J.; Sok, H.L.; Sutherland, A.J.; Waller, C.C.; Wisdom-Stack, T.; Sahai, R.K.; La, M.; Hesse, R.C.; **Rosenfeld, P.E.** (June 20-23, 2010). Bringing Environmental Justice to East St. Louis, Illinois. *Urban Environmental Pollution.* Lecture conducted from Boston, MA.

Rosenfeld, P.E. (April 19-23, 2009). Perfluoroctanoic Acid (PFOA) and Perfluoroactane Sulfonate (PFOS) Contamination in Drinking Water From the Use of Aqueous Film Forming Foams (AFFF) at Airports in the United States. *2009 Ground Water Summit and 2009 Ground Water Protection Council Spring Meeting*, Lecture conducted from Tuscon, AZ.

Rosenfeld, P.E. (April 19-23, 2009). Cost to Filter Atrazine Contamination from Drinking Water in the United States" Contamination in Drinking Water From the Use of Aqueous Film Forming Foams (AFFF) at Airports in the United States. *2009 Ground Water Summit and 2009 Ground Water Protection Council Spring Meeting*. Lecture conducted from Tuscon, AZ.

Wu, C., Tam, L., Clark, J., **Rosenfeld, P**. (20-22 July, 2009). Dioxin and furan blood lipid concentrations in populations living near four wood treatment facilities in the United States. Brebbia, C.A. and Popov, V., eds., *Air Pollution XVII: Proceedings of the Seventeenth International Conference on Modeling, Monitoring and Management of Air Pollution*. Lecture conducted from Tallinn, Estonia.

Rosenfeld, P. E. (October 15-18, 2007). Moss Point Community Exposure To Contaminants From A Releasing Facility. *The 23rd Annual International Conferences on Soils Sediment and Water.* Platform lecture conducted from University of Massachusetts, Amherst MA.

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Rosenfeld, P. E. (October 15-18, 2007). The Repeated Trespass of Tritium-Contaminated Water Into A Surrounding Community Form Repeated Waste Spills From A Nuclear Power Plant. *The 23rd Annual International Conferences on Soils Sediment and Water*. Platform lecture conducted from University of Massachusetts, Amherst MA.

Rosenfeld, P. E. (October 15-18, 2007). Somerville Community Exposure To Contaminants From Wood Treatment Facility Emissions. The *23rd Annual International Conferences on Soils Sediment and Water*. Lecture conducted from University of Massachusetts, Amherst MA.

Rosenfeld P. E. (March 2007). Production, Chemical Properties, Toxicology, & Treatment Case Studies of 1,2,3-Trichloropropane (TCP). *The Association for Environmental Health and Sciences (AEHS) Annual Meeting*. Lecture conducted from San Diego, CA.

Rosenfeld P. E. (March 2007). Blood and Attic Sampling for Dioxin/Furan, PAH, and Metal Exposure in Florala, Alabama. *The AEHS Annual Meeting*. Lecture conducted from San Diego, CA.

Hensley A.R., Scott, A., **Rosenfeld P.E.,** Clark, J.J.J. (August 21 – 25, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *The 26th International Symposium on Halogenated Persistent Organic Pollutants – DIOXIN2006*. Lecture conducted from Radisson SAS Scandinavia Hotel in Oslo Norway.

Hensley A.R., Scott, A., **Rosenfeld P.E.,** Clark, J.J.J. (November 4-8, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *APHA 134 Annual Meeting & Exposition.* Lecture conducted from Boston Massachusetts.

Paul Rosenfeld Ph.D. (October 24-25, 2005). Fate, Transport and Persistence of PFOA and Related Chemicals. Mealey's C8/PFOA. *Science, Risk & Litigation Conference*. Lecture conducted from The Rittenhouse Hotel, Philadelphia, PA.

Paul Rosenfeld Ph.D. (September 19, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, *Toxicology and Remediation PEMA Emerging Contaminant Conference*. Lecture conducted from Hilton Hotel, Irvine California.

Paul Rosenfeld Ph.D. (September 19, 2005). Fate, Transport, Toxicity, And Persistence of 1,2,3-TCP. *PEMA Emerging Contaminant Conference*. Lecture conducted from Hilton Hotel in Irvine, California.

Paul Rosenfeld Ph.D. (September 26-27, 2005). Fate, Transport and Persistence of PDBEs. *Mealey's Groundwater Conference*. Lecture conducted from Ritz Carlton Hotel, Marina Del Ray, California.

Paul Rosenfeld Ph.D. (June 7-8, 2005). Fate, Transport and Persistence of PFOA and Related Chemicals. *International Society of Environmental Forensics: Focus On Emerging Contaminants*. Lecture conducted from Sheraton Oceanfront Hotel, Virginia Beach, Virginia.

Paul Rosenfeld Ph.D. (July 21-22, 2005). Fate Transport, Persistence and Toxicology of PFOA and Related Perfluorochemicals. *2005 National Groundwater Association Ground Water And Environmental Law Conference*. Lecture conducted from Wyndham Baltimore Inner Harbor, Baltimore Maryland.

Paul Rosenfeld Ph.D. (July 21-22, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, Toxicology and Remediation. *2005 National Groundwater Association Ground Water and Environmental Law Conference.* Lecture conducted from Wyndham Baltimore Inner Harbor, Baltimore Maryland.

Paul Rosenfeld, Ph.D. and James Clark Ph.D. and Rob Hesse R.G. (May 5-6, 2004). Tert-butyl Alcohol Liability and Toxicology, A National Problem and Unquantified Liability. *National Groundwater Association. Environmental Law Conference*. Lecture conducted from Congress Plaza Hotel, Chicago Illinois.

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Paul Rosenfeld, Ph.D. (March 2004). Perchlorate Toxicology. *Meeting of the American Groundwater Trust*. Lecture conducted from Phoenix Arizona.

Hagemann, M.F., **Paul Rosenfeld, Ph.D.** and Rob Hesse (2004). Perchlorate Contamination of the Colorado River. *Meeting of tribal representatives*. Lecture conducted from Parker, AZ.

Paul Rosenfeld, Ph.D. (April 7, 2004). A National Damage Assessment Model For PCE and Dry Cleaners. *Drycleaner Symposium. California Ground Water Association*. Lecture conducted from Radison Hotel, Sacramento, California.

Rosenfeld, P. E., Grey, M., (June 2003) Two stage biofilter for biosolids composting odor control. *Seventh International In Situ And On Site Bioremediation Symposium Battelle Conference* Orlando, FL.

Paul Rosenfeld, Ph.D. and James Clark Ph.D. (February 20-21, 2003) Understanding Historical Use, Chemical Properties, Toxicity and Regulatory Guidance of 1,4 Dioxane. *National Groundwater Association. Southwest Focus Conference. Water Supply and Emerging Contaminants*.. Lecture conducted from Hyatt Regency Phoenix Arizona.

Paul Rosenfeld, Ph.D. (February 6-7, 2003). Underground Storage Tank Litigation and Remediation. *California CUPA Forum*. Lecture conducted from Marriott Hotel, Anaheim California.

Paul Rosenfeld, Ph.D. (October 23, 2002) Underground Storage Tank Litigation and Remediation. *EPA Underground Storage Tank Roundtable*. Lecture conducted from Sacramento California.

Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Understanding Odor from Compost, *Wastewater and Industrial Processes. Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Using High Carbon Wood Ash to Control Compost Odor. *Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

Rosenfeld, P.E. and Grey, M. A. (September 22-24, 2002). Biocycle Composting For Coastal Sage Restoration. *Northwest Biosolids Management Association*. Lecture conducted from Vancouver Washington..

Rosenfeld, P.E. and Grey, M. A. (November 11-14, 2002). Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Soil Science Society Annual Conferenc*e. Lecture conducted from Indianapolis, Maryland.

Rosenfeld. P.E. (September 16, 2000). Two stage biofilter for biosolids composting odor control. *Water Environment Federation.* Lecture conducted from Anaheim California.

Rosenfeld. P.E. (October 16, 2000). Wood ash and biofilter control of compost odor. *Biofest.* Lecture conducted from Ocean Shores, California.

Rosenfeld, P.E. (2000). Bioremediation Using Organic Soil Amendments. *California Resource Recovery Association*. Lecture conducted from Sacramento California.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. *Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings*. Lecture conducted from Bellevue Washington.

Rosenfeld, P.E., and C.L. Henry. (1999). An evaluation of ash incorporation with biosolids for odor reduction. *Soil Science Society of America*. Lecture conducted from Salt Lake City Utah.

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Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Comparison of Microbial Activity and Odor Emissions from Three Different Biosolids Applied to Forest Soil. *Brown and Caldwell.* Lecture conducted from Seattle Washington.

Rosenfeld, P.E., C.L. Henry. (1998). Characterization, Quantification, and Control of Odor Emissions from Biosolids Application To Forest Soil. *Biofest.* Lecture conducted from Lake Chelan, Washington.

Rosenfeld, P.E, C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings. Lecture conducted from Bellevue Washington.

Rosenfeld, P.E., C.L. Henry, R. B. Harrison, and R. Dills. (1997). Comparison of Odor Emissions From Three Different Biosolids Applied to Forest Soil. *Soil Science Society of America*. Lecture conducted from Anaheim California.

Teaching Experience:

UCLA Department of Environmental Health (Summer 2003 through 20010) Taught Environmental Health Science 100 to students, including undergrad, medical doctors, public health professionals and nurses. Course focused on the health effects of environmental contaminants.

National Ground Water Association, Successful Remediation Technologies. Custom Course in Sante Fe, New Mexico. May 21, 2002. Focused on fate and transport of fuel contaminants associated with underground storage tanks.

National Ground Water Association; Successful Remediation Technologies Course in Chicago Illinois. April 1, 2002. Focused on fate and transport of contaminants associated with Superfund and RCRA sites.

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California Integrated Waste Management Board, April and May, 2001. Alternative Landfill Caps Seminar in San Diego, Ventura, and San Francisco. Focused on both prescriptive and innovative landfill cover design.

UCLA Department of Environmental Engineering, February 5, 2002. Seminar on Successful Remediation Technologies focusing on Groundwater Remediation.

University Of Washington, Soil Science Program, Teaching Assistant for several courses including: Soil Chemistry, Organic Soil Amendments, and Soil Stability.

U.C. Berkeley, Environmental Science Program Teaching Assistant for Environmental Science 10.

Academic Grants Awarded:

California Integrated Waste Management Board. $41,000 grant awarded to UCLA Institute of the Environment. Goal: To investigate effect of high carbon wood ash on volatile organic emissions from compost. 2001.

Synagro Technologies, Corona California: $10,000 grant awarded to San Diego State University.
Goal: investigate effect of biosolids for restoration and remediation of degraded coastal sage soils. 2000.

King County, Department of Research and Technology, Washington State. $100,000 grant awarded to University of Washington: Goal: To investigate odor emissions from biosolids application and the effect of polymers and ash on VOC emissions. 1998.

Northwest Biosolids Management Association, Washington State. $20,000 grant awarded to investigate effect of polymers and ash on VOC emissions from biosolids. 1997.

James River Corporation, Oregon: $10,000 grant was awarded to investigate the success of genetically engineered Poplar trees with resistance to round-up. 1996.

United State Forest Service, Tahoe National Forest: $15,000 grant was awarded to investigating fire ecology of the Tahoe National Forest. 1995.

Kellogg Foundation, Washington D.C. $500 grant was awarded to construct a large anaerobic digester on St. Kitts in West Indies. 1993

Deposition and/or Trial Testimony:

In the Superior Court of the State of California, County of San Bernardino
Billy Wildrick, Plaintiff vs. BNSF Railway Company
Case No. CIVDS1711810
Rosenfeld Deposition 10-17-2022

In the State Court of Bibb County, State of Georgia
Richard Hutcherson, Plaintiff vs Norfolk Southern Railway Company
Case No. 10-SCCV-092007
Rosenfeld Deposition 10-6-2022

In the Civil District Court of the Parish of Orleans, State of Louisiana
Millard Clark, Plaintiff vs. Dixie Carriers, Inc. et al.
Case No. 2020-03891
Rosenfeld Deposition 9-15-2022

In The Circuit Court of Livingston County, State of Missouri, Circuit Civil Division
Shirley Ralls, Plaintiff vs. Canadian Pacific Railway and Soo Line Railroad
Case No. 18-LV-CC0020
Rosenfeld Deposition 9-7-2022

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In The Circuit Court of the 13th Judicial Circuit Court, Hillsborough County, Florida Civil Division
Jonny C. Daniels, Plaintiff vs. CSX Transportation Inc.
Case No. 20-CA-5502
Rosenfeld Deposition 9-1-2022

In The Circuit Court of St. Louis County, State of Missouri
Kieth Luke et. al. Plaintiff vs. Monsanto Company et. al.
Case No. 19SL-CC03191
Rosenfeld Deposition 8-25-2022

In The Circuit Court of the 13th Judicial Circuit Court, Hillsborough County, Florida Civil Division
Jeffery S. Lamotte, Plaintiff vs. CSX Transportation Inc.
Case No. NO. 20-CA-0049
Rosenfeld Deposition 8-22-2022

In State of Minnesota District Court, County of St. Louis Sixth Judicial District
Greg Bean, Plaintiff vs. Soo Line Railroad Company
Case No. 69-DU-CV-21-760
Rosenfeld Deposition 8-17-2022

In United States District Court Western District of Washington at Tacoma, Washington
John D. Fitzgerald Plaintiff vs. BNSF
Case No. 3:21-cv-05288-RJB
Rosenfeld Deposition 8-11-2022

In Circuit Court of the Sixth Judicial Circuit, Macon Illinois
Rocky Bennyhoff Plaintiff vs. Norfolk Southern
Case No. 20-L-56
Rosenfeld Deposition 8-3-2022

In Court of Common Pleas, Hamilton County Ohio
Joe Briggins Plaintiff vs. CSX
Case No. A2004464
Rosenfeld Deposition 6-17-2022

In the Superior Court of the State of California, County of Kern
George LaFazia vs. BNSF Railway Company.
Case No. BCV-19-103087
Rosenfeld Deposition 5-17-2022

In the Circuit Court of Cook County Illinois
Bobby Earles vs. Penn Central et. al.
Case No. 2020-L-000550
Rosenfeld Deposition 4-16-2022

In United States District Court Easter District of Florida
Albert Hartman Plaintiff vs. Illinois Central
Case No. 2:20-cv-1633
Rosenfeld Deposition 4-4-2022

In the Circuit Court of the 4th Judicial Circuit, in and For Duval County, Florida
Barbara Steele vs. CSX Transportation
Case No.16-219-Ca-008796
Rosenfeld Deposition 3-15-2022

In United States District Court Easter District of New York
Romano et al. vs. Northrup Grumman Corporation
Case No. 16-cv-5760
Rosenfeld Deposition 3-10-2022

In the Circuit Court of Cook County Illinois
Linda Benjamin vs. Illinois Central
Case No. No. 2019 L 007599
Rosenfeld Deposition 1-26-2022

In the Circuit Court of Cook County Illinois
Donald Smith vs. Illinois Central
Case No. No. 2019 L 003426
Rosenfeld Deposition 1-24-2022

In the Circuit Court of Cook County Illinois
Jan Holeman vs. BNSF
Case No. 2019 L 000675
Rosenfeld Deposition 1-18-2022

In the State Court of Bibb County State of Georgia
Dwayne B. Garrett vs. Norfolk Southern
Case No. 20-SCCV-091232
Rosenfeld Deposition 11-10-2021

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In the Circuit Court of Cook County Illinois
Joseph Ruepke vs. BNSF
Case No. 2019 L 007730
Rosenfeld Deposition 11-5-2021

In the United States District Court For the District of Nebraska
Steven Gillett vs. BNSF
Case No. 4:20-cv-03120
Rosenfeld Deposition 10-28-2021

In the Montana Thirteenth District Court of Yellowstone County
James Eadus vs. Soo Line Railroad and BNSF
Case No. DV 19-1056
Rosenfeld Deposition 10-21-2021

In the Circuit Court Of The Twentieth Judicial Circuit, St Clair County, Illinois
Martha Custer et al.cvs. Cerro Flow Products, Inc.
Case No. 0i9-L-2295
Rosenfeld Deposition 5-14-2021
Trial October 8-4-2021

In the Circuit Court of Cook County Illinois
Joseph Rafferty vs. Consolidated Rail Corporation and National Railroad Passenger Corporation d/b/a AMTRAK,
Case No. 18-L-6845
Rosenfeld Deposition 6-28-2021

In the United States District Court For the Northern District of Illinois
Theresa Romcoe vs. Northeast Illinois Regional Commuter Railroad Corporation d/b/a METRA Rail
Case No. 17-cv-8517
Rosenfeld Deposition 5-25-2021

In the Superior Court of the State of Arizona In and For the Cunty of Maricopa
Mary Tryon et al. vs. The City of Pheonix v. Cox Cactus Farm, L.L.C., Utah Shelter Systems, Inc.
Case No. CV20127-094749
Rosenfeld Deposition 5-7-2021

In the United States District Court for the Eastern District of Texas Beaumont Division
Robinson, Jeremy et al vs. CNA Insurance Company et al.
Case No. 1:17-cv-000508
Rosenfeld Deposition 3-25-2021

In the Superior Court of the State of California, County of San Bernardino
Gary Garner, Personal Representative for the Estate of Melvin Garner vs. BNSF Railway Company.
Case No. 1720288
Rosenfeld Deposition 2-23-2021

In the Superior Court of the State of California, County of Los Angeles, Spring Street Courthouse
Benny M Rodriguez vs. Union Pacific Railroad, A Corporation, et al.
Case No. 18STCV01162
Rosenfeld Deposition 12-23-2020

In the Circuit Court of Jackson County, Missouri
Karen Cornwell, Plaintiff, vs. Marathon Petroleum, LP, Defendant.
Case No. 1716-CV10006
Rosenfeld Deposition 8-30-2019

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In the United States District Court For The District of New Jersey
Duarte et al, Plaintiffs, vs. United States Metals Refining Company et. al. Defendant.
Case No. 2:17-cv-01624-ES-SCM
Rosenfeld Deposition 6-7-2019

In the United States District Court of Southern District of Texas Galveston Division
M/T Carla Maersk vs. Conti 168., Schiffahrts-GMBH & Co. Bulker KG MS "Conti Perdido" Defendant.
Case No. 3:15-CV-00106 consolidated with 3:15-CV-00237
Rosenfeld Deposition 5-9-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica
Carole-Taddeo-Bates et al., vs. Ifran Khan et al., Defendants
Case No. BC615636
Rosenfeld Deposition 1-26-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica
The San Gabriel Valley Council of Governments et al. vs El Adobe Apts. Inc. et al., Defendants
Case No. BC646857
Rosenfeld Deposition 10-6-2018; Trial 3-7-19

In United States District Court For The District of Colorado
Bells et al. Plaintiffs vs. The 3M Company et al., Defendants
Case No. 1:16-cv-02531-RBJ
Rosenfeld Deposition 3-15-2018 and 4-3-2018

In The District Court Of Regan County, Texas, 112th Judicial District
Phillip Bales et al., Plaintiff vs. Dow Agrosciences, LLC, et al., Defendants
Cause No. 1923
Rosenfeld Deposition 11-17-2017

In The Superior Court of the State of California In And For The County Of Contra Costa
Simons et al., Plaintifs vs. Chevron Corporation, et al., Defendants
Cause No. C12-01481
Rosenfeld Deposition 11-20-2017

In The Circuit Court Of The Twentieth Judicial Circuit, St Clair County, Illinois
Martha Custer et al., Plaintiff vs. Cerro Flow Products, Inc., Defendants
Case No.: No. 0i9-L-2295
Rosenfeld Deposition 8-23-2017

In United States District Court For The Southern District of Mississippi
Guy Manuel vs. The BP Exploration et al., Defendants
Case No. 1:19-cv-00315-RHW
Rosenfeld Deposition 4-22-2020

In The Superior Court of the State of California, For The County of Los Angeles
Warrn Gilbert and Penny Gilber, Plaintiff vs. BMW of North America LLC
Case No. LC102019 (c/w BC582154)
Rosenfeld Deposition 8-16-2017, Trail 8-28-2018

In the Northern District Court of Mississippi, Greenville Division
Brenda J. Cooper, et al., Plaintiffs, vs. Meritor Inc., et al., Defendants
Case No. 4:16-cv-52-DMB-JVM
Rosenfeld Deposition July 2017

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In The Superior Court of the State of Washington, County of Snohomish
Michael Davis and Julie Davis et al., Plaintiff vs. Cedar Grove Composting Inc., Defendants
Case No. 13-2-03987-5
Rosenfeld Deposition, February 2017
Trial March 2017

In The Superior Court of the State of California, County of Alameda
Charles Spain., Plaintiff vs. Thermo Fisher Scientific, et al., Defendants
Case No. RG14711115
Rosenfeld Deposition September 2015

In The Iowa District Court In And For Poweshiek County
Russell D. Winburn, et al., Plaintiffs vs. Doug Hoksbergen, et al., Defendants
Case No. LALA002187
Rosenfeld Deposition August 2015

In The Circuit Court of Ohio County, West Virginia
Robert Andrews, et al. v. Antero, et al.
Civil Action No. 14-C-30000
Rosenfeld Deposition June 2015

In The Iowa District Court for Muscatine County
Laurie Freeman et. al. Plaintiffs vs. Grain Processing Corporation, Defendant
Case No. 4980
Rosenfeld Deposition May 2015

In the Circuit Court of the 17th Judicial Circuit, in and For Broward County, Florida
Walter Hinton, et. al. Plaintiff, vs. City of Fort Lauderdale, Florida, a Municipality, Defendant.
Case No. CACE07030358 (26)
Rosenfeld Deposition December 2014

In the County Court of Dallas County Texas
Lisa Parr et al, Plaintiff, vs. Aruba et al, Defendant.
Case No. cc-11-01650-E
Rosenfeld Deposition: March and September 2013
Rosenfeld Trial April 2014

In the Court of Common Pleas of Tuscarawas County Ohio
John Michael Abicht, et al., Plaintiffs, vs. Republic Services, Inc., et al., Defendants
Case No. 2008 CT 10 0741 (Cons. w/ 2009 CV 10 0987)
Rosenfeld Deposition October 2012

In the United States District Court for the Middle District of Alabama, Northern Division
James K. Benefield, et al., Plaintiffs, vs. International Paper Company, Defendant.
Civil Action No. 2:09-cv-232-WHA-TFM
Rosenfeld Deposition July 2010, June 2011

In the Circuit Court of Jefferson County Alabama
Jaeanette Moss Anthony, et al., Plaintiffs, vs. Drummond Company Inc., et al., Defendants
Civil Action No. CV 2008-2076
Rosenfeld Deposition September 2010

In the United States District Court, Western District Lafayette Division
Ackle et al., Plaintiffs, vs. Citgo Petroleum Corporation, et al., Defendants.
Case No. 2:07CV1052
Rosenfeld Deposition July 2009

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Response to Comment Letter O-2

Blum, Collins & Ho LLP
Gary Ho
September 12, 2024

O-2.1 This comment is introductory and nature and does not raise any comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. The comment requests that the commenter be added to the public interest list for future project notifications. This action has been taken.

O-2.2 This comment summarizes the proposed project. It does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-2.3 This comment asserts that the Project Description does not include detailed building elevations, a detailed site plan, floor plans, or a conceptual grading plan and that the exclusion of these figures and certain information from Figure 2-4, Site Plan, renders the EIR inadequate as an informational document because meaningful analysis cannot be ascertained based on the information provided in the DEIR. See Response O-2.4 for a discussion of building elevations and grading plans.

The intent of Figure 2-4, Site Plan is to provide the reader with an appropriate level of detail to easily understand the major elements of the proposed project, not to depict every detail of the project. The information cited by the commenter can be found either elsewhere in the EIR or in the Draft Specific Plan, which is incorporated by reference into the EIR. Site coverage is discussed in Section 3.7.4, Impact Analysis, Threshold HYD-1 of Section 3.7, Hydrology and Water Quality. Parking requirements are described in Section 5.7, Vehicle Parking, of the Draft Specific Plan, and Floor Area Ratio (FAR) is described Section 5.3, Development Standards, of the Draft Specific Plan.

O-2.4 The comment states that building elevations were not included in the Draft EIR and that they are vital to review the maximum building heights. The building height is described in Section 2.5.1, Project Components, of the Draft EIR. Additionally, Figure 2-5, Architectural Features provides renderings of the project structure which clearly depict the scale and height of the building in relation to its surroundings. This provides sufficient information for the reader to understand the maximum height of the building.

The comment also states that the Draft EIR does not include grading plans and does not provide information on the quantity of cut/fill material during grading which is necessary to inform the quantity of truck hauling trips during grading. Grading plans were included in the Draft Specific Plan, which is incorporated by reference into the EIR. No haul trips were included during grading because the project site would be balanced.

The comment requests a revised EIR that includes a detailed floorplan, grading plan, building elevations and project narrative. The paragraphs above address the grading plan and building elevations. A detailed floorplan is not necessary to adequately assess and

disclose project impacts. Section 2.5.1 describes the location, square footage and other relevant details of each project use. Chapter 2 of the Draft EIR provides a detailed project narrative with sufficient information for a reader to understand the proposed project and to allow for meaningful analysis throughout the Draft EIR, consistent with the requirements outlined in Section 15124 of the CEQA Guidelines.

O-2.5 The comment states that the Draft EIR excluded the 1450 Artesia Specific Plan and Development Agreement and therefore does not comply with CEQA Guidelines 15121 and California Public Resources Code 21003(b). It further asserts that incorporation by reference, as allowed under CEQA Guidelines Section 15150 (f), is inadequate. It is not common practice nor is it a requirement that subject specific plans and/or development agreements be included as appendices to CEQA documents. The incorporation by reference of the Draft 1450 Artesia Specific Plan is appropriate, as allowed under CEQA Guidelines Section 15150 (f). Additionally, the Draft 1450 Artesia Specific Plan was readily available for review alongside the Draft EIR. The link provided in the Notice of Availability for the Draft EIR directs to a page on the City's website that contains links to both the Draft 1450 Artesia Specific Plan and the DEIR, appendices and associated notices. Additionally, all physical components of the Draft Specific Plan were discussed and analyzed in the Draft EIR and the Development Agreement does not contain any information that requires analysis pursuant to CEQA.

O-2.6 The comment generally states the proposed project would generate air pollution in an area with high pollution burden under existing conditions. As discussed in Draft EIR pages 3.1-30 to 3.1-31, and 3.1-33 to 3.1-35, the proposed project would not exceed any South Coast Air Quality Management District (SCAQMD) regional or localized thresholds of significance for criteria pollutants. The SCAQMD's criteria pollutant emissions thresholds are based on the national ambient air quality standards (NAAQS) and California Ambient Air Quality Standards CAAQS) to protect human health. Thus, projects that do not exceed SCAQMD thresholds are not anticipated to result in human health effects or impacts.

The project's Health Risk Assessment (HRA) also evaluated potential carcinogenic and non-carcinogenic impacts to sensitive receptors in the site vicinity. Impacts at sensitive receptors were determined to be less than significant with implementation of MM AQ-1 (Tier 4 Construction Equipment) and MM AQ-2 (Electric Cargo Handling Equipment). Thus, there would be no health-related impacts from air pollution or other sources as a result of the proposed project.

O-2.7 The comment states that the project's census tract ranks in the 91st percentile for solid waste impacts and the 67th percentile for hazardous waste facility impacts and that these facilities can expose people to hazards and pose a health risk to nearby populations. This comment is noted, and in fact the project, in part, helps redevelop a contaminated site that has been polluting the surrounding land uses and environment. However, the comment does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-2.8 The comment states that the project's census tract ranks in the 96th percentile for impaired waters and 87th percentile for groundwater threats and that these pollutants can be harmful to wildlife and people. This comment is noted, and in fact the project, in part, helps redevelop a contaminated site that has been polluting the surrounding land uses and environment. However, the comment does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-2.9 The comment states that the project's census tract ranks in the 89th percentile for cleanup site impacts. It states that these sites should be cleaned up, that they expose nearby populations to chemicals and that some studies have shown that neighborhoods with cleanup sites are generally poorer and have more people of color than other neighborhoods. This comment is noted, and in fact the project, in part, helps redevelop a contaminated site that has been polluting the surrounding land uses and environment. The Draft EIR describes the existing site contamination and the cleanup that would occur prior to implementation of the proposed project under a Department of Toxic Substances Control-approved Final Remedial Action Plan. However, the comment does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-2.10 The comment states various statistics related to the diversity, education and socioeconomic status of the project's census tract. It states that poor communities are often located in areas with high levels of pollution and that living in poverty can precipitate health impacts. This comment is noted, and in fact the project, in part, helps redevelop a contaminated site that has been polluting the surrounding land uses and environment. However, the comment does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-2.11 The comment states that the project's census tract, as well as surrounding census tracts, are identified as Disadvantaged Communities. It states that the Draft EIR does not discuss this fact or utilize it in the analysis and that it should be included in a revised EIR. This comment is noted. However, as shown throughout Chapter 3 of the Draft EIR, the proposed project would not cause any significant and unavoidable impacts aside from temporary significant construction noise impacts to immediately adjacent residential receptors. Therefore, there would be no ongoing significant impacts to the surrounding community, regardless of whether it is identified as a Disadvantaged Community. Therefore, the information is not pertinent to the analysis. Additionally, as described in CEQA Guidelines Section 15131, social and economic effects are not treated as significant effects on the environment under CEQA unless they result in a physical change, which is not the case for the proposed project.

O-2.12 The comment questions the validity of the energy calculations and analysis in the Draft EIR and states project energy consumption should be quantified using one of the following approved Title 24 models: CBECC-Com, EnergyPro, and/or IES VE. Project energy consumption was calculated using CalEEMod output files and CARB EMFAC2021 data to analyze potential energy impacts in accordance with the State CEQA Guidelines. The State

CEQA Guidelines do not require energy analyses to utilize Title 24 modeling programs to evaluate environmental impacts. As discussed in Section 3.3, Energy, of the Draft EIR, energy consumption from the project would be nominal and would not cause a wasteful, inefficient, and/or unnecessary consumption of energy during Project construction, operation, and/or maintenance, or preempt future energy development or future energy conservation.

O-2.13 The comment asserts that the Draft EIR cumulative analysis should be revised to include analysis of projects approved since adoption of the City's General Plan and projects "in the pipeline" to assess whether the project would exceed the General Plan buildout scenario. As discussed in Chapter 3, Environmental Analysis, as per CEQA Guidelines Section 15130(b), cumulative analysis can be based on either (A) a list of past, present, and reasonably anticipated future projects producing related or cumulative impacts, including those projects outside the control of the agency; or (B) a summary of projections contained in an adopted general plan or related planning document that is designed to evaluate regional or area wide conditions. Chapter 3, Table 3-1 of the Draft EIR includes a comprehensive list of cumulative projects including past, present, and reasonably anticipated future projects, consistent with CEQA Guidelines Section 15130(b), option (A), which were considered in the cumulative analyses throughout Chapter 3. As such, the cumulative analyses were conducted consistent with the requirements of CEQA Guidelines Section 15130.

O-2.14 The comment asserts that due to modeling errors and unsupported modeling, the consistency analysis for SCAG's 2020-2045 Connect SoCal RTP/SCS is invalid. As discussed in detail in Response O-2.12 and Responses O-2.33 through O-2.39, the modeling in the Draft EIR is adequate and appropriate. Therefore, as supported by the results of the modeling, the consistency analysis in the Draft EIR is accurate, and no changes or revisions to the EIR are required in response to this comment.

O-2.15 The comment asserts that the EIR does not provide substantial or meaningful evidence to support the claim that the project does not conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect and lists ten General Plan Policies and Goals whose consistency it claims are not supported. Table 3.8-2, Consistency with Applicable City of Gardena General Plan Policies, includes a consistency analysis of all General Plan Policies that were determined to be applicable to the proposed project. The majority of the Goals and Policies cited in the comment are not applicable to the project. However, in response to this comment, the consistency analysis for LU Goal 2, LU Goal 3, DS Goal 4 and DS 4.5 have been added to Table 3.8-2. The title of Table 3.8-2 has also been revised as shown below. As shown in the revised Table 3.8-2, the additional analysis does not result in any new or different environmental impacts than those already addressed in the Draft EIR.

The following revisions have been made to Table 3.8-2:

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Goals and Policies

LU Goal 2: Develop and preserve high quality commercial centers and clean industrial uses that benefit the City's tax base, create jobs and provide a full range of services to the residents and businesses.	**Consistent.** The Project's Specific Plan includes Development Standards and Design Guidelines that support this policy, including architectural standards, landscaping requirements and maintenance standards.
LU Goal 3: Provide high quality, attractive and well-maintained commercial, industrial, and public environments that enhance the image and vitality of the City.	**Consistent.** The Project's Specific Plan includes Development Standards and Design Guidelines that support this policy, including architectural standards, landscaping requirements and maintenance standards.
DS Goal 4: Achieve high quality design for commercial uses.	**Consistent.** The Project's Specific Plan includes Development Standards and Design Guidelines that support this policy, including architectural standards, landscaping requirements and design principles.
DS 4.5: New or remodeled commercial structures and properties should be designed to reflect the City's architectural diversity, yet be compatible with nearby existing buildings.	**Consistent.** The Project's Specific Plan includes Development Standards and Design Guidelines that support this policy. As stated in the Specific Plan's Summary Statement, "the Project is designed to be compatible with adjacent and anticipated land uses and to redevelop parcels that are underutilized due to impacts from former releases of hazardous substances and waste."

0-2.16 The comment asserts that a conclusion of consistency with General Plan policies based on implementation of the 1450 Artesia Specific Plan is invalid because the Specific Plan was not included as an appendix to the Draft EIR. See Response 0-2.5 for a discussion of the appropriateness of incorporating the Specific Plan by reference.

0-2.17 The comment reiterates the City's VMT Guidelines. No response is required.

0-2.18 The comment states that, because the industrial portion of the project has an FAR of 0.26, it would not screen out from a project-level VMT analysis, as the City's VMT Guidelines state that screening out may not be appropriate if the project's FAR is less than 0.75. Please see below errata for the third paragraph on page 3.10-11 as well as the third full paragraph on page 3.10-12 of the Draft EIR, confirming the project would meet the Project Type screening:

~~The Project's industrial and self-storage land use components (as shown in Appendix J2 and J3) are estimated to generate more than 110 daily vehicle trips; thus, the industrial~~

~~and self-storage uses are not screened out initially based on Project Type screening. The Project's office component is estimated to generate less than 110 daily vehicle trips; hence it will be screened out. Alternatively, this component could be developed as retail use. As mentioned above, local-serving retail use less than 50,000 square feet would screen out of conducting a detailed VMT analysis.~~

Based on the VMT screening, the Project's special events component, along with the office and industrial uses would screen out of a VMT analysis using Project Type Screening criteria and would result in a less-than-significant VMT impact. Only the self-storage components of the Project would not initially screen out based on the three screening criteria and would require a VMT analysis. Therefore, a VMT impact analysis was conducted for the self-storage use.

O-2.19 The comment states that the project's VMT analysis concerning the self-storage component is too speculative and does not provide sufficient evidence that the self-storage use would reduce trip lengths. Adding a new self-storage facility in the region would reduce Vehicle Miles Traveled (VMT) by providing more localized access to storage, minimizing the need for longer trips. Customer-based land uses, like self-storage, are designed to minimize trip distances by being located near the highest demand areas. As shown in the Exhibit 4 of the project's VMT analysis, the project site is located outside the service areas of existing surrounding self-storage facilities, therefore by filling the gap high demand storage facilities the project would shorten trip distances and consolidate visits with other local activities. This also reduces out-of-region travel for those seeking storage elsewhere, especially benefiting local residents and businesses that require convenient storage options. Over time, the proximity of the new facility would encourage more efficient travel patterns, ultimately lowering VMT in the area. Thus, it is appropriate to assume that the project would have a less-than-significant VMT impact.

O-2.20 The comment states that the project's Special Event component VMT analysis lacks evidence that it would result in less-than-significant impacts, and these special events "are not locally-serving activities". The commenter has not provided any substantial evidence that farmers markets, mobile vaccination events, food giveaways, or other types of events listed would attract non-locals. These events are City-organized, City-sponsored, and intended for City residents and residents of nearby communities.

O-2.21 The comment states that the EIR fails to evaluate potential hazards from design features such as truck turning, and that no truck turning exhibits are provided within the EIR. The Specific Plan was posted to the City's website along with the Draft EIR for public review and is incorporated by reference as noted in the Project Description. As provided in the Project Description, Figures 2-8a and 2-8b depict the project's truck/trailer site access and on-site circulation under typical conditions (Figure 2-8a) and special events (Figure 2-8b), in addition to the site's driveway and drive aisle measurements, and turn radii along the on-site truck route. Based on the information contained in those figures, the project has been designed consistent with the City's Standard Plans for driveway spacing (ST-1) and commercial driveway widths (ST-2 and ST-3). The on-site truck turn radii shown on the site plan is consistent with truck turn radii specifications in Table 2-5a – Minimum Turning Radii of Design Vehicles of the American Association of State Highway Transportation

Officials (AASHTO) A Policy on Geometric Design of Highways and Streets, 7th Edition (The Green Book, 2018). During special events, two-way truck traffic would occur along the internal drive aisle. During those times, truck traffic generated by the project would be very low thus allowing trucks to adequately maneuver around each other in the drive aisle without impeding on-site pedestrian and passenger-car traffic.

With regard to project truck traffic on adjacent streets, Artesia Boulevard, Western Avenue, and Vermont Avenue are classified as Arterial roadways in the City's General Plan, Circulation Plan (updated 2020). Per the Circulation Plan, Arterials connect traffic from smaller roadways to freeway interchanges and regional roadway corridors, serve regional bus transit routes, and are the primary truck routes in the community. Therefore, Artesia Boulevard, where the project would have primary truck access, is designed to accommodate truck traffic generated by the project. Regarding the six on-site parking spaces within the gated warehouse truck loading area, those spaces are for the employees of the proposed warehouse use who will have direct access to the warehouse portion of the site. Since access to those six spaces would be gated on both sides, patrons of the self-storage facility would not be able to use those spaces and therefore would not be interacting with on-site truck traffic. Based on the project being consistent with the City's Standards on driveways and access, AASHTO's truck turn radii standards, and the provision of internal gates preventing self-storage patrons entering the warehouse's truck loading area, impacts to truck access and circulation would still be less than significant.

O-2.22 The comment states that the project does not evaluate horizontal and vertical sight distance at project driveways and adjacent streets. As noted in the project's Local Transportation Assessment, the project's trips were analyzed at intersections and roadway segments identified in cooperation with the City through a Traffic Scoping Agreement. The project's Local Transportation Analysis found that the project would not require any roadway improvements. The commenter has not provided substantial evidence that vertical or horizontal sight distances would be impeded by the project such that a significant environmental impact would occur.

O-2.23 The comment asserts that the EIR does not provide a source calculation for the number of employees that would be supported during project operations and suggests a calculation based on SCAG's Employment Density Study. However, the generation rates used in the comment's calculations do not accurately reflect the project's intended operations. Specifically, the use of the Other Retail/Service generation rate is not appropriate for the self-storage use because its use would artificially inflate the number of employees. Self-storage uses generate very few employees and absent a published generation rate for this specific use, the applicant's experience with similar projects was utilized to estimate the number of employees. The applicant's estimate was three employees for 186,000 gross square feet (GSF) of self-storage. Additionally, the use of the Light Manufacturing generation rate is not appropriate for the warehouse uses proposed and its use would artificially inflate the number of employees. The number of employees for 72,000 sf of industrial and 10,000 sf of office/retail was estimated based on the applicant's market estimation and determined to be 37 employees. Section 4.2.11, Population and Housing of Chapter 4, Other CEQA Considerations, includes a detailed

comparison of project's estimated employment to the Demographics and Growth Forecast technical report in SCAG's 2020–2045 RTP/SCS. According to this report, the City had 29,300 jobs in 2016 and is expected to accommodate 32,100 jobs by 2045 (SCAG 2020), an increase of approximately 2,800 jobs. The project is expected to be operational in approximately the fall of 2025. Assuming that the City keeps pace with SCAG's growth projections and that growth is evenly divided across the planning horizon (approximately 96.5 jobs per year), the City is expected to experience an increase of approximately 193 jobs between 2023 and the time of project buildout (2025). The employment provided by the project upon project buildout would fall within these projections. Assuming that the project would accommodate new businesses in the City (as opposed to businesses that relocate from elsewhere in the City), the project's 40 jobs would equate to approximately 1.4% of the total employment growth that is projected to occur between 2020 and 2045 and approximately 21% of the growth that is expected to occur between 2023 and the project's anticipated buildout year (2025).

O-2.24 The comment asserts that based on the employee generation of 558 employees the commenter has calculated, the proposed project would represent 19.9% of the City's employment growth from 2016-2045. It then uses this calculated number of employees to argue the need for a revised EIR. As discussed in Response O-2.23 above, the employee generation rates used in the commenter's calculations are not appropriate for the project's proposed uses and the commenter's estimate is therefore highly inflated and not reflective of the proposed project's operations. As stated in the Draft EIR and explained above, the project is estimated to generate 40 employees. As such, the arguments based on the commenter's inaccurate employee generation calculation are not valid. See Response O-2.13 for a discussion of cumulative impact analysis.

O-2.25 The comment asserts that the Draft EIR defers analysis by stating that the Los Angeles County Fire Department would review the project plans to ensure adequate emergency access as part of the building plan check process. Citing compliance with required processes or regulations does not constitute a deferral of analysis under CEQA. In addition, as part of the Project planning process, the plans have already been reviewed by the Los Angeles County Fire Department and the Project was designed to meet its recommendations. Additionally, the commenter's interpretation that any minor changes to design that may come out of a project's plan check process constitute a deferral of analysis would mean that projects could not be assessed pursuant to CEQA until after the plan check process has been completed. This interpretation is not reasonable and is in direct conflict with CEQA Guidelines Section 15004 (b), which states that environmental documents should be prepared as early as feasible in the planning process to enable environmental considerations to influence project program and design and yet late enough to provide meaningful information for environmental assessment. Any minor changes to project design resulting from the plan check process, including review by the Los Angeles County Fire Department, would not change the project such that the information provided in the Draft EIR is not meaningful.

O-2.26 The comment asserts that the proposed project would add 588 employees, which constitutes 19.9% of the City's employment growth from 2016-2045. The calculations and conclusions in the comment rely on the commenter's inaccurate and inflated calculation of the proposed project's operational employment. See Response O-2.23 for a detailed discussion of the project's operational employment. The comment also asserts that the cumulative analysis should include projects approved since General Plan adoption and projects "in the pipeline." See Response O-2.13 for a discussion of the project's cumulative impact analysis. Lastly, the comment asserts that the EIR should be revised to include demographic and geographic information on the location of qualified workers. As discussed in Section 4.2.11, Population and Housing of Chapter 4, Other CEQA Considerations, because the project would be located in a developed area within Los Angeles County that has close access to major freeways, it is anticipated that jobs created by the Project would be filled by existing City residents or by residents of neighboring cities. Additional detail on potential employees would be speculative.

O-2.27 The comment states that the EIR must include a cumulative analysis discussion as it related to the City's General Plan, particularly because the Project EIR tiers form the General Plan EIR. The commenter is incorrect that the 1450 Artesia Specific Plan EIR tiers from the General Plan EIR. The EIR for the Project is a standalone, project-level EIR which refers to the General Plan as necessary for the analysis contained therein. Tiering, as described in CEQA Guidelines Section 15152, is limited to situations where the project is consistent with general plan and zoning of the city or county in which the project is located (15152 (e)), which is not the case for the project. See Response O-2.13 for a discussion of the project's cumulative impact analysis.

O-2.28 The comment asserts that the energy modeling for the Project is erroneous because energy consumption was not modeled in compliance with Title 24 modeling software. See response to comment O-2.12 above.

O-2.29 The comment asserts that the EIR does not adequately discuss or analyze the commitment of resources or cumulative analysis, basing the assertion on the commenter's inaccurate and inflated calculation of the project's operational employment. Section 4.4.1, Large Commitment of Nonrenewable Resources, assesses the project's commitment of resources based on the assumptions and calculations used for the analysis contained in the EIR. See Response O.2-23 for a detailed discussion of the project's operational employment. See Response O-2.13 for a discussion of cumulative impact analysis.

O-2.30 The comment asserts that the EIR does not analyze a reasonable range of alternatives and that it must include an alternative that that reduces all significant and unavoidable impacts to less than significant levels. Section 5.2, Alternatives Considered but Rejected includes a detailed discussion of why there is no feasible alternative that could reduce the significant an unavoidable impact to less than significant under Section 5.2.2, Avoid Significant Construction Noise Impact. Construction of any project on the western side of the project site would trigger significant and unavoidable construction noise impacts due to the presence of residential receptor immediately (15 feet) west of the project site. The only way to potentially reduce noise impacts at the adjacent receptors would be to move construction farther from the receptors, to the eastern side of the project site and to leave

the existing dilapidated structures in place. However, the Final RAP prohibits the construction of buildings on the eastern side of the project site (Cooper Sump area) due to the location of the former sump and the engineered cap that ARC will install in this area as such construction could damage the cap and impede access to it needed for its operation, maintenance and repair. Therefore, developing the project building on the eastern side of the project site is not allowed and is therefore infeasible. Additionally, the Final RAP also includes a provision for a legal land use covenant to limit future uses of the project site to be recorded on the property, which will limit futures uses to commercial and industrial uses and bar residential and other sensitive uses. The alternatives carried forward for analysis, as assessed in detail in Section 5.3, represent a reasonable range of alternatives which take into account the constraints of developing the project site.

O-2.31 The comment is a conclusionary statement which broadly restates the commenter's assertion that a revised EIR must be prepared. It does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-2.32 The comment is the introductory statement of Attachment A of the comment letter, which consists of an assessment by SWAPE of the air quality and greenhouse gas analysis conducted for the project. The comment asserts broadly that the EIR fails to adequately evaluate the project's air quality and greenhouse gas impacts. It does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-2.33 The comment states there is not enough information provided in the Draft EIR regarding CalEEMod inputs and requests the project's JSON files for CalEEMod. All CalEEMod output files are provided in the Draft EIR, which show project-specific data to quantify air quality and GHG emissions. In addition, the methodology and inputs to CalEEMod are described in detail in the methodology sections of the Air Quality and Greenhouse Gas Draft EIR Sections (Sections 3.1 and 3.5, respectively).

O-2.34 The comment states that CalEEMod inputs and project information are inconsistent and that the project's construction/operational emissions are underestimated. However, the commenter does not provide specific detail on any inconsistencies. Construction and operational emissions were modeled in CalEEMod based on applicant-provided information regarding construction schedule, site design, and general project operations, as well as the project tip generation analysis.

O-2.35 The comment suggests the Draft EIR should include air quality and GHG emissions for cold storage facilities. The project does not include any cold storage facilities. The Draft EIR incorrectly states on page 3.5-28 that the energy analysis conservatively assumes the total building area of the warehouse would be refrigerated. This is a typo and will be corrected in the Errata. Additionally, the Specific Plan prohibits refrigerated uses. No further response is required.

O-2.36 The comment questions the validity of the construction schedule and phasing used in CalEEMod. Construction emissions were calculated based on the estimated construction schedule and general construction information (e.g., disturbance acreage, demolition volumes, etc.) provided by the Applicant. As discussed in the Draft EIR, the project's construction air quality emissions are well below the SCAQMD's regional and localized thresholds of significance and would not result in any significant impacts. The commenter's request to adjust the construction schedule are unjustified, would likely result in minimal changes (if any) and would not change the significance findings of the EIR.

O-2.37 The comment states that the vehicle trips used in CalEEMod are incorrect and underestimate the project's mobile emissions. The trip generation data modeled in CalEEMod was taken directly from the project's Local Transportation Assessment (LTA). The project's daily trips were intentionally separated by vehicle type and modeled on separate land use types in CalEEMod to quantify mobile emissions by vehicle type, trip purpose, trip length, and fleet mix. The trips modeled in CalEEMod (945 daily trips) represent the maximum daily trips generated by the project (725 daily trips + 220 trips for a special event = 945 maximum daily trips) and associated air quality emissions. The project's mobile emissions comprise most of total operational air emissions, which are well below SCAQMD regional and localized thresholds. Any adjustments to the mobile traffic inputs in CalEEmod would likely result in nominal changes (if any) to the project's operational mobile emissions and would not change the significance findings of the EIR.

O-2.38 The comment states that there are unsubstantiated changes to the default operational fleet mix percentages in the CalEEMod model. See response to comment O-2.37 above.

O-2.39 The comment presents a commenter-prepared construction CalEEMod model output for a hypothetical change to the project construction schedule. There is no evidence or basis for the changes to the project construction schedule/phasing, and no further response is required.

O-2.40 The comment states the project would contribute to disproportionate health risk impacts for residents surrounding the site and environmental justice communities. As discussed in the Draft EIR, a Health Risk Assessment (HRA) was prepared for the project. Health risk impacts were assessed for the nearest residents and students (children) to the project site. According to the HRA, the maximum mitigated cancer risk would be approximately 6.71 in one million for residents and 0.66 in one million for students and would not exceed SCAQMD's cancer risk threshold of 10 in one million. SCAQMD does not currently have a separate methodology or threshold to evaluate a project's contribution to cumulative cancer risk. Instead, projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. It should also be noted that per data published by the SCAQMD in the Multiple Air Toxics Exposure Study (MATES V), the average cancer risk in the South Coast Air Basin (SCAB) continues to decline despite consistent cumulative growth in Southern California.

O-2.41 The comment states that the project's GHG emissions are incorrectly modeled, uses an outdated threshold, and the project may result in a potentially significant impact. See response to comments O-2.33 and34 and O-2.36 and37 above. Given that neither the City, CARB, nor SCAQMD have adopted a numerical threshold of significance for GHG emissions within the City or region, the approach for evaluating the Project's impacts related to GHG emissions relies on compliance with applicable plans, policies, or regulations adopted for the purpose of reducing the emissions of GHGs, which includes CARB's Scoping Plan, SCAG's RTP/SCS, and statewide 2030 and 2050 GHG reduction targets identified in SB 32 and EO S-3-05. The compliance evaluation is the sole basis for determining the significance of the project's GHG-related impacts on the environment. Analysis to the SCAQMD's recommended 3,000 MTCO2e/year threshold utilized in the Draft EIR is to illustrate compliance with the applicable plans, policies, and regulations. The SCAQMD's recommended threshold is based on the supporting analysis outlined in SCAQMD's draft GHG guidance and meeting notes and would capture 90 percent of GHG emissions from projects in the region. This type of market capture analysis captures a substantial fraction of the GHG emissions from future development to accommodate for future population and job growth and excludes small development projects that would contribute a relatively small fraction of the cumulative statewide GHG emissions. The 3,000 MTCO2e/year threshold was used to evaluate the potential for the project to result in a significant GHG emissions impact under CEQA because it has been recommended by SCAQMD and SCAQMD is an expert agency in the Southern California region. Further, the SCAQMD provides substantial evidence that the thresholds are consistent with policy goals and 2050 GHG emissions reduction targets set by the State. Specifically, the thresholds were set at levels that capture 90 percent of the GHG emissions from the above-described uses, consistent with EO S-3-05 target of reducing GHGs to 80 percent below 1990 levels by 2050. Mitigation measures were imposed to bring the project below the threshold.

O-2.42 The comment states that the DEIR's GHG analysis is unsubstantiated. See response to comments O-2.33 and 34 and O-2.36 and 37 above.

O-2.43 The comment states the Draft EIR utilizes an outdated GHG emissions threshold and that a service population threshold is more appropriate to evaluate the project's potential GHG impacts. See response to comment O-2.41 above. The service population threshold as recommended in the comment is based on statewide population and emissions data and has been invalidated by the Golden Door Properties, LLC v. County of San Diego case in 2018[1]. In addition, as discussed in Draft EIR pages 3.5-31 to 3.5-40, the proposed project would comply with the local and state GHG reductions plans with implementation of mitigation. Since the project would not conflict with any GHG reduction plans, a less than significant impact would occur.

O-2.44 The comment states the project should result in a potentially significant GHG impact and identifies a potential service population GHG threshold. See response to comment O-2.43 above.

[1] Golden Door Properties v. County of San Diego, 27 Cal. App. 5th 892 (2018).

O-2.45 The comment provides a list of potential mitigation measures to further reduce the project's air quality and GHG emissions. The Draft EIR identifies numerous air quality and GHG mitigation measures to reduce potential project impacts. The air quality and GHG mitigation measures identified in the Draft EIR effectively reduce project emissions below thresholds and reduce impacts to a less than significant level, and thus, no additional mitigation measures are necessary.

O-2.46 This comment is a disclaimer regarding the information contained in the comment letter. It does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-2.47 This comment is an attachment to the comment letter which contains construction emission calculations for the project completed by the commenter. It does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-2.48 This comment is an attachment to the comment letter which contains CalEEMod output files for a model run conducted by the commenter. It does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-2.49 This comment is an attachment to the comment letter which consists of the professional resume of Matthew F. Hagemann, P.G., C.Hg., QSD, QSP. It does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

O-2.50 This comment is an attachment to the comment letter which consists of the professional resume of Paul Rosenfeld, Ph.D. It does not raise any specific or concrete comments, questions or concerns about the adequacy of the environmental analysis included in the EIR. As such, no further response is required.

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3 Errata

The comments received by the City during the public review period for the Draft EIR included information that has resulted in several minor revisions to the text of the Draft EIR. These revisions are shown below and are categorized by section number and page number. Text from the Draft EIR that has been removed is shown in strikethrough (i.e., ~~strikethrough~~), and text that has been added as part of the Final SEIR is shown as double underlined (i.e., underline). Revisions are shown with surrounding sentences for context. These errata merely clarify and corrects minor facts and does not constitute "substantial revisions" requiring recirculation of the Draft EIR, as set forth in CEQA Guidelines, Section 15073.5.

Chapter 2, Project Description

First paragraph on Page 2-6:

Per Los Angeles County Fire Department requirements, a ~~26-foot~~ 28-foot-wide fire access lane would surround the property structure with direct access to Artesia Boulevard.

Section 3.5, Greenhouse Gas Emissions

Last bullet on Page 3.5-28:

- **Energy Consumption**. Energy consumption consists of emissions from Project consumption of electricity and natural gas. ~~Although the Project is a speculative warehouse, the analysis conservatively assumed a worst-case scenario that total building area of the warehouse would be refrigerated.~~ The Project would result in approximately 973 $MTCO_2e$/yr from energy consumption (refer to Table 3.5-6).

Section 3.8, Land Use and Planning

Table 3.8-2:

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Goals and Policies

LU Goal 2: Develop and preserve high quality commercial centers and clean industrial uses that benefit the City's tax base, create jobs and provide a full range of services to the residents and businesses.	**Consistent.** The Project's Specific Plan includes Development Standards and Design Guidelines that support this policy, including architectural standards, landscaping requirements and maintenance standards.
LU Goal 3: Provide high quality, attractive and well-maintained commercial, industrial, and public environments that enhance the image and vitality of the City.	**Consistent.** The Project's Specific Plan includes Development Standards and Design Guidelines that support this policy, including architectural standards, landscaping requirements and maintenance standards.

Table 3.8-2. Consistency with Applicable City of Gardena General Plan Goals and Policies

DS Goal 4: Achieve high quality design for commercial uses.	Consistent. The Project's Specific Plan includes Development Standards and Design Guidelines that support this policy, including architectural standards, landscaping requirements and design principles.
DS 4.5: New or remodeled commercial structures and properties should be designed to reflect the City's architectural diversity, yet be compatible with nearby existing buildings.	Consistent. The Project's Specific Plan includes Development Standards and Design Guidelines that support this policy. As stated in the Specific Plan's Summary Statement, "the Project is designed to be compatible with adjacent and anticipated land uses and to redevelop parcels that are underutilized due to impacts from former releases of hazardous substances and waste."
Noise Plan	
N 2.4: Require mitigation of all significant noise impacts as a condition of project approval.	Consistent. Construction noise impacts are significant and unavoidable yet mitigated to the extent feasible. ~~With the incorporation of MM NOI-1 during Special Events on the Project site, noise impacts during both construction and operation would be less than significant~~.

Section 3.10, Transportation

Second paragraph on Page 3.10-11 and third full paragraph on Page 3.10-12:

~~The Project's industrial and self-storage land use components (as shown in Appendix J2 and J3) are estimated to generate more than 110 daily vehicle trips; thus, the industrial and self-storage uses are not screened out initially based on Project Type screening. The Project's office component is estimated to generate less than 110 daily vehicle trips; hence it will be screened out. Alternatively, this component could be developed as retail use. As mentioned above, local-serving retail use less than 50,000 square feet would screen out of conducting a detailed VMT analysis.~~

Based on the VMT screening, the Project's special events component, along with the office and industrial uses would screen out of a VMT analysis using Project Type Screening criteria and would result in a less-than-significant VMT impact. Only the self-storage components of the Project would not initially screen out based on the three screening criteria and would require a VMT analysis. Therefore, a VMT impact analysis was conducted for the self-storage use.

Section 3.12, Utilities and Service Systems

First full paragraph on page 3.12-3:

~~Both sewer lines are~~The 21-inch sewer line in Artesia Boulevard is owned and maintained by the LACSD, while the 8-inch sewer line in South Normandie Avenue is owned and maintained by the City. The site currently connects to the 21-inch sewer main in Artesia Boulevard via a lateral connection.

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4 Mitigation Monitoring and Reporting Program

California Public Resources Code Section 21081.6 requires that, upon certification of an EIR, "the public agency shall adopt a reporting or monitoring program for the changes made to the project or conditions of project approval, adopted in order to mitigate or avoid significant effects on the environment. The reporting or monitoring program shall be designed to ensure compliance during project implementation."

This chapter contains the mitigation monitoring and reporting program (MMRP) that has been developed for the 1450 Artesia Specific Plan Project (Project or proposed Project). This MMRP has been developed in compliance with Public Resources Code Section 21081.6 and Section 15097 of the CEQA Guidelines. The Project Design Features and Mitigation Measures in the table are coded by alphanumeric identification consistent with the EIR. The following items are identified for each Project Design Feature and Mitigation Measure:

> **Monitoring.** This section of the MMRP lists the stage of the proposed Project during which the Project Design Feature or Mitigation Measure would be implemented and the stage during which proper implementation would be monitored and verified. It also lists the agency that is responsible for ensuring that the Project Design Feature or Mitigation Measure is implemented and that it is implemented properly.
>
> **Verification of Compliance.** This section of the MMRP provides a location for the implementing party and/or enforcing agency to make notes and to record their initials and the compliance date for each Project Design Feature and Mitigation Measure.

This MMRP shall be enforced throughout all phases of the Project. The Applicant or its successor shall be responsible for implementing each Project Design Feature and Mitigation Measure and shall maintain records demonstrating compliance with each Project Design Feature and Mitigation Measure.

After review and approval of the final MMRP by the Lead Agency, minor changes and modifications to the MMRP are permitted, but can only be made by the Applicant or its successors subject to Lead Agency approval. The Lead Agency, in conjunction with any appropriate agencies or departments, will determine the adequacy of any proposed change or modification. This flexibility is necessary in light of the nature of the MMRP and the need to protect the environment with a workable program. No changes will be permitted unless the MMRP continues to satisfy the requirements of CEQA, as determined by the Lead Agency.

Project Design Features (PDFs) are listed first for each environmental topic, with mitigation measures (MMs) related to each specific threshold following the PDFs.

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Air Quality						
Mitigation Measures						
MM-AQ-1. Clean Construction Equipment. Prior to issuance of grading permits, the Applicant shall prepare and submit documentation to the City of Gardena that demonstrate the following: • All off-road diesel-powered construction equipment greater than 50 horsepower meets California Air Resources Board (CARB) Tier 4 Final off-road emissions standards or, if not commercially available, meet Tier 4 Interim off-road emission standards (as shown in CARB's 2017 Off-Road Diesel Emission Factor Update for NO_x and PM). A copy of each unit's Best Available Control Technology (BACT) documentation (certified tier specification or model year	Prior to issuance of grading permits	Review and approval of plans and specifications	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
specification), and CARB or South Coast Air Quality Management District operating permit (if applicable) shall be provided to the City at the time of mobilization of each applicable unit of equipment. • Construction equipment shall be properly maintained according to manufacturer specifications. • All construction equipment and delivery vehicles shall be turned off when not in use, or limit on-site idling for no more than 5 minutes in any 1 hour. • On-site electrical hook ups to a power grid shall be provided for electric construction tools including saws, drills, and compressors, where feasible, to reduce the need for diesel powered electric generators.						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
MM-AQ-2. Electric Cargo Handling Equipment. All outdoor cargo handling equipment (such as yard trucks, hostlers, yard goats, pallet jacks, and forklifts) shall be zero emission (i.e., powered by electricity or other alternative fuels). The warehouse building shall include the necessary charging stations for cargo handling equipment. The building manager or their designee shall be responsible for enforcing these requirements.	Prior to issuance of a building permit	Review and approval of plans and specifications	Building manager or designee			
Cultural Resources						
Mitigation Measures						
MM-CUL-1. Workers Environmental Awareness Program. Prior to the start of construction activities, all construction personnel and monitors shall be trained regarding identification and treatment protocol for inadvertent discoveries of cultural resources (archaeological and tribal) and human remains. A basic	Prior to start of construction activities	Documentation of WEAP Training presentation and handout or pamphlet	City of Gardena, Consulting Tribe(s)			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
presentation and handout or pamphlet shall be prepared in order to ensure proper identification and treatment of inadvertent discoveries of cultural resources and human remains. The purpose of the Workers Environmental Awareness Program (WEAP) training is to provide specific details on the kinds of materials that may be identified during ground disturbing activities and explain the importance of and legal basis for the protection of human remains and significant cultural resources. Each worker shall also be trained in the proper procedures to follow in the event that cultural resources or human remains are uncovered during ground disturbing activities. These procedures include but are not limited to work curtailment or redirection, and the immediate contact of the site supervisor and archaeological monitoring staff.						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
MM-CUL-2. Retention of an On-Call Qualified Archaeologist. A qualified archaeologist shall be retained and on-call to respond and address any inadvertent discoveries identified Project implementation. Additionally, in consideration of the potential to encounter intact cultural deposits beneath fill soils, the qualified archaeologist shall survey the proposed Project site once fill soils have been removed to ensure no cultural deposits underly the fill layer. If is determined, based on the aforementioned survey, that cultural resources are present or may be present and may be impacted during Project construction, monitoring may be warranted. Additionally, any identified cultural resources shall be assessed and evaluated pursuant to CEQA. If it is determined that monitoring is warranted, a qualified archaeological principal investigator, meeting the Secretary of the Interior's	Prior to and during construction activities	Presence of a qualified archaeologist; Consultation between the City of Gardena and the Project Archaeologist as applicable in the event of an unanticipated discovery; Daily monitoring logs	March JPA, Consulting Tribe(s)			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Professional Qualification Standards, shall oversee and adjust monitoring efforts as needed (increase, decrease, or discontinue monitoring frequency) based on the observed potential for construction activities to encounter cultural deposits or material. The archaeological monitor will be responsible for maintaining daily monitoring logs.						
MM-CUL-3. Inadvertent Discovery Clause. In the event that potential archaeological resources (sites, features, or artifacts) are exposed during ground disturbing, all construction work occurring not less than 100 feet of the find shall immediately stop and the qualified archaeologist that has been retained on call must be notified immediately to assess the significance of the find and determine whether or not additional study is warranted. Depending upon the significance of the find under the	During ground disturbing activities	Consultation with and/or monitoring by a tribal representative as applicable in the event of an unanticipated discovery	City of Gardena, Consulting Tribe(s)			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
CEQA, the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA, additional work (e.g., preparation of an archaeological treatment plan, testing, data recovery, or monitoring) may be warranted if the resource cannot be feasibly avoided. If the discovery is Native American in nature, consultation with and/or monitoring by a tribal representative may be necessary.						
Geology and Soils						
Mitigation Measures						
MM-GEO-1. Inadvertent Discovery. In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Once documentation and collection of the	During ground disturbing activities	Presence of a paleontological monitor; Review of documentation and collection of the find	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
find is completed, the monitor will remove the rope and allow grading to recommence in the area of the find. Salvaged fossils deemed to be significant shall be donated to an accredited repository with retrievable storage such as a museum. Costs for preparing the fossils for accessioning into the accredited repository and any associated curation fees shall be paid by the Project Applicant.						
Greenhouse Gas Emissions						
Project Design Features						
PDF-GHG-1. The Project shall be designed to be all-electric and prohibit connection to natural gas infrastructure. Using electric instead of natural gas-powered appliances replaces a more emissions-intensive fossil fuel source of energy with a less emissions-intensive source of energy as electricity from the grid is increasingly transitioning to renewable sources.	Prior to issuance of a grading and/or building permit	Review and approval of plans and specifications	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Mitigation Measures						
MM-GHG-1. Establish On-Site Solar Power. Prior to the issuance of a Building permit, the Project Applicant shall provide written proof to the City of Gardena Community Development Director that the total annual electricity demand from on-site operations does not exceed 2,226,107 kWh/year. On-site electrical demand exceeding 2,226,107 kWh/year shall be supplied by on-site renewable sources (e.g., solar photovoltaic panels). Further, the Project will be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every 3 years, to incorporate improved energy efficiency technologies and methods. The Building Official, or designee shall	Prior to issuance of a building permit	Review and approval of plans and specifications	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
ensure compliance prior to the issuance of each building permit. The Title 24 Energy Efficiency Standards (Section 110.10) require buildings to be designed to have 15% of the roof area "solar ready" that will structurally accommodate later installation of rooftop solar panels. If future building operators pursue providing rooftop solar panels, they will submit plans for solar panels prior to occupancy.						
Hazards and Hazardous Materials						
Project Design Features						
PDF-HAZ-1. Remedial Action of the Gardena Sumps Site. ARC will coordinate with the Applicant to implement the Final RAP. The Final RAP includes: (a) excavation of degraded and soil-sludge mixture; (b) consolidation of this excavated mixture above the Cooper North and Cooper South Sumps; (c) grading for excavated areas; (d) grading and installation, maintenance, and repair	Prior to the start of construction activities	Review and approval of plans and specifications; Implementation of the RAP	ARC, California Department of Toxic Substances Control, City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
of an engineered cap over the Cooper North and Cooper South sumps, including stabilization, foundation, low hydraulic conductivity and erosion resistance layers; (e) installation of a retaining wall system along the north side of the Haack sump; (f) installation, operation, maintenance and repair of a soil vapor control and monitoring system that will include soil vapor probes and associated infrastructure; (g) installation, operation, maintenance and repair of a groundwater monitoring system; and (h) restoration of vegetation and site conditions. The Final RAP will be implemented before the Applicant commences construction of the proposed Project. The portion of the proposed Project site that overlaps the sump areas and the top of the engineered cap will be paved and utilized as a parking lot. The Applicant will undertake measures to protect the remedy during site operation. As part of the Final RAP, a land use covenant						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
will be established for the site to prohibit sensitive uses thereon, such as residential uses, but will permit the proposed Project's commercial and industrial uses, as well as the City's temporary uses. The Applicant will comply with all institutional controls that DTSC may require as part of the ongoing use of the site, except for those assigned to ARC as part of its Final RAP.						
PDF-HAZ-2. Vapor Intrusion Mitigation. The Applicant will install a soil vapor barrier and ventilation systems beneath the proposed structure to protect building occupants against indoor soil vapor intrusion. Vapor barrier systems will meet guidelines described in the Vapor Intrusion Mitigation Advisory published by DTSC and CalEPA in 2011 (VIMA). Vapor barriers will be designed to meet the standards outlined in the VIMA and will be in general conformance with	Prior to issuance of certificate of occupancy	Monitoring probes; Review and approval of the OM&M Plan	ARC, California Department of Toxic Substances Control, City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
General Construction, Membrane Installation, and Ventilation Trench for Passive Gas Control System Requirements of the Los Angeles County Methane Gas Mitigation Standards. The system will include a vapor barrier membrane and passive sub-slab venting system. The system will be designed by a California-licensed engineer. Monitoring probes will be installed below the barrier system, to evaluate the effectiveness of the system. An OM&M Plan will be prepared to define the ongoing sampling required to confirm the vapor intrusion mitigation system (VIMS) is operating as designed. The OM&M Plan will include a decision tree and contingency plans in the event unexpected conditions are identified.						
Mitigation Measures						
MM-HAZ-1. Pre-Demolition Hazardous Materials Abatement.	Prior to demolition activities	Review and approval of plans and specifications	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Demolition or renovation plans and contract specifications shall incorporate abatement procedures for the survey and removal of materials containing asbestos, lead, polychlorinated biphenyls, hazardous materials, hazardous wastes, and universal waste items. All abatement work shall be done in accordance with federal, state, and local regulations, including those of the U.S. Environmental Protection Agency (which regulates disposal), Occupational Safety and Health Administration, U.S. Department of Housing and Urban Development, California Occupational Safety and Health Administration (which regulates employee exposure), and the South Coast Air Quality Management District.						
MM-HAZ-2. Soil Management Plan. Prior to commencement of any earthmoving activities, a Soil Management Plan (SMP) shall be developed that addresses potential	Prior to commencement of any earthmoving activities	Review and approval of the SMP	California Department of Toxic Substances			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
impacts in soil and soil vapor from releases on or near the Project site. The SMP shall include training procedures for identification of contamination. The SMP shall describe procedures for assessment, characterization, management, and disposal of contaminated soils in accordance with all applicable state and local regulations, including SCAQMD Rules 1466, 403, and 1166. The SMP shall include health and safety measures, which may include but are not limited to periodic work breathing zone monitoring and monitoring for volatile organic compounds using a handheld organic vapor analyzer in the event impacted soils are encountered during excavation activities. The Applicant or its designee shall implement the SMP during construction activities for the proposed Project. As the site is currently under regulatory oversight by DTSC and shall likely have a land use covenant in place at the time of construction, the SMP shall be			Control, City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
submitted to DTSC for review and approval prior to earthmoving activities.						
Noise						
Mitigation Measures						
MM-NOI-1. Construction Noise. Prior to issuance of a Demolition Permit, the Applicant shall demonstrate, to the satisfaction of the City of Gardena Building Official, that the construction contracts include at least an 8-foot-high temporary noise barrier along the western Project boundary. The temporary noise barrier shall have a sound transmission class (STC) of 25 or greater in accordance with the ASTM Test Method E90, or at least 2 pounds per square foot to ensure adequate transmission loss characteristics. To achieve this, the barrier may consist of steel tubular framing, welded joints, a layer of 18-ounce tarp, a 2-inch thick fiberglass blanket, a 1/2-inch thick weatherwood asphalt sheathing, and 7/16-inch	Prior to issuance of a Demolition Permit	Review and approval of plans and specifications	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
sturdy board siding. The barrier must be free of degrading holes or gaps and shall be designed to prevent structural failure due to factors such as wind, shear, shallow soil failure, earthquakes, and erosion.						
MM-NOI-2. Special Event Noise. All City-sponsored special events shall be subject to the following requirements: ▪ Special Events shall be restricted to the hours of 7:00 a.m. to 10:00 p.m. ▪ Amplified noise sources (e.g., speakers, bandstands) shall be directed away from the nearest noise-sensitive receptors. ▪ Amplification systems will be positioned so that the tilt of the systems is downwards slightly to focus sound on the ground and prevent it from traveling up towards noise-sensitive receptors. Amplification systems will also be	Prior to issuance of a certificate of occupancy	Review and approval of plans and specifications	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
distributed to minimize sound levels closest to individual sources.						
MM-NOI-3. Construction Vibration. The Project Applicant will require contractor(s) to comply with a Vibration Management Plan and implement minimum allowable setbacks from nearby buildings/structures to the west for heavy machinery. For all new construction, the contractor(s) will not use pile drivers, pavement breakers, or blasting equipment. In addition, when construction is required in direct proximity to the residences immediately west of the Project site, the contractor(s) will observe the following minimum allowable setbacks for specified construction equipment: ▪ Small bulldozer/tractors shall not be used within 11 feet of buildings to the west; ▪ Jackhammers shall not be used within 54 feet of any buildings to the west;	Prior to issuance of a building permit	Review and approval of a Vibration Management Plan	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
▪ Loaded trucks shall not be used within 95 feet of buildings to the west; and ▪ Large bulldozers shall not be used within 105 feet of any buildings to the west.						
Tribal Cultural Resources						
Mitigation Measures						
MM-TCR-1. Native American Monitoring. A. Prior to commencement of ground-disturbing activities, the Project Applicant/lead agency shall retain a Native American Monitor from or approved by the Gabrieleño Band of Mission Indians – Kizh Nation. The monitor shall be retained prior to the commencement of any "ground-disturbing activity" for the subject Project at all Project locations (i.e., both on-site and any off-site locations that are included in the Project	Prior to commencement of ground-disturbing activities	Presence of a Native American Monitor; Submission of a copy of the monitoring agreement; Daily monitoring logs; Consultation between the Monitor and the Project Applicant	City of Gardena, Consulting Tribe(s)			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Description/definition and/or required in connection with the Project, such as public improvement work). "Ground-disturbing activity" shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching. B. A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity or the issuance of any permit necessary to commence a ground-disturbing activity. C. The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
performed, locations of ground disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the tribe. Monitoring logs will identify and describe any discovered Tribal Cultural Resources (TCRs), including, but not limited to, Native American cultural and historical artifacts, remains, and places of significance, as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitoring logs will be provided to the Project Applicant/lead agency upon written request to the tribe. D. On-site tribal monitoring shall conclude upon the latter of the following: (1) written confirmation to the monitor from a designated point of						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
contact for the Project Applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the Project site or in connection with the Project are complete; or (2) a determination and written notification by the monitor to the Project Applicant/lead agency that no future planned construction activity and/or development/construction phase at the Project site possesses the potential to impact TCRs.						
MM-TCR-2. Unanticipated Discovery of Tribal Cultural Resource Objects (Non-Funerary/Non-Ceremonial). Management strategies stipulated in MM-CUL-1 through MM-CUL-3 shall be implemented in the event that Project activities encounter cultural resources. In addition, the following TCR-specific	During ground disturbing activities	Consultation with Consulting Tribe(s) and Tribal Monitor as applicable in the event of an unanticipated discovery; Review and approval of a treatment plan as	City of Gardena, Consulting Tribe(s)			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
measures shall be implemented. Upon discovery of any TCRs or archaeological resources, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the monitor and an archaeologist meeting the Secretary of the Interior's Professional Qualification Standards for archaeology (National Park Service 1983). A. If the resources are Native American in origin, the Kizh will recover and retain all discovered TCRs in the form and/or manner the tribe deems appropriate, in the tribe's sole discretion, and for any purpose the tribe deems appropriate, including for educational, cultural and/or historic purposes. B. If the archaeologist determines that the resource meets the		applicable in the event of an unanticipated discovery				

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
criteria as a "historical resource" or "unique archaeological resource" under CEQA, time allotment and funding sufficient to allow for the implementation of avoidance measures or appropriate mitigation shall be made available. The treatment plan shall be in accordance with CEQA Guidelines § 15064.5(f) for historical resources and Public Resources Code § 21083.2(b) for unique archaeological resources. If not left in place, any historic or archaeological material that is not Native American in origin shall be curated at a public, nonprofit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum at the University of California						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Los Angeles, if such an institution agrees to accept the material. If no institution accepts the archaeological material, they shall be offered to a local school or historical society for educational purposes.						
MM-TCR-3. Unanticipated Discovery of Human Remains and Associated Funerary Objects. A. Native American human remains are defined in California Public Resources Code (PRC) Section 5097.98(d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in PRC Section 5097.98, are also to be treated according to this statute.	During ground disturbing activities	Consultation with the County Coroner, the Project Archaeologist, and Consulting Tribe(s) as applicable in the event of an unanticipated discovery of human remains	City of Gardena, Los Angeles County Coroner, Consulting Tribe(s)			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
B. If human remains and/or grave goods are discovered or recognized on the Project site, then all construction activities shall immediately cease within 200 feet of the discovery and PRC Section 5097.9 and California Health and Safety Code Section 7050.5 shall be followed. This includes among other required measures, the immediate contact of the County Coroner, the principal archaeologist retained for the Project and if the remains are potentially Native American in origin, the Gabrieleno Band of Mission Indians-Kizh Nation. C. Human remains and grave/burial goods found with such remains shall be treated alike per PRC Sections 5097.98(d)(1) and (2). D. Construction activities may resume in other parts of the						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Project site at a minimum of 200 feet away from discovered human remains and/or burial goods. This determination will be made by the construction monitor in consultation with the principal archaeologist and if the remains are potentially Native American in origin, the Gabrieleno Band of Mission Indians-Kizh Nation. No further constriction shall occur until the construction monitor and/or principal archaeologist has given expressed consent of that determination (along with any other mitigation measures the monitor and/or archaeologist deems necessary). (CEQA Guidelines Section 15064.5[f]). E. Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
MM-TCR-4. Unanticipated Discovery of Human Remains and Associated Funerary Objects. This mitigation measure shall only apply if the Gabrieleno Band of Mission Indians-Kizh Nation is designated as the Most Likely Descendant ("MLD") by the NAHC. A. The Koo-nas-gna Burial Policy shall be implemented. To the tribe, the term "human remains" encompasses more than human bones. In ancient as well as historic times, tribal traditions included, but were not limited to, the preparation of the soil for burial, the burial of funerary objects with the deceased, and the ceremonial burning of human remains. B. If the discovery of human remains includes four or more burials, the discovery location shall be treated as a cemetery	During ground disturbing activities	Consultation with the Project Archaeologist and Consulting Tribe(s) as applicable in the event of an unanticipated discovery of human remains; Review and approval of submitted documentation relating to the find including a Final Report submitted to NAHC and the Tribe	City of Gardena, Consulting Tribe(s), NAHC			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
and a separate treatment plan shall be created. C. The prepared soil and cremation soils are to be treated in the same manner as bone fragments that remain intact. Associated funerary objects are objects that, as part of the death rite or ceremony of a culture, are reasonably believed to have been placed with individual human remains either at the time of death or later; other items made exclusively for burial purposes or to contain human remains can also be considered as associated funerary objects. Cremations will either be removed in bulk or by means as necessary to ensure complete recovery of all sacred materials. D. In the case where discovered human remains cannot be fully documented and recovered on						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
the same day, the remains will be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours. The tribe will make every effort to recommend diverting the Project and keeping the remains in situ and protected. If the Project cannot be diverted, it may be determined that burials will be removed. E. In the event preservation in place is not possible despite good faith efforts by the Project Applicant/developer and/or landowner, before ground-disturbing activities may resume on the Project site, the landowner shall arrange a						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
designated site location within the footprint of the Project for the respectful reburial of the human remains and/or ceremonial objects. F. Each occurrence of human remains and associated funerary objects will be stored using opaque cloth bags. All human remains, funerary objects, sacred objects and objects of cultural patrimony will be removed to a secure container on site if possible. These items should be retained and reburied within 6 months of recovery. The site of reburial/repatriation shall be on the Project site but at a location agreed upon between the tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
G. The tribe will work closely with the Project's qualified archaeologist to ensure that the excavation is treated carefully, ethically and respectfully. If data recovery is approved by the tribe, documentation shall be prepared and shall include (at a minimum) detailed descriptive notes and sketches. All data recovery data recovery related forms of documentation shall be approved in advance by the tribe. If any data recovery is performed, once complete, a final report shall be submitted to the tribe and the NAHC. The tribe does NOT authorize any scientific study or the utilization of any invasive and/or destructive diagnostics on human remains.						

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Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Air Quality						
Mitigation Measures						
MM-AQ-1. Clean Construction Equipment. Prior to issuance of grading permits, the Applicant shall prepare and submit documentation to the City of Gardena that demonstrate the following: • All off-road diesel-powered construction equipment greater than 50 horsepower meets California Air Resources Board (CARB) Tier 4 Final off-road emissions standards or, if not commercially available, meet Tier 4 Interim off-road emission standards (as shown in CARB's 2017 Off-Road Diesel Emission Factor Update for NO_x and PM). A copy of each unit's Best Available Control Technology (BACT) documentation (certified tier specification or model year	Prior to issuance of grading permits	Review and approval of plans and specifications	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
specification), and CARB or South Coast Air Quality Management District operating permit (if applicable) shall be provided to the City at the time of mobilization of each applicable unit of equipment. • Construction equipment shall be properly maintained according to manufacturer specifications. • All construction equipment and delivery vehicles shall be turned off when not in use, or limit on-site idling for no more than 5 minutes in any 1 hour. • On-site electrical hook ups to a power grid shall be provided for electric construction tools including saws, drills, and compressors, where feasible, to reduce the need for diesel powered electric generators.						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
MM-AQ-2. Electric Cargo Handling Equipment. All outdoor cargo handling equipment (such as yard trucks, hostlers, yard goats, pallet jacks, and forklifts) shall be zero emission (i.e., powered by electricity or other alternative fuels). The warehouse building shall include the necessary charging stations for cargo handling equipment. The building manager or their designee shall be responsible for enforcing these requirements.	Prior to issuance of a building permit	Review and approval of plans and specifications	Building manager or designee			
Cultural Resources						
Mitigation Measures						
MM-CUL-1. Workers Environmental Awareness Program. Prior to the start of construction activities, all construction personnel and monitors shall be trained regarding identification and treatment protocol for inadvertent discoveries of cultural resources (archaeological and tribal) and human remains. A basic	Prior to start of construction activities	Documentation of WEAP Training presentation and handout or pamphlet	City of Gardena, Consulting Tribe(s)			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
presentation and handout or pamphlet shall be prepared in order to ensure proper identification and treatment of inadvertent discoveries of cultural resources and human remains. The purpose of the Workers Environmental Awareness Program (WEAP) training is to provide specific details on the kinds of materials that may be identified during ground disturbing activities and explain the importance of and legal basis for the protection of human remains and significant cultural resources. Each worker shall also be trained in the proper procedures to follow in the event that cultural resources or human remains are uncovered during ground disturbing activities. These procedures include but are not limited to work curtailment or redirection, and the immediate contact of the site supervisor and archaeological monitoring staff.						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
MM-CUL-2. Retention of an On-Call Qualified Archaeologist. A qualified archaeologist shall be retained and on-call to respond and address any inadvertent discoveries identified Project implementation. Additionally, in consideration of the potential to encounter intact cultural deposits beneath fill soils, the qualified archaeologist shall survey the proposed Project site once fill soils have been removed to ensure no cultural deposits underly the fill layer. If is determined, based on the aforementioned survey, that cultural resources are present or may be present and may be impacted during Project construction, monitoring may be warranted. Additionally, any identified cultural resources shall be assessed and evaluated pursuant to CEQA. If it is determined that monitoring is warranted, a qualified archaeological principal investigator, meeting the Secretary of the Interior's	Prior to and during construction activities	Presence of a qualified archaeologist; Consultation between the City of Gardena and the Project Archaeologist as applicable in the event of an unanticipated discovery; Daily monitoring logs	March JPA, Consulting Tribe(s)			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Professional Qualification Standards, shall oversee and adjust monitoring efforts as needed (increase, decrease, or discontinue monitoring frequency) based on the observed potential for construction activities to encounter cultural deposits or material. The archaeological monitor will be responsible for maintaining daily monitoring logs.						
MM-CUL-3. Inadvertent Discovery Clause. In the event that potential archaeological resources (sites, features, or artifacts) are exposed during ground disturbing, all construction work occurring not less than 100 feet of the find shall immediately stop and the qualified archaeologist that has been retained on call must be notified immediately to assess the significance of the find and determine whether or not additional study is warranted. Depending upon the significance of the find under the	During ground disturbing activities	Consultation with and/or monitoring by a tribal representative as applicable in the event of an unanticipated discovery	City of Gardena, Consulting Tribe(s)			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
CEQA, the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA, additional work (e.g., preparation of an archaeological treatment plan, testing, data recovery, or monitoring) may be warranted if the resource cannot be feasibly avoided. If the discovery is Native American in nature, consultation with and/or monitoring by a tribal representative may be necessary.						
Geology and Soils						
Mitigation Measures						
MM-GEO-1. Inadvertent Discovery. In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor will temporarily halt and/or divert grading activity to allow recovery of paleontological resources. The area of discovery will be roped off with a 50-foot radius buffer. Once documentation and collection of the	During ground disturbing activities	Presence of a paleontological monitor; Review of documentation and collection of the find	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
find is completed, the monitor will remove the rope and allow grading to recommence in the area of the find. Salvaged fossils deemed to be significant shall be donated to an accredited repository with retrievable storage such as a museum. Costs for preparing the fossils for accessioning into the accredited repository and any associated curation fees shall be paid by the Project Applicant.						
Greenhouse Gas Emissions						
Project Design Features						
PDF-GHG-1. The Project shall be designed to be all-electric and prohibit connection to natural gas infrastructure. Using electric instead of natural gas-powered appliances replaces a more emissions-intensive fossil fuel source of energy with a less emissions-intensive source of energy as electricity from the grid is increasingly transitioning to renewable sources.	Prior to issuance of a grading and/or building permit	Review and approval of plans and specifications	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Mitigation Measures						
MM-GHG-1. Establish On-Site Solar Power. Prior to the issuance of a Building permit, the Project Applicant shall provide written proof to the City of Gardena Community Development Director that the total annual electricity demand from on-site operations does not exceed 2,226,107 kWh/year. On-site electrical demand exceeding 2,226,107 kWh/year shall be supplied by on-site renewable sources (e.g., solar photovoltaic panels). Further, the Project will be designed in accordance with the applicable Title 24 Energy Efficiency Standards for Residential and Nonresidential Buildings (California Code of Regulations [CCR], Title 24, Part 6). These standards are updated, nominally every 3 years, to incorporate improved energy efficiency technologies and methods. The Building Official, or designee shall	Prior to issuance of a building permit	Review and approval of plans and specifications	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
ensure compliance prior to the issuance of each building permit. The Title 24 Energy Efficiency Standards (Section 110.10) require buildings to be designed to have 15% of the roof area "solar ready" that will structurally accommodate later installation of rooftop solar panels. If future building operators pursue providing rooftop solar panels, they will submit plans for solar panels prior to occupancy.						
Hazards and Hazardous Materials						
Project Design Features						
PDF-HAZ-1. Remedial Action of the Gardena Sumps Site. ARC will coordinate with the Applicant to implement the Final RAP. The Final RAP includes: (a) excavation of degraded and soil-sludge mixture; (b) consolidation of this excavated mixture above the Cooper North and Cooper South Sumps; (c) grading for excavated areas; (d) grading and installation, maintenance, and repair	Prior to the start of construction activities	Review and approval of plans and specifications; Implementation of the RAP	ARC, California Department of Toxic Substances Control, City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
of an engineered cap over the Cooper North and Cooper South sumps, including stabilization, foundation, low hydraulic conductivity and erosion resistance layers; (e) installation of a retaining wall system along the north side of the Haack sump; (f) installation, operation, maintenance and repair of a soil vapor control and monitoring system that will include soil vapor probes and associated infrastructure; (g) installation, operation, maintenance and repair of a groundwater monitoring system; and (h) restoration of vegetation and site conditions. The Final RAP will be implemented before the Applicant commences construction of the proposed Project. The portion of the proposed Project site that overlaps the sump areas and the top of the engineered cap will be paved and utilized as a parking lot. The Applicant will undertake measures to protect the remedy during site operation. As part of the Final RAP, a land use covenant						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
will be established for the site to prohibit sensitive uses thereon, such as residential uses, but will permit the proposed Project's commercial and industrial uses, as well as the City's temporary uses. The Applicant will comply with all institutional controls that DTSC may require as part of the ongoing use of the site, except for those assigned to ARC as part of its Final RAP.						
PDF-HAZ-2. Vapor Intrusion Mitigation. The Applicant will install a soil vapor barrier and ventilation systems beneath the proposed structure to protect building occupants against indoor soil vapor intrusion. Vapor barrier systems will meet guidelines described in the Vapor Intrusion Mitigation Advisory published by DTSC and CalEPA in 2011 (VIMA). Vapor barriers will be designed to meet the standards outlined in the VIMA and will be in general conformance with	Prior to issuance of certificate of occupancy	Monitoring probes; Review and approval of the OM&M Plan	ARC, California Department of Toxic Substances Control, City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
General Construction, Membrane Installation, and Ventilation Trench for Passive Gas Control System Requirements of the Los Angeles County Methane Gas Mitigation Standards. The system will include a vapor barrier membrane and passive sub-slab venting system. The system will be designed by a California-licensed engineer. Monitoring probes will be installed below the barrier system, to evaluate the effectiveness of the system. An OM&M Plan will be prepared to define the ongoing sampling required to confirm the vapor intrusion mitigation system (VIMS) is operating as designed. The OM&M Plan will include a decision tree and contingency plans in the event unexpected conditions are identified.						
Mitigation Measures						
MM-HAZ-1. Pre-Demolition Hazardous Materials Abatement.	Prior to demolition activities	Review and approval of plans and specifications	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Demolition or renovation plans and contract specifications shall incorporate abatement procedures for the survey and removal of materials containing asbestos, lead, polychlorinated biphenyls, hazardous materials, hazardous wastes, and universal waste items. All abatement work shall be done in accordance with federal, state, and local regulations, including those of the U.S. Environmental Protection Agency (which regulates disposal), Occupational Safety and Health Administration, U.S. Department of Housing and Urban Development, California Occupational Safety and Health Administration (which regulates employee exposure), and the South Coast Air Quality Management District.						
MM-HAZ-2. Soil Management Plan. Prior to commencement of any earthmoving activities, a Soil Management Plan (SMP) shall be developed that addresses potential	Prior to commencement of any earthmoving activities	Review and approval of the SMP	California Department of Toxic Substances			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
impacts in soil and soil vapor from releases on or near the Project site. The SMP shall include training procedures for identification of contamination. The SMP shall describe procedures for assessment, characterization, management, and disposal of contaminated soils in accordance with all applicable state and local regulations, including SCAQMD Rules 1466, 403, and 1166. The SMP shall include health and safety measures, which may include but are not limited to periodic work breathing zone monitoring and monitoring for volatile organic compounds using a handheld organic vapor analyzer in the event impacted soils are encountered during excavation activities. The Applicant or its designee shall implement the SMP during construction activities for the proposed Project. As the site is currently under regulatory oversight by DTSC and shall likely have a land use covenant in place at the time of construction, the SMP shall be			Control, City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
submitted to DTSC for review and approval prior to earthmoving activities.						
Noise						
Mitigation Measures						
MM-NOI-1. Construction Noise. Prior to issuance of a Demolition Permit, the Applicant shall demonstrate, to the satisfaction of the City of Gardena Building Official, that the construction contracts include at least an 8-foot-high temporary noise barrier along the western Project boundary. The temporary noise barrier shall have a sound transmission class (STC) of 25 or greater in accordance with the ASTM Test Method E90, or at least 2 pounds per square foot to ensure adequate transmission loss characteristics. To achieve this, the barrier may consist of steel tubular framing, welded joints, a layer of 18-ounce tarp, a 2-inch thick fiberglass blanket, a 1/2-inch thick weatherwood asphalt sheathing, and 7/16-inch	Prior to issuance of a Demolition Permit	Review and approval of plans and specifications	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
sturdy board siding. The barrier must be free of degrading holes or gaps and shall be designed to prevent structural failure due to factors such as wind, shear, shallow soil failure, earthquakes, and erosion.						
MM-NOI-2. Special Event Noise. All City-sponsored special events shall be subject to the following requirements: ▪ Special Events shall be restricted to the hours of 7:00 a.m. to 10:00 p.m. ▪ Amplified noise sources (e.g., speakers, bandstands) shall be directed away from the nearest noise-sensitive receptors. ▪ Amplification systems will be positioned so that the tilt of the systems is downwards slightly to focus sound on the ground and prevent it from traveling up towards noise-sensitive receptors. Amplification systems will also be	Prior to issuance of a certificate of occupancy	Review and approval of plans and specifications	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
distributed to minimize sound levels closest to individual sources.						
MM-NOI-3. Construction Vibration. The Project Applicant will require contractor(s) to comply with a Vibration Management Plan and implement minimum allowable setbacks from nearby buildings/structures to the west for heavy machinery. For all new construction, the contractor(s) will not use pile drivers, pavement breakers, or blasting equipment. In addition, when construction is required in direct proximity to the residences immediately west of the Project site, the contractor(s) will observe the following minimum allowable setbacks for specified construction equipment: ▪ Small bulldozer/tractors shall not be used within 11 feet of buildings to the west; ▪ Jackhammers shall not be used within 54 feet of any buildings to the west;	Prior to issuance of a building permit	Review and approval of a Vibration Management Plan	City of Gardena			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
▪ Loaded trucks shall not be used within 95 feet of buildings to the west; and ▪ Large bulldozers shall not be used within 105 feet of any buildings to the west.						
Tribal Cultural Resources						
Mitigation Measures						
MM-TCR-1. Native American Monitoring. A. Prior to commencement of ground-disturbing activities, the Project Applicant/lead agency shall retain a Native American Monitor from or approved by the Gabrieleño Band of Mission Indians – Kizh Nation. The monitor shall be retained prior to the commencement of any "ground-disturbing activity" for the subject Project at all Project locations (i.e., both on-site and any off-site locations that are included in the Project	Prior to commencement of ground-disturbing activities	Presence of a Native American Monitor; Submission of a copy of the monitoring agreement; Daily monitoring logs; Consultation between the Monitor and the Project Applicant	City of Gardena, Consulting Tribe(s)			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Description/definition and/or required in connection with the Project, such as public improvement work). "Ground-disturbing activity" shall include, but is not limited to, demolition, pavement removal, potholing, auguring, grubbing, tree removal, boring, grading, excavation, drilling, and trenching. B. A copy of the executed monitoring agreement shall be submitted to the lead agency prior to the earlier of the commencement of any ground-disturbing activity or the issuance of any permit necessary to commence a ground-disturbing activity. C. The monitor will complete daily monitoring logs that will provide descriptions of the relevant ground-disturbing activities, the type of construction activities						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
performed, locations of ground disturbing activities, soil types, cultural-related materials, and any other facts, conditions, materials, or discoveries of significance to the tribe. Monitoring logs will identify and describe any discovered Tribal Cultural Resources (TCRs), including, but not limited to, Native American cultural and historical artifacts, remains, and places of significance, as well as any discovered Native American (ancestral) human remains and burial goods. Copies of monitoring logs will be provided to the Project Applicant/lead agency upon written request to the tribe. D. On-site tribal monitoring shall conclude upon the latter of the following: (1) written confirmation to the monitor from a designated point of						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
contact for the Project Applicant/lead agency that all ground-disturbing activities and phases that may involve ground-disturbing activities on the Project site or in connection with the Project are complete; or (2) a determination and written notification by the monitor to the Project Applicant/lead agency that no future planned construction activity and/or development/construction phase at the Project site possesses the potential to impact TCRs.						
MM-TCR-2. Unanticipated Discovery of Tribal Cultural Resource Objects (Non-Funerary/Non-Ceremonial). Management strategies stipulated in MM-CUL-1 through MM-CUL-3 shall be implemented in the event that Project activities encounter cultural resources. In addition, the following TCR-specific	During ground disturbing activities	Consultation with Consulting Tribe(s) and Tribal Monitor as applicable in the event of an unanticipated discovery; Review and approval of a treatment plan as	City of Gardena, Consulting Tribe(s)			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
measures shall be implemented. Upon discovery of any TCRs or archaeological resources, all construction activities in the immediate vicinity of the discovery shall cease (i.e., not less than the surrounding 50 feet) and shall not resume until the discovered TCR has been fully assessed by the monitor and an archaeologist meeting the Secretary of the Interior's Professional Qualification Standards for archaeology (National Park Service 1983). A. If the resources are Native American in origin, the Kizh will recover and retain all discovered TCRs in the form and/or manner the tribe deems appropriate, in the tribe's sole discretion, and for any purpose the tribe deems appropriate, including for educational, cultural and/or historic purposes. B. If the archaeologist determines that the resource meets the		applicable in the event of an unanticipated discovery				

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
criteria as a "historical resource" or "unique archaeological resource" under CEQA, time allotment and funding sufficient to allow for the implementation of avoidance measures or appropriate mitigation shall be made available. The treatment plan shall be in accordance with CEQA Guidelines § 15064.5(f) for historical resources and Public Resources Code § 21083.2(b) for unique archaeological resources. If not left in place, any historic or archaeological material that is not Native American in origin shall be curated at a public, nonprofit institution with a research interest in the materials, such as the Natural History Museum of Los Angeles County or the Fowler Museum at the University of California						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Los Angeles, if such an institution agrees to accept the material. If no institution accepts the archaeological material, they shall be offered to a local school or historical society for educational purposes.						
MM-TCR-3. Unanticipated Discovery of Human Remains and Associated Funerary Objects. A. Native American human remains are defined in California Public Resources Code (PRC) Section 5097.98(d)(1) as an inhumation or cremation, and in any state of decomposition or skeletal completeness. Funerary objects, called associated grave goods in PRC Section 5097.98, are also to be treated according to this statute.	During ground disturbing activities	Consultation with the County Coroner, the Project Archaeologist, and Consulting Tribe(s) as applicable in the event of an unanticipated discovery of human remains	City of Gardena, Los Angeles County Coroner, Consulting Tribe(s)			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
B. If human remains and/or grave goods are discovered or recognized on the Project site, then all construction activities shall immediately cease within 200 feet of the discovery and PRC Section 5097.9 and California Health and Safety Code Section 7050.5 shall be followed. This includes among other required measures, the immediate contact of the County Coroner, the principal archaeologist retained for the Project and if the remains are potentially Native American in origin, the Gabrieleno Band of Mission Indians-Kizh Nation. C. Human remains and grave/burial goods found with such remains shall be treated alike per PRC Sections 5097.98(d)(1) and (2). D. Construction activities may resume in other parts of the						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
Project site at a minimum of 200 feet away from discovered human remains and/or burial goods. This determination will be made by the construction monitor in consultation with the principal archaeologist and if the remains are potentially Native American in origin, the Gabrieleno Band of Mission Indians-Kizh Nation. No further constriction shall occur until the construction monitor and/or principal archaeologist has given expressed consent of that determination (along with any other mitigation measures the monitor and/or archaeologist deems necessary). (CEQA Guidelines Section 15064.5[f]). E. Any discovery of human remains/burial goods shall be kept confidential to prevent further disturbance.						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
MM-TCR-4. Unanticipated Discovery of Human Remains and Associated Funerary Objects. This mitigation measure shall only apply if the Gabrieleno Band of Mission Indians-Kizh Nation is designated as the Most Likely Descendant ("MLD") by the NAHC. A. The Koo-nas-gna Burial Policy shall be implemented. To the tribe, the term "human remains" encompasses more than human bones. In ancient as well as historic times, tribal traditions included, but were not limited to, the preparation of the soil for burial, the burial of funerary objects with the deceased, and the ceremonial burning of human remains. B. If the discovery of human remains includes four or more burials, the discovery location shall be treated as a cemetery	During ground disturbing activities	Consultation with the Project Archaeologist and Consulting Tribe(s) as applicable in the event of an unanticipated discovery of human remains; Review and approval of submitted documentation relating to the find including a Final Report submitted to NAHC and the Tribe	City of Gardena, Consulting Tribe(s), NAHC			

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
and a separate treatment plan shall be created. C. The prepared soil and cremation soils are to be treated in the same manner as bone fragments that remain intact. Associated funerary objects are objects that, as part of the death rite or ceremony of a culture, are reasonably believed to have been placed with individual human remains either at the time of death or later; other items made exclusively for burial purposes or to contain human remains can also be considered as associated funerary objects. Cremations will either be removed in bulk or by means as necessary to ensure complete recovery of all sacred materials. D. In the case where discovered human remains cannot be fully documented and recovered on						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
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the same day, the remains will be covered with muslin cloth and a steel plate that can be moved by heavy equipment placed over the excavation opening to protect the remains. If this type of steel plate is not available, a 24-hour guard should be posted outside of working hours. The tribe will make every effort to recommend diverting the Project and keeping the remains in situ and protected. If the Project cannot be diverted, it may be determined that burials will be removed. E. In the event preservation in place is not possible despite good faith efforts by the Project Applicant/developer and/or landowner, before ground-disturbing activities may resume on the Project site, the landowner shall arrange a						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
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designated site location within the footprint of the Project for the respectful reburial of the human remains and/or ceremonial objects. F. Each occurrence of human remains and associated funerary objects will be stored using opaque cloth bags. All human remains, funerary objects, sacred objects and objects of cultural patrimony will be removed to a secure container on site if possible. These items should be retained and reburied within 6 months of recovery. The site of reburial/repatriation shall be on the Project site but at a location agreed upon between the tribe and the landowner at a site to be protected in perpetuity. There shall be no publicity regarding any cultural materials recovered						

Table 4-1. Mitigation Monitoring and Reporting Program for 1450 Artesia Specific Plan Project

Project Design Feature/ Mitigation Measure	Monitoring/Reporting			Verification of Compliance		
	Monitoring/ Reporting Phase	Monitoring/ Reporting Method	Enforcing Agency and Responsible Agency	Initial	Date	Comments
G. The tribe will work closely with the Project's qualified archaeologist to ensure that the excavation is treated carefully, ethically and respectfully. If data recovery is approved by the tribe, documentation shall be prepared and shall include (at a minimum) detailed descriptive notes and sketches. All data recovery data recovery related forms of documentation shall be approved in advance by the tribe. If any data recovery is performed, once complete, a final report shall be submitted to the tribe and the NAHC. The tribe does NOT authorize any scientific study or the utilization of any invasive and/or destructive diagnostics on human remains.						

MEMORANDUM

To:	Amanda Acuna, City of Gardena
From:	Nicole Cobleigh, Dudek
Subject:	1450 Artesia Specific Plan Project – Response to LAUSD Comment Letter, dated February 4, 2025
Date:	February 17, 2025
cc:	Lisa Kranitz, Assistant City Attorney
Attachment(s):	LAUSD Comment Letter

On February 4, 2025, on the day of the Planning Commission hearing for the 1450 Artesia Specific Plan Project (project or proposed project), Los Angeles Unified School District (LAUSD) submitted a comment letter raising concerns about environmental issues. Although this letter came in far after the public review period, responses to comments raised by LAUSD in their letter, included as an attachment to this Memorandum, are provided below.

Air Quality

LAUSD comments that students at nearby Gardena Early Education Center and Gardena High School, as well as residents at the Sage Park Apartments, be considered sensitive receptors. Additionally, LAUSD suggested 14 measures that should be incorporated into the project.

Construction Health Risks

Threshold AQ-3, within Section 3.1, Air Quality, of the EIR identifies students at both Gardena Early Education Center and Gardena High School, as well as residents within a 1,080-foot radius from the project site as sensitive receptors. This is consistent with the request by LAUSD. The results of the analysis shown in Threshold AQ-3 demonstrate that during construction, even without mitigation measures, potential health risk impacts to sensitive receptors at the nearby schools would be less than significant. The only sensitive receptors for which thresholds would be exceeded are the live/work and multifamily residential units directly west of the project site. The schools are located to the southeast of the project site. However, with implementation of mitigation measure MM-AQ-1, which requires the use of Tier 4 Final construction equipment, all construction health impacts for all sensitive receptors in the vicinity of the project site would be less than significant.

Recommended Measures

LAUSD identified 14 measures that should be incorporated into the project to address potential impacts to students and surrounding sensitive receptors. All of the measures suggested by LAUSD are either existing mitigation measures, standard construction practices, requirements of South Coast Air Quality Management District rules, or requirements of the Atlantic Richfield Company (ARC)

as they implement the Remedial Action Plan (RAP) under the oversight of the California Department of Toxic Substances Control (DTSC).

Hazards

LAUSD requested that trucks hauling contaminated materials be routed away from the Gardena Early Education Center and Gardena High School. LAUSD also identified one recommendation that be incorporated into the project.

Truck Routes

Existing onsite contaminants associated with historic use of the project site will undergo remediation by ARC with oversight provided by DTSC. A RAP has been prepared and approved by DTSC that outlines the remediation effort. As discussed in the RAP, as well as within Chapter 2, Project Description, of the EIR, ARC will be installing an engineered cap, soil vapor probes, and associated infrastructure on part of the project site prior to the construction of the proposed project atop the engineered cap. No contaminated soil will be removed from or transported off the project site. A treatment system will be installed, and a cap will be placed over the existing soil on site. As such, no trucks hauling contaminated soil will be existing from the project site or traveling past the nearby schools.

Recommended Measures

The measure recommended by LAUSD has to do with truck ingress and truck egress for trucks carrying hazardous materials. For the reason discussed above, the incorporation of an additional measure is not required. However, the project is required to implement the following four measures, as explained in Section 3.6, Hazards and Hazardous Materials, of the EIR:

PDF-HAZ-1: Remedial Action of the Gardena Sumps Site. ARC will coordinate with the Applicant to implement the Final RAP. The Final RAP includes: (a) excavation of degraded and soil-sludge mixture; (b) consolidation of this excavated mixture above the Cooper North and Cooper South Sumps; (c) grading for excavated areas; (d) grading and installation, maintenance, and repair of an engineered cap over the Cooper North and Cooper South sumps, including stabilization, foundation, low hydraulic conductivity and erosion resistance layers; (e) installation of a retaining wall system along the north side of the Haack sump; (f) installation, operation, maintenance and repair of a soil vapor control and monitoring system that will include soil vapor probes and associated infrastructure; (g) installation, operation, maintenance and repair of a groundwater monitoring system; and (h) restoration of vegetation and site conditions. The Final RAP will be implemented before the Applicant commences construction of the proposed Project. The portion of the proposed Project site that overlaps the sump areas and the top of the engineered cap will be paved and utilized as a parking lot. The Applicant will undertake measures to protect the remedy during site operation. As part of the Final RAP, a land use covenant will be established for the site to prohibit sensitive uses thereon, such as residential uses, but will permit the Proposed Project's commercial

and industrial uses, as well as the City's temporary uses. The Applicant will comply with all institutional controls that DTSC may require as part of the ongoing use of the site, except for those assigned to ARC as part of its Final RAP.

PDF-HAZ-2: Vapor Intrusion Mitigation. The Applicant will install a soil vapor barrier and ventilation systems beneath the proposed structure to protect building occupants against indoor soil vapor intrusion. Vapor barrier systems will meet guidelines described in the Vapor Intrusion Mitigation Advisory published by DTSC and CalEPA in 2011 (VIMA). Vapor barriers will be designed to meet the standards outlined in the VIMA and will be in general conformance with General Construction, Membrane Installation, and Ventilation Trench for Passive Gas Control System Requirements of the Los Angeles County Methane Gas Mitigation Standards. The system will include a vapor barrier membrane and passive sub-slab venting system. The system will be designed by a California-licensed engineer. Monitoring probes will be installed below the barrier system, to evaluate the effectiveness of the system. An OM&M Plan will be prepared to define the ongoing sampling required to confirm the vapor intrusion mitigation system (VIMS) is operating as designed. The OM&M Plan will include a decision tree and contingency plans in the event unexpected conditions are identified.

MM-HAZ-1 Pre-Demolition Hazardous Materials Abatement. Demolition or renovation plans and contract specifications shall incorporate abatement procedures for the survey and removal of materials containing asbestos, lead, polychlorinated biphenyls, hazardous materials, hazardous wastes, and universal waste items. All abatement work shall be done in accordance with federal, state, and local regulations, including those of the U.S. Environmental Protection Agency (which regulates disposal), Occupational Safety and Health Administration, U.S. Department of Housing and Urban Development, California Occupational Safety and Health Administration (which regulates employee exposure), and the South Coast Air Quality Management District.

MM-HAZ-2 Soil Management Plan. Prior to commencement of any earthmoving activities, a Soil Management Plan (SMP) shall be developed that addresses potential impacts in soil and soil vapor from releases on or near the Project site. The SMP shall include training procedures for identification of contamination. The SMP shall describe procedures for assessment, characterization, management, and disposal of contaminated soils in accordance with all applicable state and local regulations, including SCAQMD Rules 1466, 403, and 1166. The SMP shall include health and safety measures, which may include but are not limited to periodic work breathing zone monitoring and monitoring for volatile organic compounds using a handheld organic vapor analyzer in the event impacted soils are encountered during excavation activities. The Applicant or its designee shall implement the SMP during construction activities for the proposed Project. As the site is currently under regulatory oversight by DTSC and shall likely have a land use covenant in place at the time of construction, the SMP shall be submitted to DTSC for review and approval prior to earthmoving activities.

Noise

LAUSD expressed concerns about noise increases at the nearby school sites and suggested three measures for incorporation into the project.

As discussed under Threshold NOI-1 within Section 3.9, Noise, of the EIR, potential noise impacts to the nearest school, Gardena Early Education Center, were evaluated. The school was Noise Receptor Location No. 1. Existing exterior ambient noise at the school was measured to be 59.8 dBA, which is below the 67 dBA threshold cited by LAUSD in their comment letter. As shown in Table 3.9-7 in Section 3.9, Noise, of the EIR, at the nearest sensitive receptor to the east of the project site (residential receptor), which is actually closer than Gardena Early Education Center, construction activities are not expected to result in dBA increases beyond the 10 dBA exterior noise threshold, and as such, noise increases to the east of the project site, including at the nearby schools, would not exceed noise thresholds.

The school will be notified in advance of the start of construction; however, it is infeasible to restrict demolition and construction activities to outside of school hours. Given that the impact analysis in Section 3.9 demonstrates that impacts would remain less than significant with implementation the 8-foot sound barrier wall, there is no need to place further limitations on noise-producing activities at the project site.

Transportation and Pedestrian Safety

LAUSD expressed concerns about traffic, access to school sites, and suggested six measures that should be incorporated to maintain access to the schools. Of the measures suggested by LAUSD, four are required to be followed by the law. These include ensuring school buses have unrestricted access to schools, not affecting school buses on-time performance and passenger safety and vehicles stopping when encountering school buses and ensuring parents dropping of their children have access to the passenger loading areas. One suggested measure is a standard construction practice; contracts must install and maintain appropriate traffic controls to ensure vehicle safety. And, regarding the potential for construction traffic to create delays, the level of service analysis included in the Local Transportation Assessment (Appendix J2 of the EIR) demonstrated that intersection and roadway conditions in the project and school vicinity would not deteriorate such that traffic delays for students would occur as a result of the proposed project.

LAUSD also suggested eight measures related to pedestrian safety and access. Of the measures suggested by LAUSD, six are standard construction measures and practices (maintaining ongoing communication, maintaining safe and convenient pedestrian routes to all nearby schools, installing appropriate traffic controls, no equipment staging or parking adjacent to school property, secured barriers and fencing around the project site, and security patrols to minimize trespassing and vandalism). Regarding the request that haul routes not pass by any school except when school is not in session, as discussed under Hazards above, no soil will be removed from or transported off the project site. All soils onsite will be capped so no hauling activities will occur, and thus no hauling past schools would occur. Regarding the need for additional crossing guards, no school crosswalks are

adjacent to the project site would be affected such that additional crossing guards would be warranted.

Conclusion

As discussed above, the comments received by the City immediately prior to the February 4, 2025 Planning Commission do not raise any new or different issues or concerns beyond what was already addressed in the EIR. Based on the responses to the comments provided by LAUSD, no new or more severe environmental impacts related to air quality, hazards and hazardous materials, noise, and transportation and pedestrian safety would occur.

Attachment to Memorandum

Los Angeles Unified School District

Office of Environmental Health and Safety

ALBERTO M. CARVALHO
Superintendent

CARLOS A. TORRES
Director, Environmental Health and Safety

JENNIFER FLORES
Deputy Director, Environmental Health and Safety

February 4, 2025

Amanda Acuna
Long Beach Community Development Department
411 W Ocean Blvd., Fl 3
Long Beach, CA 90802

PROJECT: 1450 Artesia Specific Plan Draft Environmental Impact Report SCH # 2023060263

Presented below are comments submitted on behalf of the Los Angeles Unified School District (LA Unified or District) regarding the subject project located at 1450 Artesia Boulevard in the City of Gardena. LA Unified is concerned about the potential negative impacts of the project on our students, staff, and residents in the following schools and apartments on District-owned property and intended for District employees:

- Gardena Early Education Center, 1350 W. 177th Street, Gardena, Calif., 457 feet south of the Project site
- Gardena High School, 1301 W. 182nd Street, Gardena, Calif., 703 feet south of the Project site with **1,408** Grades 9-12 students
- Sage Park Apartments, 1310 177th Street, Gardena, Calif., 588 feet south of the Project site with **90** units.

The proposed Project would involve the construction and operation of a mixed-use development with a total building area of 268,000 square feet and an approximate height of 75 feet, including a self-storage use (three levels totaling 186,000 gross square feet [GSF] with 1,480 storage units over ground floor warehouse/distribution use and a 1,000-square-foot leasing office), a warehouse/distribution use (one level totaling 72,000 GSF with 10 loading docks), and an office/retail use (a mezzanine totaling 10,000 GSF). The Project's proposed 72,000 GSF of warehouse/distribution use includes 10,000 GSF of potential future square footage to account for the potential future acquisition of a 0.23-acre parcel currently occupied by a single residential dwelling unit. Additionally, proposed associated facilities and improvements include perimeter fencing, on-site and perimeter landscaping, lighting, exterior sidewalks, and pavement for on-site parking spaces. Under the Specific Plan, the parking lot area would be used periodically for City-sponsored outdoor events outside of the Project's warehouse/distribution component operating hours. The Project includes construction of a 200 GSF, non-habitable structure on the eastern side of the Project site for storage of special event-related materials by the City. The Applicant is coordinating with the Atlantic Richfield Company (ARC), which is a responsible party working under the direction of the California Department of Toxic Substances Control (DTSC) to implement a Remedial Action Plan (RAP) by installing an engineered cap, soil vapor probes, and associated infrastructure on part of the Project site before the Applicant commences construction of the proposed Project.

The District requests that our students be recognized as sensitive receptors and that the Project specifically address potential impacts. Based on the extent/location of the proposed development, it is our opinion that significant environmental impacts on the surrounding community may occur. Since the project may have

an environmental impact on LA Unified schools and housing site, recommended conditions designed to help reduce or eliminate potential impacts are included in this response.

Work with LA Unified

Project applicants should coordinate any construction activities with LA Unified to ensure safety of students and their families and minimize disruptions to school activities and access to campus. Effective strategies for avoiding significant impacts on school operations include:

- Completing construction activities such as demolition and excavation when the schools are not in session (summer and winter breaks, holidays, weekends, and after hours).
- Including school and District representatives to review construction management plans, construction outreach plans, and participation in weekly construction meetings.
- Obtaining prior authorization from the District for any easements and project activities on surrounding District properties.
- Working with the District in identifying appropriate construction mitigation programs.

Air Quality

District students, school staff, and residents should be considered sensitive receptors to air pollution impacts. To ensure that effective measures are applied to further reduce construction air pollutant impacts, we ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- Implement all applicable provisions of Rule 403 for fugitive dust control during construction of the Project.
- Utilize low emission "clean diesel" equipment with new or modified engines manufactured to meet Tier 4 specifications or retrofitted to comply with CARB's verified diesel emission control strategy (VDECS).
- Construction vehicles shall not idle in excess of five minutes.
- Ensure that construction equipment is properly tuned and maintained in accordance with manufacturer's specifications.
- Water/mist soil as it is being excavated and loaded onto the transportation trucks.
- Water/mist and/or apply surfactants to soil placed in transportation trucks prior to exiting the site.
- Minimize soil drop height into transportation trucks or stockpiles during dumping.
- Cover the bottom of the excavated area with polyethylene sheeting when work is not being performed.
- Place stockpiled soil on polyethylene sheeting and cover with similar material.
- Place stockpiled soil in areas shielded from prevailing winds.
- Sweep streets at the end of the day if visible soil material is carried onto adjacent public paved roads (recommend water sweepers).
- Install wheel washers (or steel shaker plates) where vehicles enter and exit unpaved roads onto paved roads or wash off trucks and any equipment leaving the site each trip.
- Suspend all excavating and grading operations when wind speeds (as instantaneous gusts) exceed 25 miles per hour (mph).
- Excavation and transportation of soil known to contain hazardous substances should be limited to periods when school is not in session.

Hazards and Hazardous Materials

The Project has the potential to transport hazards and hazardous materials during construction and operation. We ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- During construction, ingress/egress routes to the construction site should be designed to ensure that trucks and construction vehicles carrying hazards and hazardous materials are routed away from District school sites. Additional recommendations are provided in this letter under the Transportation/Traffic section.

Noise

Noise created by construction activities may affect the schools in proximity to the development. These construction activities include grading, earth moving, hauling, and use of heavy equipment.

LA Unified established maximum allowable noise levels to protect students and staff from noise impacts generated in terms of Leq. These standards were established based on regulations set forth by the California Department of Transportation. LA Unified's exterior noise standard is 67 dBA Leq and the interior noise standard is 45 dBA Leq. A noise level increase of 3 dBA or more over ambient noise levels is considered significant for existing schools and would require mitigation to achieve levels within 2 dBA of pre-project ambient level. To ensure that effective measures are employed to reduce construction related noise impacts on the campus, we ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- Provisions shall be made to allow the school and or designated representative(s) to notify the project applicant when noise impacts to the schools exceed the District's noise standards.
- All pile driving equipment shall be equipped with noise control devices and/or shall implement noise buffers with minimum quieting factor of 10dBA, to the extent feasible. If possible, drilled piles are preferred to driven piles.
- Demolition activities shall be scheduled for when school is not in session.

Traffic/Transportation

LA Unified's Transportation Branch **must be contacted** at (213) 580-2950 regarding the potential impact upon existing school bus routes. The Project Manager or designee will have to notify the LA Unified Transportation Branch of the expected start and ending dates for various portions of the project that may affect traffic within nearby school areas. To ensure that effective conditions are employed to reduce construction and operation related transportation impacts on District sites, including the net increase of 1,000 or more daily vehicle trips, we ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- School buses must have unrestricted access to schools.
- During the construction phase, truck traffic and construction vehicles may not cause traffic delays for our transported students.
- During and after construction, changed traffic patterns, lane adjustment, traffic light patterns, and altered bus stops may not affect school buses' on-time performance and passenger safety.
- Construction trucks and other vehicles are required to stop when encountering school buses using red-flashing-lights must-stop-indicators per the California Vehicle Code.
- Contractors must install and maintain appropriate traffic controls (signs and signals) to ensure vehicular safety.
- Parents dropping off their children must have access to the passenger loading areas.

Pedestrian Safety

Construction activities that include street closures, the presence of heavy equipment and increased truck trips to haul materials on and off the project site can lead to safety hazards for people walking in the vicinity of the construction site. To ensure that effective conditions are employed to reduce construction and operation related pedestrian safety impacts on District sites, we ask that the City incorporate into the project's conditions of approval or mitigation measures the following language:

- Contractors must maintain ongoing communication with LAUSD school administrators, providing sufficient notice to forewarn children and parents when existing pedestrian routes to school may be impacted.
- Contractors must maintain safe and convenient pedestrian routes to all nearby schools.
- Contractors must install and maintain appropriate traffic controls (signs and signals) to ensure pedestrian and vehicular safety.
- Haul routes are not to pass by ***any*** school, except when school is ***not*** in session.
- No staging or parking of construction-related vehicles, including worker-transport vehicles, will occur on or adjacent to a school property.
- Funding for crossing guards at the contractor's expense is required when safety of children may be compromised by construction-related activities at impacted school crossings.
- Barriers and/or fencing must be installed to secure construction equipment and to minimize trespassing, vandalism, short-cut attractions, and attractive nuisances.
- Contractors are required to provide security patrols (at their expense) to minimize trespassing, vandalism, and short-cut attractions.

The District's charge is to protect the health and safety of students and staff, and the integrity of the learning environment. The comments presented above identify potential environmental impacts related to the proposed project that must be addressed to ensure the welfare of the students attending schools, their teachers and staff, as well as to inform parents and guardians of these students.

Thank you for your attention to this matter. If you need additional information, please contact me at (213) 241-4210 or at cp-bryan.fernandez@lausd.net.

Sincerely,

Bryan Ramos Fernandez, AICP
CEQA Project Manager
Los Angeles Unified School District (LAUSD)
Office of Environmental Health and Safety (OEHS)
333 S Beaudry Ave., 21st Floor, Los Angeles, CA 90017

ORDINANCE NO. 1879

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA APPROVING THE 1450 SPECIFIC PLAN AND A DEVELOPMENT AGREEMENT WITH 1450 ARTESIA ACQUISITION COMPANY LLC

(APNS 6106-036-010, -012, -034, -035, -036, -037)

WHEREAS, on May 11, 2021 an application was received from Brian Sorensen on behalf of Insite Property Group LLC to develop a building consisting of warehouse and self-storage uses on property located on a 6.33 acre site near the southwest corner of Artesia Boulevard and Normandie Avenue and consisting of APNs 6106-036-010, -012, -034, -035, -036, and -037 (the "Project Site"); and

WHEREAS, the eastern portion of the Project Site is a contaminated site known as the Gardena Sumps; and

WHEREAS, on June 17, 2022 the Department of Toxic Substances Control approved a Remedial Action Plan ("RAP") for the former owner of the Gardena Sumps to remediate the property; and

WHEREAS, August 27, 2021, the City entered into a consulting agreement with Dudek to prepare an Environmental Impact Report (EIR) for the Project; and

WHEREAS, on February 28, 2023, the City Council adopted ordinance No. 1848 which rezoned the Project Site to 1450 Artesia Specific Plan and added section 18.08.015 to the Gardena Municipal Code providing that no development could occur in the 1450 Artesia Specific Plan zone until a specific plan was adopted; and

WHEREAS, the development, as analyzed, consists of 268,000 square foot building consisting of 186,000 gross square feet of self-storage units, 72,000 gross square feet of industrial warehouse/distribution use, and a 10,000 square foot office/retail area (the "Project"); and

WHEREAS, on February 4, 2025, the Planning Commission of the City of Gardena, California held a duly noticed hearing on this Project at which time it considered all evidence presented, both written and oral; and

WHEREAS, after the close of the public hearing the Planning Commission recommended that the City Council certify the EIR for the Project, make the findings required by CEQA, and adopt a mitigation monitoring and reporting program as well as approve the entitlements required for the project; and

WHEREAS, on February 25, 2025 the City Council held a duly noticed public hearing on the Project and the EIR for the Project, at which time it considered all evidence presented, both oral and written; and

WHEREAS, prior to adopting this Ordinance the City Council adopted Resolution No. 6693 certifying the EIR, making the findings required by CEQA, and adopting a mitigation monitoring and reporting program;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, DOES HEREBY ORDAIN AS FOLLOWS:

SECTION 1. The City Council hereby adopts the 1450 Specific Plan, attached hereto as Exhibit A. This approval is based on the following findings:

A. Adoption of the Specific Plan is consistent with the Land Use Plan of the General Plan which designates this property for Specific Plan and consistent with Section 18.08.015 of the Gardena Municipal Code which requires adoption of the 1450 Artesia Specific Plan for development of the site.

B. The Specific Plan complies with state and local law and contains all necessary elements.

C. The Specific Plan creates a new zone which will act as the zoning for the property and establishes the permitted uses and development standards that apply to the property. Adoption of the Specific Plan is required to allow development of the property.

D. Development of the Specific Plan will allow for the following benefits:

1. Redevelopment of a contaminated property with a use that has been approved by the Department of Toxic Substance Control which has approved a Remedial Action Plan for the property.

2. Redevelopment of contaminated property that cannot be used for residential or other sensitive uses. Despite being zoned for commercial use for decades, no such development was ever proposed.

3. Redevelopment will bring one-time monetary benefits to the City in the form of permit and inspection fees and increased business license fees for contractors working on the project.

4. Redevelopment will increase the value of the property and the amount of property tax which the City receives.

SECTION 2. The City Council hereby approves the Development Agreement attached hereto as Exhibit B based on the following findings:

A. The Development Agreement will implement the Specific Plan and will provide the City with certain benefits that would otherwise be unattainable through the other land use approvals in exchange for providing valuable development rights.

B. The Development Agreement provides for the following benefits which could not be obtained through the normal development procedures, in addition to the benefits set forth above, including:

1. A one million dollar one-time monetary contribution to the City to be used for any public purpose benefiting the City's residents;

2. Space for the City to hold community events up to 36 times a year and storage space for the City's equipment for such events; and

3. An agreement to follow local hiring/local buying program policies.

SECTION 3. Site Plan Review #5-21, included as Appendix B to the Specific Plan, is approved as part of the Specific Plan. The City Council makes the following findings with regard to the Site Plan:

A. The physical location, size, massing, setbacks, pedestrian orientation, and placement of proposed structures on the site and the location of proposed uses within the project are consistent with the applicable standards:

Analysis: The project is consistent with the applicable standards as the standards are set forth in the 1450 Artesia Specific Plan and the Project implements this Plan.

B. The development is consistent with the intent and general purpose of the general plan and provisions of the Zoning Code:

Analysis: The Land Use Designation for the Property is Specific Plan and the zoning is 1450 Artesia Specific Plan. As the development implements the Specific Plan, it is consistent with both the General Plan land use designation and the zoning. Additionally, the development implements numerous other goals and policies of the Specific Plan as outlined therein.

C. The health and safety services (police and fire) and public infrastructure are sufficient to accommodate the new development:

Analysis: The development has been reviewed by the Gardena Police Department and the Los Angeles County Fire Department. Neither Department has raised any issues regarding the ability to provide services. Additionally, the project has received will serve letters from the various utilities.

D. The project is compatible with the surrounding sites and neighborhoods:

Analysis: The Specific Plan allows for the development of up to 268,000 square feet (SF) and an approximate height of 75 feet. The Project is designed to be compatible with adjacent and anticipated land uses and to redevelop parcels that are underutilized due to impacts from former releases of hazardous substances and waste. The Specific Plan regulates project buildout in a manner that is consistent with applicable State law.

E. The project has been determined to be exempt from CEQA or the appropriate environmental document has been completed and required findings have bene made:

Analysis: An EIR has been prepared for the Project in accordance with CEQA and the CEQA Guidelines and the EIR was certified prior to the adoption of this Ordinance.

SECTION 4. Severability. If any section, subsection, subdivision, paragraph, sentence, clause or phrase of this ordinance, or any part thereof is for any reason held to be unconstitutional, such decision shall not affect the validity of the remaining portion of this ordinance or any part thereof. The City Council hereby declares that it would have passed each section, subsection, subdivision, paragraph, sentence, clause or phrase thereof, irrespective of the fact that any one or more section, subsection, subdivision, paragraph, sentence, clause or phrase be declared unconstitutional.

SECTION 5. This Ordinance shall take effect on the thirty-first day after passage.

SECTION 6. Certification. The City Clerk shall certify the passage of this ordinance and shall cause the same to be entered in the book of original ordinances of said City; shall make a minute passage and adoption thereof in the records of the meeting at which time the same is passed and adopted; and shall, within fifteen (15) days after the passage and adoption thereof, cause the same to be published as required by law, in a publication of general circulation.

PASSED, APPROVED AND ADOPTED this ____ day of _____, 2025.

_____
TASHA CERDA, Mayor

ATTEST:

_____
MINA SEMENZA, City Clerk

APPROVED AS TO FORM:

_____
CARMEN VASQUEZ, City Attorney

Exhibit A – 1450 Artesia Specific Plan

Exhibit B – Project Plans

Exhibit C – Conditions of Approval

Exhibit D – Development Agreement

CITY OF GARDENA

1450 ARTESIA SPECIFIC PLAN

January 2025

1450 ARTESIA SPECIFIC PLAN

January 2025

City of Gardena
1700 West 162nd Street
Gardena, CA 90247

Applicant:
1450 Artesia Acquisition Company, LLC
2015 Manhattan Beach Blvd.
Suite 104
Redondo Beach, CA 90278

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1.0 SUMMARY STATEMENT

The 1450 Artesia Specific Plan (1450 ASP or Specific Plan or Plan) Project (Project) facilitates a redevelopment of underutilized uses into a revitalized building for warehouse, office/retail and self-storage mixed-use building and special events property.

The Specific Plan allows for the development of up to 268,000 square feet (SF) and an approximate height of 75 feet. The Project is designed to be compatible with adjacent and anticipated land uses and to redevelop parcels that are underutilized due to impacts from former releases of hazardous substances and waste. The Specific Plan regulates project buildout in a manner that is consistent with applicable State law.

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2.0 INTRODUCTION

2.1 AUTHORITY

The 1450 ASP provides for the orderly and efficient development and revitalization of the Plan area consistent with the City of Gardena General Plan policies and objectives. The 1450 ASP has been prepared pursuant to the provisions of California Government Code, Title 7, Division 1, Chapter 3, Article 8, Sections 65450 through 65457. The code grants local government agencies the authority to prepare specific plans for the systematic implementation of their General Plan for all or part of the area covered by the General Plan.

Government Code Sections 65450 through 65454 establish the authority to adopt a Specific Plan, identify the required contents of a Specific Plan, and mandate consistency with the General Plan.

Per Government Code Section 65451, a Specific Plan must include text and a diagram or diagrams which specify all of the following in detail:

- The distribution, location, and extent of the uses of land, including open space within the area covered by the plan.
- The proposed distribution, location, extent, and intensity of major components of public and private transportation, sewage, water, drainage, solid waste disposal, energy and other essential facilities proposed to be located within the land area covered by the plan and needed to support the land uses described in the plan.
- Standards and criteria by which development will proceed, and standards for the conservation, development, and utilization of natural resources, where applicable.
- A program of implementation measures including regulations, programs, public works projects and financing measures necessary to carry out the above items.
- A discussion of the relationship of the Specific Plan to the General Plan.

As a regulatory document, the Specific Plan implements the General Plan as the new zoning for the Specific Plan area. All future development plans and entitlements within the Specific Plan boundaries must be consistent with the applicable standards set forth in this document as described in Chapters 5 (Development Regulations and Requirements), 6 (Design Guidelines), and 8 (Implementation); the Gardena Municipal Code (GMC), where not modified by the Specific Plan; and the General Plan.

2.2 PURPOSE AND INTENT

The 1450 ASP provides newly constructed development of industrial warehouse, office, and self-storage options specifically to create a modern facility along Artesia Boulevard. The aim is to repurpose underutilized parcels to provide high quality industrial and commercial uses to the City of Gardena (City). See Chapter 4.1 for detailed project goals and objectives.

2.3 SITE LOCATION

The Project site is located at the southwest corner of Artesia Boulevard and Normandie Avenue in the City. The Project's regional vicinity is depicted in **Figure 1: Local Vicinity Map** and the Project's specific site location is depicted in **Figure 2: Project Location.**

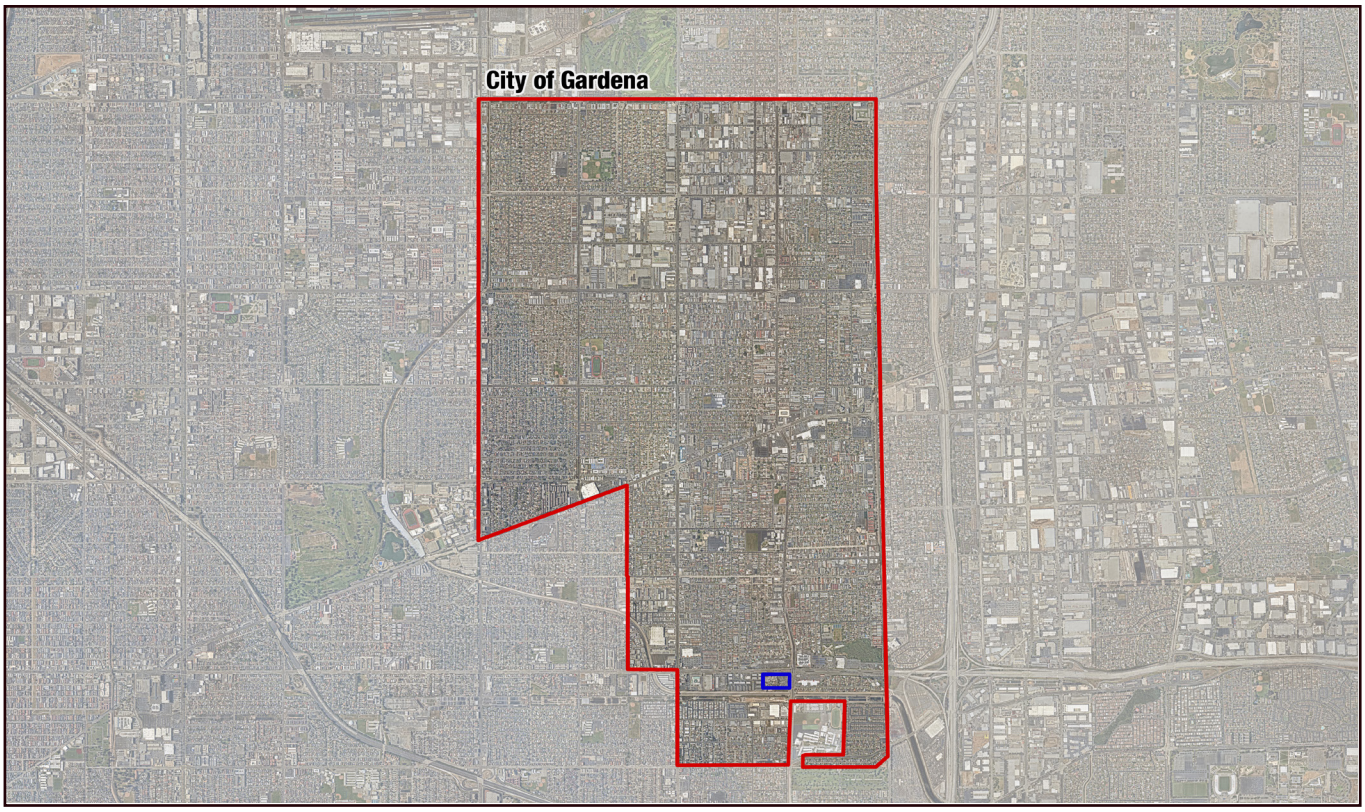
REGIONAL SETTING

Regionally positioned within the County of Los Angeles, the City has developed as the 'City of Opportunity' since its incorporation in 1930 including development into 5.9-square-miles with a population of just over 61,000 based on 2020 Census data. The City is a transit-oriented city bound by the Century Freeway (I-105) to the north, San Diego Freeway(I-405) to the south and west, and the Harbor Freeway (I-110) to the east. The Artesia Freeway (SR-91) begins approximately 0.9 miles east of the Project site and runs east-west throughout the City. Artesia Boulevard, an east-west street forming the northern boundary of the Plan area, delivers direct access to the Specific Plan area. Local access to the Project site is also provided from Normandie Avenue, traveling north-south just east of the Project site and Western Avenue, traveling north-south within the vicinity to the west of the Project site. Additionally, the City is within close proximity to downtown Los Angeles (12 miles), and Los Angeles Ports (7 miles). The Project's regional setting is illustrated in **Figure 1: Local Vicinity Map.**

LOCAL SETTING

The Project site is comprised of six parcels (APNs 6106-036-010, -012, -034, 035, -036, and -037) totaling approximately 6.33 acres located in the southern portion of the City. The City is bordered by the unincorporated West Athens community and the City of Hawthorne to the north, the cities of Los Angeles and Torrance to the south, the City of Los Angeles to the east, and the cities of Torrance and Hawthorne and Los Angeles County to the west.

The Specific Plan area is generally surrounded by commercial and residential land uses. Adjacent to the Specific Plan area are Artesia Boulevard and commercial uses to the north, residential and LA County Flood Control uses (Dominguez Channel) to the south, LA County Flood Control and railroad uses to the east, and live/work and multi-family residential uses directly to the west as depicted in **Figure 2: Project Location.**



N.T.S.

Figure 1: Local Vicinity Map

N.T.S.

Figure 2: Project Location

2.4 PROJECT HISTORY AND BACKGROUND

The Plan area was initially developed as early as the 1920s at which time was leased by Moneta Brick Company. The property was utilized for industrial purposes, with multiple sumps on the property for clay mining operations. The sumps were filled with sludge consisting of disposal material through the 1950s, including refinery wastes, tank bottom sludges, and rinse water acids and are known as the Copper and Haack properties or Gardena Sumps. The Gardena Sumps include four areas defined as the Cooper North Sump, Cooper South Sump, Haack Sump and Haack Rework Area. **Figure 3: Gardena Sumps Locations,** details the approximate location of the collective Gardena Sumps.

Development continued over portions of the sump areas in the following years, including excavations, which changed the grade and elevation of the site, as well as construction of parking lots and buildings. Starting in the 1980's, the Department of Health Services (DHS) and Environmental Protection agency (EPA)'s Technical Assistance Team (TAT) confirmed the presence of hazardous materials and issued a Remedial Action Order on March 3, 1988.

By 1993, the eastern property was capped with a liner under the direction of the Department of Toxic Substance Control (DTSC). Presently, multiple monitoring wells and cap are located on this portion of the property which limits redevelopment options. Remediation and monitoring efforts have been under a Final Remedial Action Plan (RAP) for the site, dated June 30, 2022, which DTSC approved. The Final RAP details excavation of impacted soils on a portion of the site, known as the Haack Rework Area, relocation of those contaminated soils to another portion of the site, known as the Cooper Sumps area, and installation of soil vapor probes and an engineered cap with a specialized geosynthetic cover and clean soil cover over the Haack Sump and Cooper Sumps. The remediation will be completed by Atlantic Richfield Company which is the responsible party that will implement the RAP, prior to the start of Project construction. The Final RAP includes provisions for a legal land use covenant to limit future uses of the site to commercial and industrial uses, which are consistent with the Project's uses, as well as long-term operation, monitoring and maintenance of the cap and other remedy elements. The Project structure would only overlap with the remediated Haack Rework area. The portion of the Project site that overlaps the Haack and Cooper sumps areas would be paved and utilized exclusively as a parking lot which would be located atop the cap implemented as part of the DTSC-approved Final RAP.

N.T.S.

Figure 3: Gardena Sumps Location

2.5 PROJECT DESCRIPTION

In 2004 the City completed a citywide retail analysis which examined retail opportunities within and surrounding the City and summarized the opportunity for retail development at distinct locations within the City. The report found Artesia Boulevard offered a prime location for commercial development to attract quality commercial uses.

The City subsequently changed the General Plan land use designation for the majority of these properties from Industrial to General Commercial during the 2006 General Plan update. Additionally, in 2006 the City adopted the Artesia Corridor Specific Plan (referred to as the Artesia Corridor), to promote revitalization efforts. The Artesia Corridor Specific Plan provided for a mix of residential and commercial uses. Mixed use residential and commercial has been developed within parts of the Artesia Corridor.

On February 15, 2023, the City Council adopted the 6th Cycle Housing Element for 2021 – 2029. At the same time, it also adopted Resolution No. 6620 updating the Land Use Plan, including changes to the Land Use Map, Urgency Ordinance No. 1847 amending the Zoning Code and revising the Zoning Map. The Resolution and Ordinance (Resolution No. 6620 & Ordinance No. 1848) also rescinded the Artesia Corridor Specific Plan, changed the land use designation for five of the six areas in the Artesia Corridor Specific Plan area, and rezoned all six Artesia Corridor Specific Plan areas. The property that is the subject of this Specific Plan retained the land use designation of Specific Plan, and the zoning was changed to 1450 Artesia Specific Plan with a Code amendment that it would be developed for industrial and commercial uses once a specific plan was adopted.

For historical purposes, the 1450 ASP area includes former Artesia Corridor Specific Plan Areas 4B and 5. See **Figure 4: Previously Existing and 1450 Specific Plan Areas.**

The Project includes redevelopment of mixed-use property comprised of a 268,000 gross-square-foot (GSF) building with associated surface parking, and landscaping and circulation improvements. The proposed development would contain a self-storage use (three levels over the bottom floor industrial totaling 186,000 GSF with up to 1,480 storage units), an industrial warehousing use (one level totaling 72,000 GSF plus up to ten loading docks), and an office/retail use (a mezzanine totaling 10,000 GSF).

Additionally, the City will host occasional, medium-size special events on an approximately 36,000-SF (0.8 acre) portion of the parking area. See Section 4.2 for a detailed list of the types of permitted events. The Project's building design will incorporate engineering controls set forth within the approved Final RAP and Remedial Design and Implementation Plan (RDIP) detailed in Section 3.3. As implemented, the Final RAP will protect human health and the environment and make the Project site safe for use and occupancy for its intended commercial and industrial use.

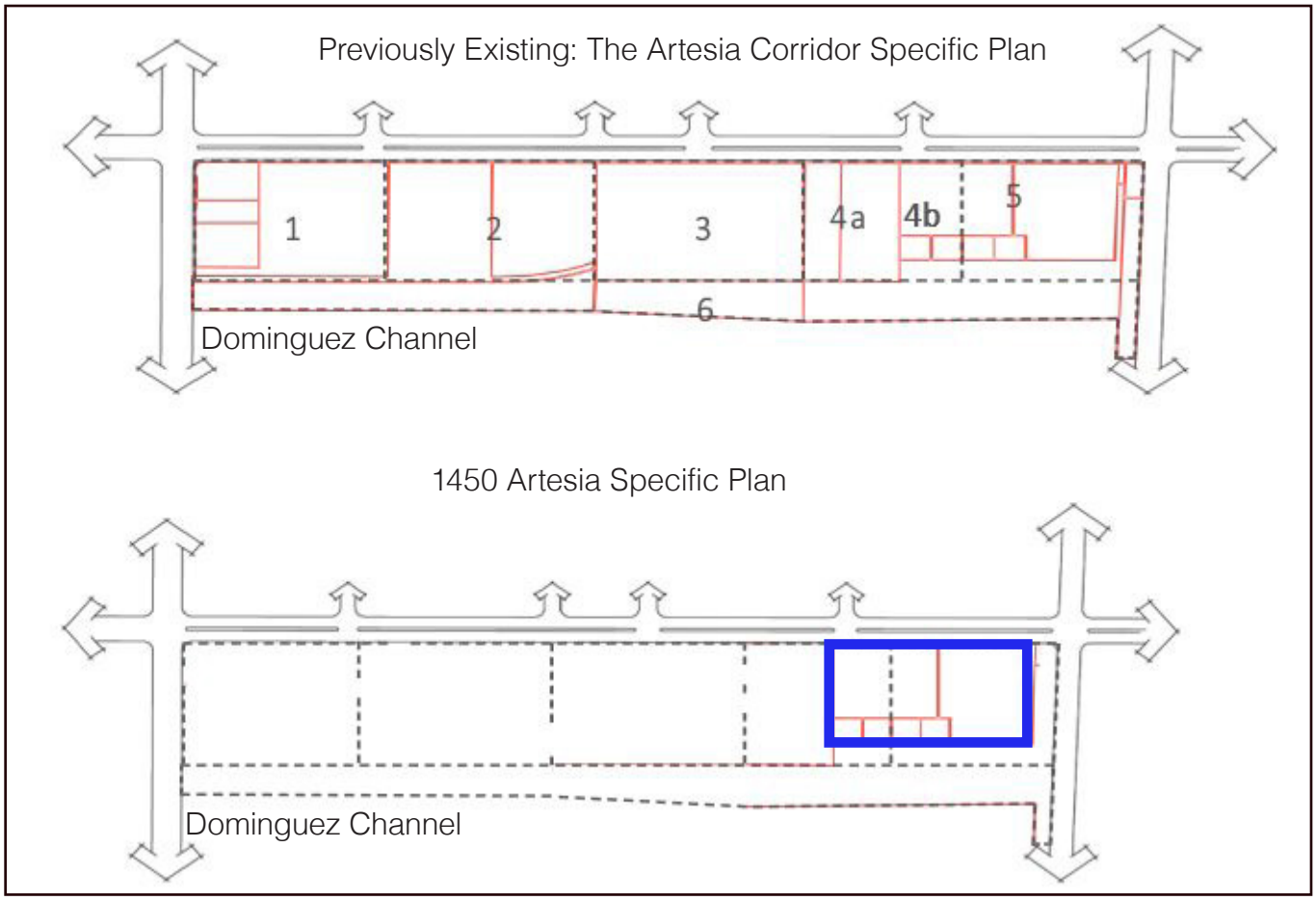


Figure 4: Previously Existing and 1450 Specific Plan Areas

2.6 ENVIRONMENTAL ASSESSMENT

A project Environmental Impact Report (EIR) has been prepared and certified in accordance with the provisions of the California Environmental Quality Act (CEQA) as defined by §15161 of the CEQA Guidelines to address the potential environmental effects of the 1450 ASP and greater area surrounding the Project site. As required by the Mitigation Monitoring and Reporting Program (MMRP) that was adopted, the Project will implement mitigation measures to reduce potential impacts resulting from Project implementation to a less-than-significant level [(SCH#2023060263)]. All mitigation measures identified in the EIR are incorporated in this Specific Plan by reference within **Appendix A: Mitigation Monitoring and Reporting Program.**

2.7 RELATED APPLICATIONS AND DOCUMENTS

In addition to approval of this Specific Plan (SP #1-23), the following entitlements have also been approved by the City to develop the Project:

DEVELOPMENT AGREEMENT (DA #1-21)

A development agreement between the City and developer that guarantees the right to build the development as set forth in this Specific Plan for a period of five years, with one (1) five-year (5 year) administrative extension, in exchange for receiving a monetary contribution, space to hold community events and other public benefits.

SITE PLAN REVIEW (SPR #5-21)

Site Plan Review (SPR #5-21) for review of the physical design of the development.

The City will also administratively approve the following:

LOT MERGER (LM #1-21)

A lot merger combining the 1450 ASP site's six legal lots into a single development site.

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3.0 CONTEXT AND EXISITING CONDITIONS

3.1 PROJECT SITE AND LAND USES

The 1450 ASP area consists of six parcels (APNs 6106-036-010, -012, -034, -035, -036, and -037) totaling approximately 6.33 acres in size, situated between Artesia Boulevard and the Dominguez Flood Control Channel. Existing land uses in the 1450 ASP area included a light manufacturing parcel with current U-Haul and metal works facility, one vacant parcel with a Department of Toxic Substance Control (DTSC) cap for contaminated sumps, and four residential parcels behind the industrial properties adjacent to the Dominguez Channel (1450, 1452, 1462 and 1472 West Artesia Boulevard) at the time the Plan was initiated. Three blighted homes were demolished prior to implementation of the Project with two additional structures to be removed as part of the Remedial Action Plan. Remaining structures will be removed as part of Project Implementation.

A map of the existing parcels and uses is provided in **Figure 5: Existing Uses**.

N.T.S.

Figure 5: Existing Uses

3.2 TOPOGRAPHY

The Project site's topography is generally level, with areas that are gently to moderately sloping. Artificial fill soils cover most of the site and are thickest near the center of the site where the Dominguez Creek was infilled, and at the eastern end of the site where a sump was excavated and filled.

An existing unpaved maintenance roadway owned by the Los Angeles County Flood Control District lies along the Dominguez Channel to the south of the site.

The Project site's topographical survey is provided in **Figure 6: Topographic Survey.**

3.3 GEOLOGY AND SOILS

A geotechnical study of the 1450 ASP area was prepared by Carl Kim Geotechnical Inc. on February 4, 2022. Existing geology and soils conditions are taken from the geotechnical study.

Based on review of available geologic maps, the site is not located within an Alquist-Priolo Earthquake Fault Zone. The City is located within a seismically active region that includes numerous

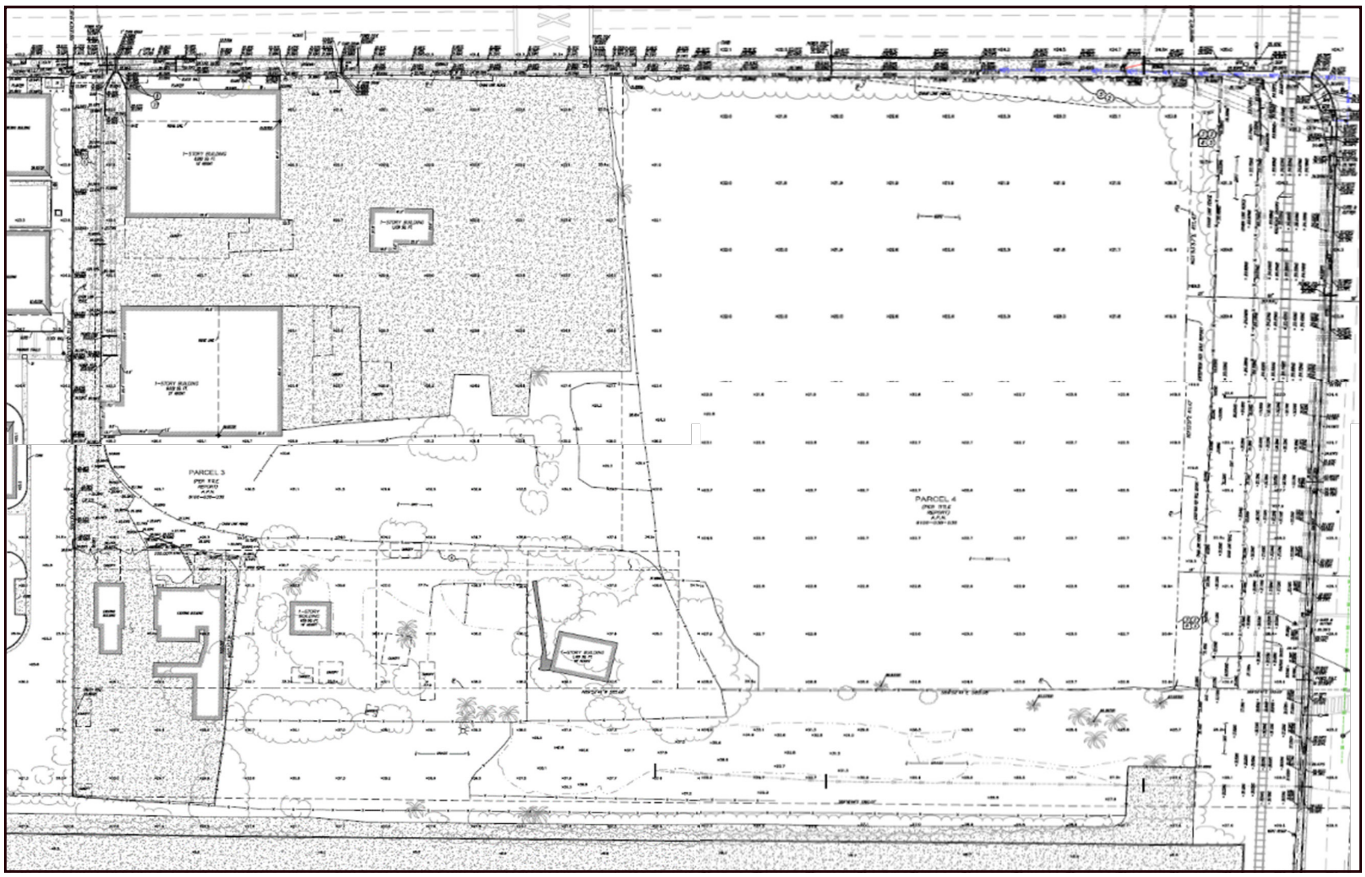

Figure 6: Topographic Survey

N.T.S.

active, potentially active, and inactive fault traces and, consequently, is subject to the risks and hazards associated with potentially destructive earthquakes. The area located along Artesia Boulevard and the Dominguez Flood Control Channel in the southern portion of the City is located within a liquefaction zone.

The primary geologic hazard at the site is moderate to strong ground motion (acceleration) caused by an earthquake on any of the local or regional faults. The potential for other earthquake-induced hazards was also evaluated including surface rupture, liquefaction, dynamic settlement, inundation and land sliding.

Based on available groundwater monitoring reports dated 2020, groundwater ranges from 12 and 14 feet below ground surface (bgs) from onsite monitoring well MW-05. It was recommended by the geotechnical consultant that a groundwater level of 10 feet below ground surface conservatively be assumed for design and construction.

Much of the site is underlain by sump materials. Due to the contaminants of concern remaining in the subsurface soil, engineering controls including an engineered cap over impacted soils, soil vapor probes and related features, and soil vapor barrier design with ventilation systems will be required for future construction as part of the building foundation designed to prevent indoor soil vapor intrusion.

3.4 HYDROLOGY

A hydrology study of the 1450 ASP area was prepared by Kimley-Horn & Associates on August 3, 2022, which concluded approximately 14,000 cu-ft must be detained onsite to attenuate the runoff and mitigate impacts to the surrounding area.

The grading pattern for the proposed development will largely be consistent with that of the existing condition and surface flow towards Artesia Boulevard and stormwater cisterns to be installed along the western boundary of the property. The site is currently approximately 74 percent impervious. The Project will increase the pervious area of the site by approximately 14 percent.

3.5 GENERAL PLAN AND ZONING DESIGNATIONS

As discussed in the Project History above, the Project site is designated Specific Plan[2] and is consistently zoned as 1450 Artesia Specific Plan.

3.6 CIRCULATION

Three major freeways provide regional access to the Project site: I-405 to the south and west, and I-110 and SR-91 to the east. These freeways connect to the Project via Artesia Boulevard which runs along the northern boundary of the 1450 ASP area. Artesia Boulevard provides local access to the site, and is classified as a major divided arterial, with a total of six lanes. Local access to the Plan area is also provided from Normandie Avenue, traveling north-south just east of the Specific Plan area. The 405 freeway is also accessible from Western Avenue to the south of the Project site. A sidewalk along the south side of Artesia Boulevard provides pedestrian access to the site.

See Section 4.3 for local vehicular access to the Project site.

3.7 UTILITIES AND SERVICES

Ensuring the 1450 ASP area is served by adequate infrastructure is critical to successful 1450 ASP implementation and future development of the area. See **Table 4-1, Public Services & Utilities** within Chapter 4.5 for a list of public services and utilities that will serve the Plan area.

Utilities

Stormwater Drainage

- Stormwater from the 1450 ASP area will be collected in a cistern along the western boundary of the property.
- Further discussion on stormwater and drainage best management practices are included in Chapter 4.5.

Sewer

- The Los Angeles County Sanitation District (LACSD) is responsible for ownership and maintenance for the existing sewer a 21-inch in Artesia Boulevard, and the existing 8-inch sewer off Normandie Avenue, which that provide wastewater collection, conveyance, and management surrounding the property.
- One existing sewer lateral from the City of Gardena's public sewer system connects to the 21-inch main within Artesia Boulevard to the Project.

Water

- Water and fire services are provided to the property by a 21-inch cast iron line owned and maintained by the Golden State Water Company (GSWC).
- An 8-inch fire water line and 3-inch domestic water line are proposed water laterals serving the site.

Electrical Power

- The site is currently served by overhead power lines on the south side of Artesia Boulevard owned and maintained by Southern California Edison (SCE).

Natural Gas

- The site is currently served by electricity not by natural gas.

[2]City of Gardena. 2022. Land Use Plan. https://cityofgardena.org/wp-content/uploads/2021/07/2021-Updated-Land-Use-Plan-04-21.pdf (accessed October 2022).

Services Characteristics

Solid Waste

- Waste Resources of Gardena provides solid waste pickup services for the City.

Fire Protection Services

- The Los Angeles County Fire Department (LACFD) provides fire protection services and emergency medical service to the City.
- The closest facility to the Project site is Fire Station 158 at 1650 W. 162nd Street in Gardena, California, located approximately 1.4 miles to the north of the project site and a 3-minute driving distance.
- The provision of water for fire suppression is available from existing water lines via adjacent hydrants.

Police Protection Services

- The Gardena Police Department (Gardena PD) provides police protection services to the City.
- The Specific Plan area is approximately 1.4 miles from the police station located at 1718 W 162nd Street.
- The Gardena PD divides the City into three districts, each with its own District Policing Team. The Project site is located within District 3.

Library Services

- The Los Angeles County Library provides library services to the City.
- There is one library within City limits which is the Gardena Mayme Dear Library at 1731 W Gardena Boulevard located 1.3 miles to the north and a two-minute driving distance. There are other public libraries located just outside of the City limits.

Schools

- The Los Angeles Unified School District provides educational services and facilities for students from kindergarten through twelfth grade.
- The Project site is within the service district of LAUSD and is served by three schools: 186th Street Elementary School, Peary Middle School, and Gardena Senior High School.

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4.0 SPECIFIC PLAN CONCEPTS

4.1 PROJECT GOALS AND OBJECTIVES

The 1450 ASP's overall purpose is to improve the major development corridor of Artesia Boulevard transforming an underutilized area with newly constructed self-storage, industrial warehousing, and office solutions to the City. The 1450 ASP permits commercial and industrial land uses and establishes building and site design, transportation, and infrastructure, to achieve this vision. The Project is guided by the following major objectives:

- Redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor within the City;
- Develop appropriate uses in an area with a legacy of contamination in a manner that protects human health and the environment and allows for continued monitoring of remediated areas;
- Produce short- and long-term jobs during the Project's construction and operations phases;
- Generate property and sales tax revenues for the City to enhance its services to the community and infrastructural improvements;
- Provide the City a substantial monetary public benefit to the City's General Fund; and
- Provide the City with an outdoor venue to hold community events.

4.2 SITE PLAN AND LAND USE PLAN

The site plan provided in **Figure 7: Site Plan and Land Use Plan**, sets forth the proposed plan for development of the Specific Plan area including the following uses: fgbdgn

- a self-storage use (three levels of self-storage over the bottom floor industrial totaling up to 186,000 GSF with 1,480 storage units); the self-storage leasing office will be approximately 1,000 GSF on the bottom floor,
- an industrial/warehouse use (one level totaling 72,000 GSF plus ten loading docks),
- an office/retail use (a mezzanine totaling 10,000 GSF), and
- a 200 square foot storage building will be provided for the City's use for the storage of equipment for the special events.

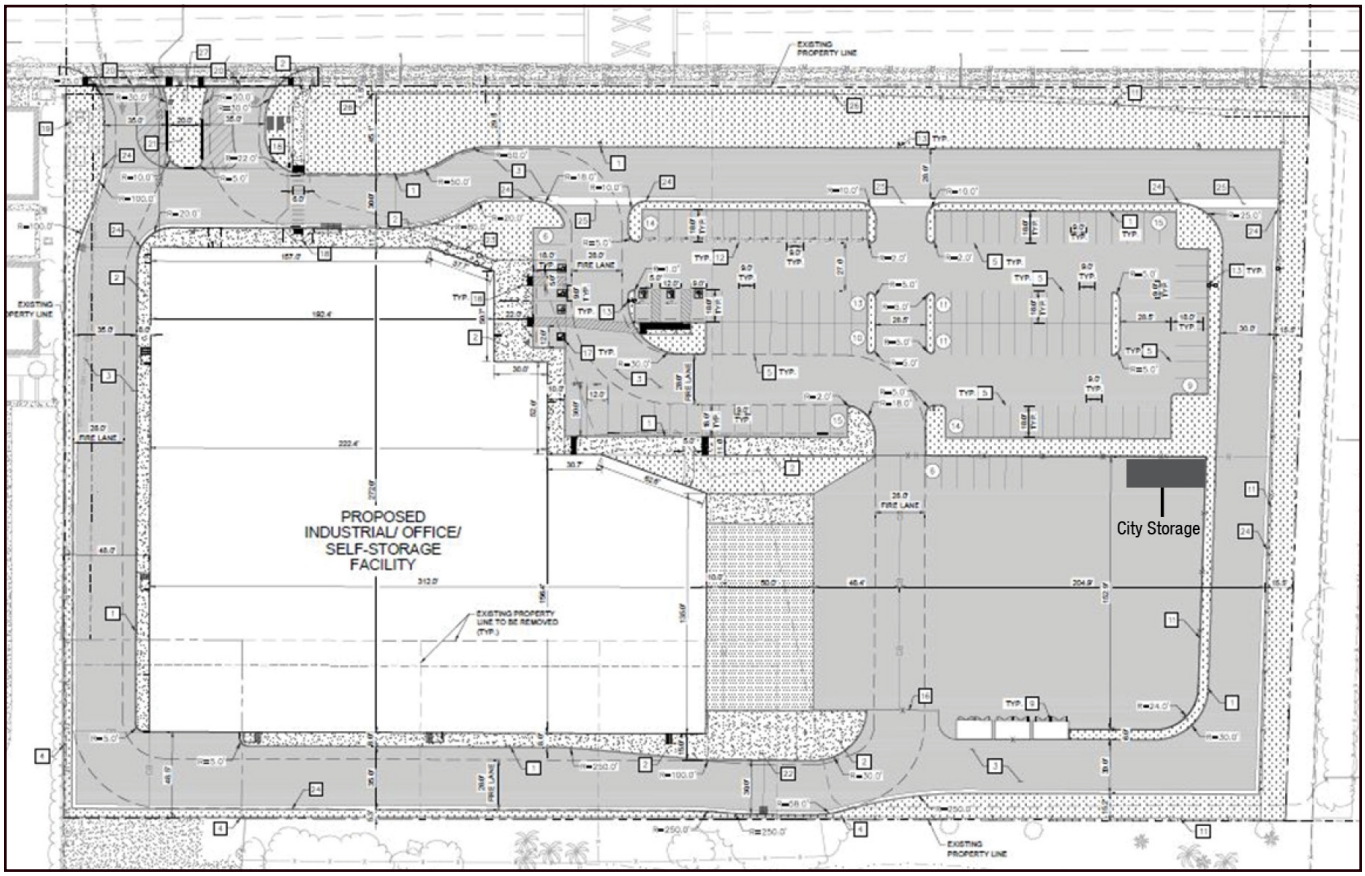


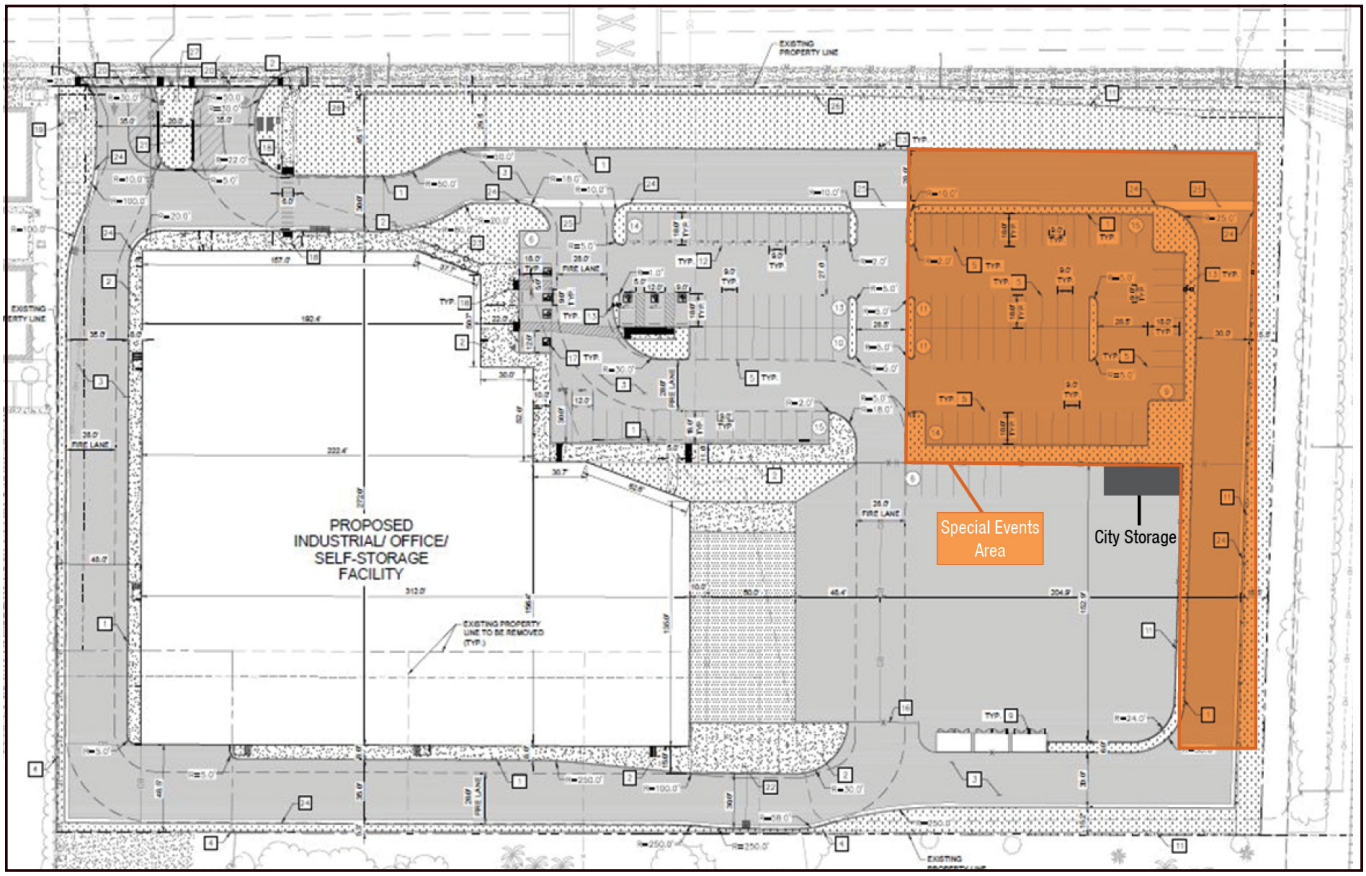
Figure 7: Site Plan and Land Use Plan

N.T.S.

The Land Use designation for the Specific Plan area is Specific Plan and the zoning is 1450 Artesia SP. A copy of the Site Plan, including renderings, is attached as **Appendix B: Site Plan**. Development within the Specific Plan area must be substantially in conformance with this Appendix.

Additionally, special events are a permitted use planned for approximately 36,000-SF portion (0.8 acre) of the parking area (over approximately 63 parking spaces). A storage building will be placed along the eastern edge of the truck area.

See **Figure 7a: Site Plan and Land Use Plan - Special Events Area with Circulation Buffer**.



N.T.S.

Figure 7a: Site Plan and Land Use Plan - Special Events with Circulation Buffer

4.3 TRANSPORTATION AND CIRCULATION PLAN

The circulation plan for the 1450 ASP is provided in **Figure 8: Proposed Circulation Plan - Vehicular Access**.

ON-SITE CIRCULATION AND ACCESS

An existing raised median along Artesia Boulevard limits access to eastbound right-turn entry/ right-turn exit site access only. The Project replaces two driveways on Artesia Boulevard, which currently allow both ingress and egress and are separated by approximately 100 feet. Two new driveways, one for ingress and one for egress, that are separated by a 20-foot landscape divide will be constructed as part of the Project. Each driveway will be 35-feet and located at the northwest corner of the Project site.

VEHICULAR ACCESS

The Project driveway will only service the Project. See **Figure 8: Proposed Circulation Plan - Vehicular Access.**

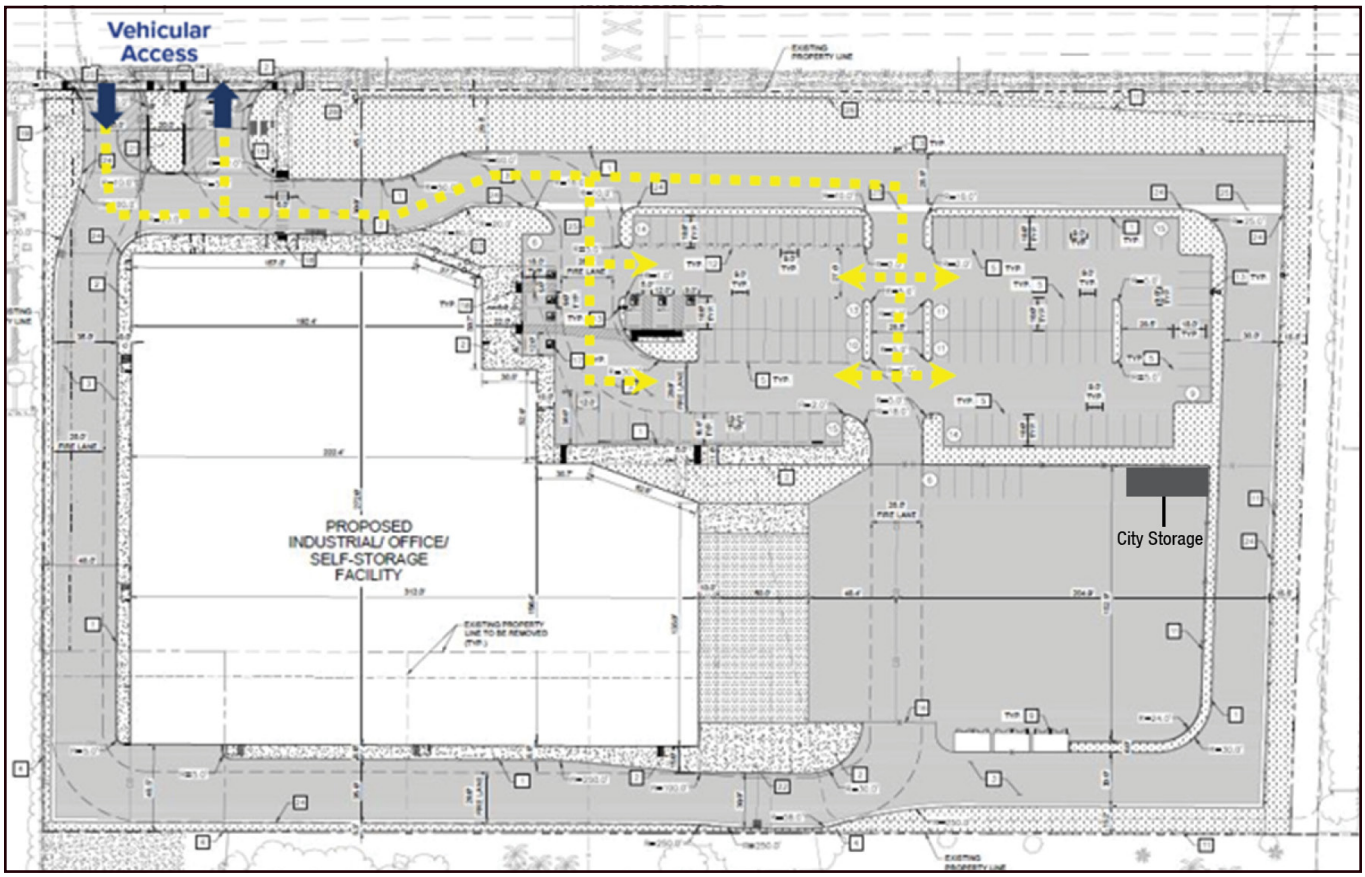


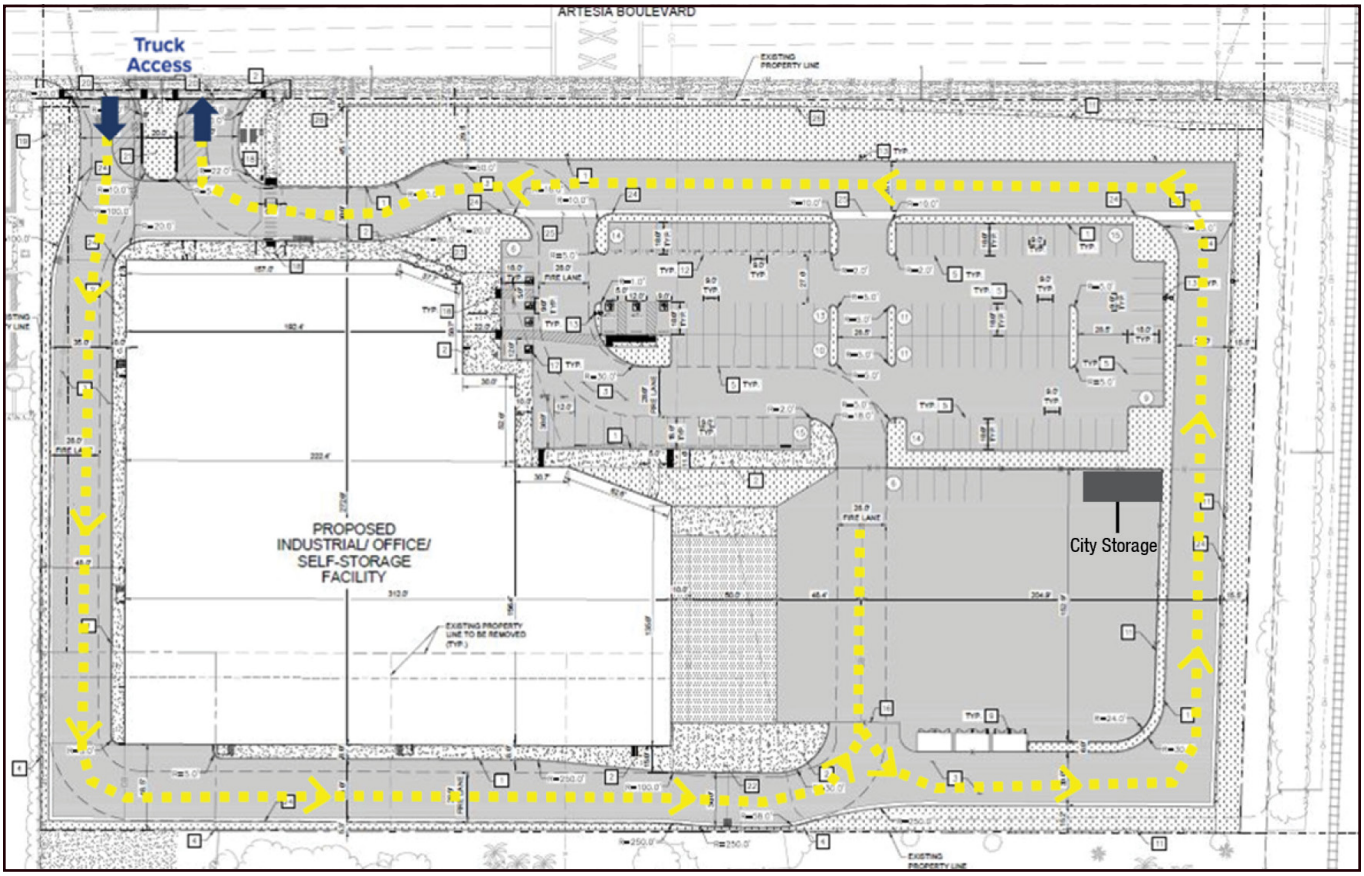
Figure 8: Proposed Circulation Plan - Vehicular Access

N.T.S.

Parking will be located along the Project site's northeastern portion. The Project proposes 124 automobile parking stalls and 10 dock doors. There is room for truck parking and staging within the secured truck parking. No parking will be allowed around the perimeter access loop.

TRUCK ACCESS

The dock doors would be oriented to face east. Trucks will access the Project similar to vehicular access with ingress within the northwest portion of the Project and circulation continuing along the western to southern edge of the property and into the loading docks. Trucks will exit the loading dock area heading north within the parking lot with egress back through the northwest of the Project site. The truck circulation will be a loop around the proposed building with an aim to ease flow of onsite traffic. See **Figure 9: Proposed Circulation Plan - Truck Access**.



N.T.S.

Figure 9: Proposed Circulation Plan - Truck Access

SPECIAL EVENTS TRUCK ACCESS

During the time of City special events, trucks will be required to exit the loading area in the same direction they entered and will not be allowed to circulate along the eastern and northeastern sides of the property. The City will be required to provide a temporary physical barrier to prevent circulation along the eastern and northern boundaries. Additionally, the City will be allowed to install temporary physical barriers to prevent vehicles from entering drive aisles near the event, provided that access is still provided to the parking areas for the self-storage uses. During the special events, the parking area for these events shall occur only in the Special Event Area as depicted in **Figure 7a: Site Plan and Land Use Plan - Special Events Area with Circulation Buffer** and in **Figure 9a: Proposed Circulation Plan - Truck Access Special Events Area**.

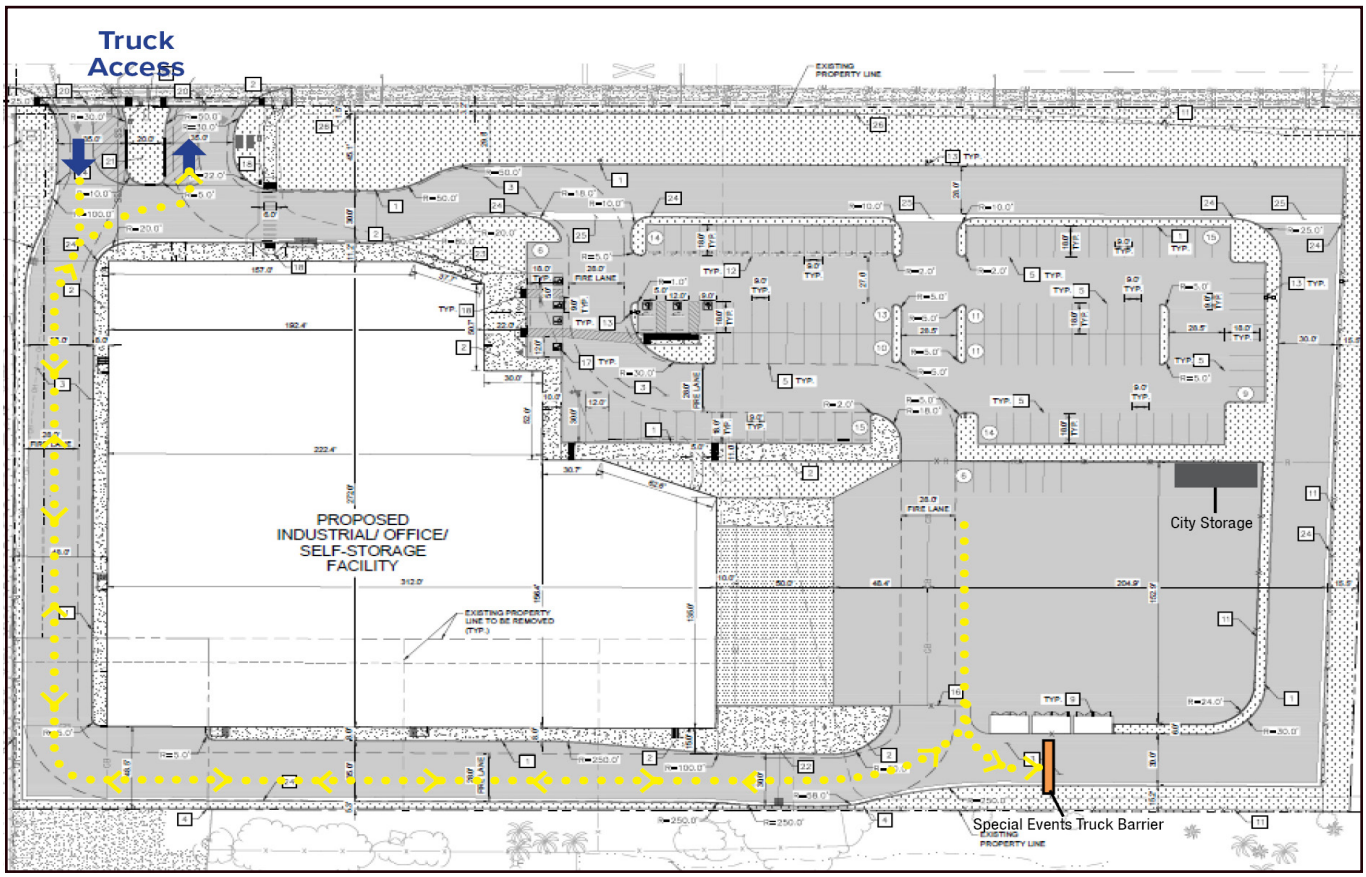
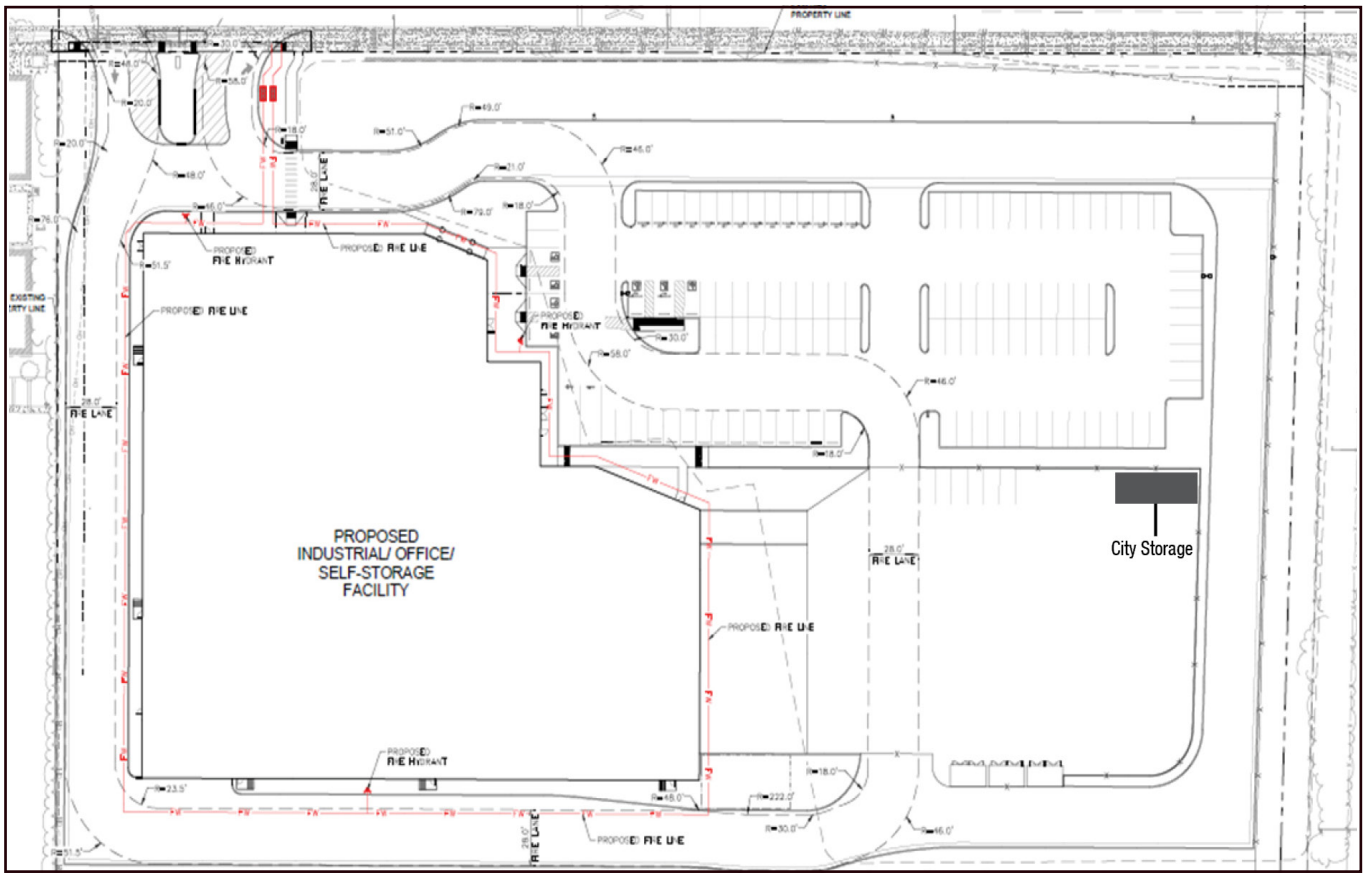


Figure 9a: Proposed Circulation Plan - Truck Access Special Events Area

N.T.S.

FIRE ACCESS

Per the Los Angeles County Fire Department, a 28-foot-wide fire access lane is required and provided surrounding the property structure with direct access to Artesia Boulevard. See **Figure 10: Proposed Fire Access.**



N.T.S.

Figure 10: Proposed Fire Access

PEDESTRIAN ACCESS

Pedestrian access to the Project site will be provided from sidewalks located along Artesia Boulevard with primary pedestrian access located at the building lobby located on the northern portion of the site and to the parking lot within the northeastern portion of the property. Areas with loading docks will be gated to prohibit pedestrian access for safety.

TRANSIT ACCESS

The Plan area is located in the vicinity of the following routes:

- Line 2 (GTrans): This line runs north south along South Western Avenue and Vermont Avenue in a loop. The nearest bus stop is located west of the Plan area at Artesia Boulevard and South Western Avenue approximately 0.5 miles from the Project site.

- Line 1 (Torrance Transit): This line goes from Del Amo Fashion Center at Carson and Hawthorne Boulevards to Figueroa Street located at the 105 Freeway. Both the northbound and southbound stops are at Vermont Avenue and Artesia Boulevard approximately 0.6 mile from the Project site.

- Line 13 (Torrance Transit): This line goes from Veteran's Park in Redondo Beach, north to Artesia Boulevard through Hermosa Beach to Vermont Avenue, past California State University Dominguez Hills, and ending in the City of Commerce across from the Crystal Casino. Both the eastbound and westbound stops are located directly in front of the Project site at Artesia Boulevard and Normandie Avenue.

- Line 344 (Metro): This line goes from Palos Verdes Drive and Hawthorne Boulevard to Artesia Boulevard, and then along Vermont Avenue to the Harbor Gateway Transit Center. The bus stops are also located directly in front of the Project site at Artesia Boulevard and Normandie Ave.

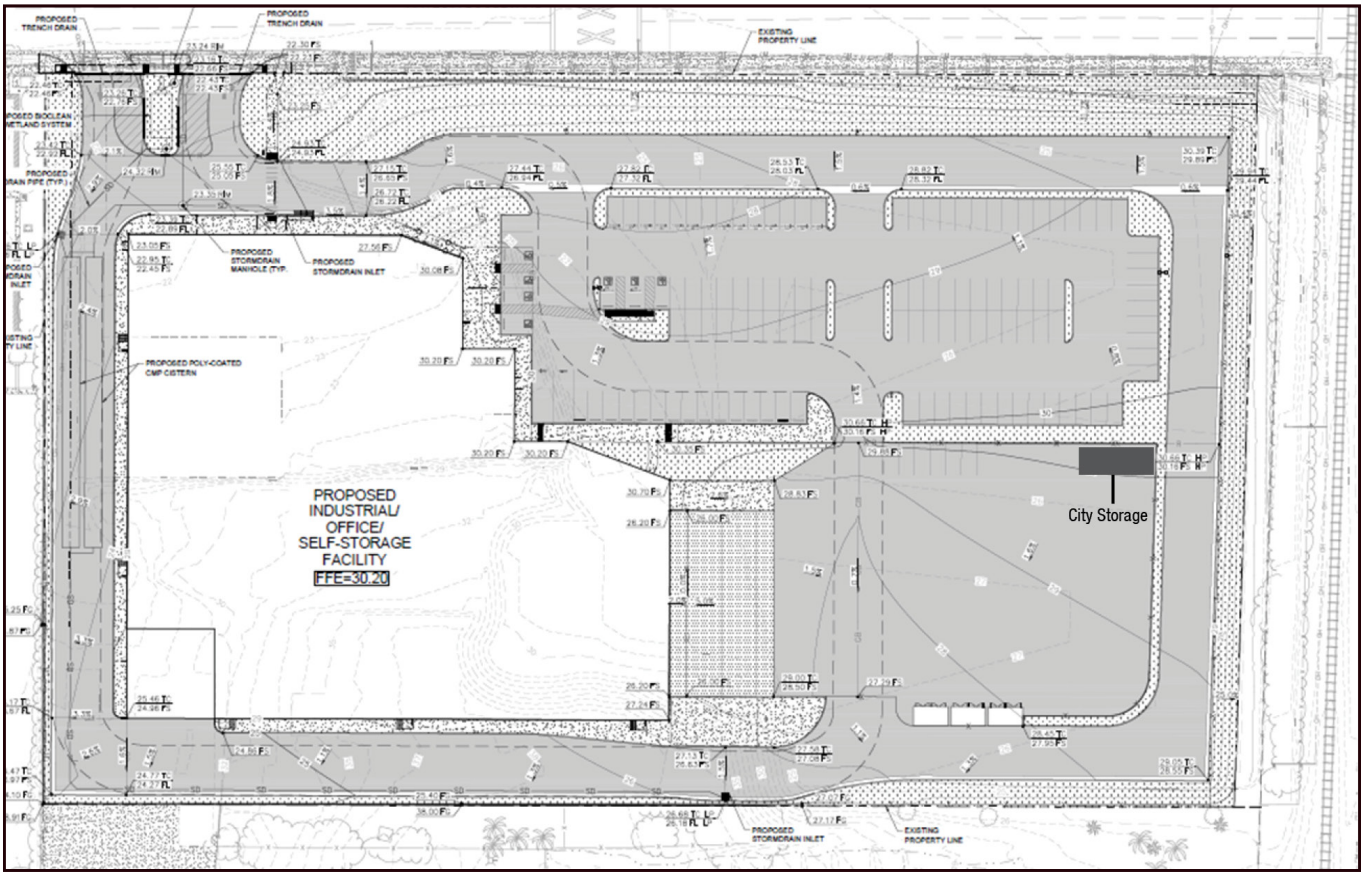
- Harbor Gateway Transit Center: The Transit Center, located at 731 West 182nd Street, is a large bus station that serves as a transport hub for the South Bay region of Los Angeles County, including the City of Gardena. The J line can be accessed from this station, which provides transit to both downtown Los Angeles and San Pedro. Numerous other lines can also be accessed from this station. The Transit Center also includes a 980-space park and ride. The Transit Center is approximately 1 mile from the Project site.

BICYCLE ACCESS

No bicycle lanes are provided along Artesia Boulevard as it is an arterial roadway prior to the entrance of State Route 91. Along the Dominguez Channel there is the Laguna Dominguez Bike Path; however, it is not connected within the City.

4.4 GRADING PLAN

The grading plan for the 1450 ASP area is provided in **Figure 11: Proposed Grading Plan.** The site will be graded to maintain the existing grading and drainage patterns. The overall site grading and drainage pattern will be towards the center of the parking lot following the planned drainage and storm drain system and further discussed in Stormwater and Drainage below.



N.T.S.

Figure 11: Proposed Grading Plan

4.5 PUBLIC FACILITES AND UTILITIES PLAN

Existing utility infrastructure capacity for this area has been confirmed through regional area capacity studies and load-based assessment using proposed development parameters as described in **Table 4-1, Public Services & Utilities**.

TABLE 4-1: PUBLIC SERVICES & UTILITIES

SERVICE TYPE	SERVICE PROVIDER
Fire protection	Los Angeles County Fire Department
Police protection	Gardena Police Department
Public Schools	Los Angeles Unified School District
Library	Mayme Dear Library
Water supply	Golden State Water Company
Sewer lines	City of Gardena Public Works Department
Sewage treatment	Los Angeles County Sanitation District Joint Water Pollution Control Plant
Gas supply	Southern California Gas Company
Electric supply	Southern California Edison
Telecommunications	Multiple Providers
Stormwater drainage	City of Gardena Public Works Department
Solid waste collection and disposal	Waste Resources of Gardena
Transit services	Bus services: G Trans (City of Gardena), Torrance Transit (City of Torrance), Los Angeles County Metropolitan Transportation Authority (Metro)

STORMWATER AND DRAINAGE

Five storm drain inlets are proposed within the 1450 ASP area leading to an underground poly-coated CMP cistern located within the western portion of the Site. Collected stormwater shall be carried to a subsurface detention basin installed downstream of storage for additional volume control and treatment. The underground stormwater cistern will detain water to mitigate flows to pre-project conditions and will detain for Low Impact Development (LID) storm event. From the underground stormwater cistern, water will be conveyed, through a flow-controlled outlet, to a LID biofiltration device prior to offsite release. No stormdrain piping, inlets or supporting infrastructure shall be included on the former sumps.

In compliance with existing regulations, the 1450 ASP developers will provide all necessary drainage improvements and implement best management practices (BMPs) in compliance with National Pollutant Discharge Elimination System (NPDES) requirements.

The drainage improvements are subject to the City's standard development review and permit process, including plan checks and inspections.

Based on City code, the project will be required to treat the volume of water as determined by the Los Angeles County 85th Percentile 24-hour event precipitation isohyetal map.

SEWER

The City as-built plans show an 8-inch sewer line approximately 24 feet east of the centerline of Normandie Avenue. There is an additional 21-inch trunk sewer main line on Artesia Boulevard at the centerline of the road with an average grade of 0.41 percent.

Onsite sewer lateral connects to the main line within Artesia Boulevard to serve the Plan area. The existing sewer demand of 604 GPD and the proposed total wastewater demand is 18,390 GPD.

WATER

GSWC Southwest System service area serves the Project. The water demands will increase to 20,043 GPD or 21 AFY with the Project. As noted above, there is an existing fire hydrant on the south side of Artesia Boulevard adjacent to the northwestern portion of the site.

Project development will include all state mandated water-saving features, including water-efficient faucets and toilets.

The Project will connect a domestic water line, a fire line, and irrigation line to the existing main.

ELECTRICAL POWER

As noted above, the site is currently served by overhead power lines on the south side of the Artesia Boulevard owned and maintained by Southern California Edison.

NATURAL GAS

As noted above, the site is currently served by underground lines within Artesia Boulevard owned and maintained by Southern California Gas Company.

SOLID WASTE

As noted above, solid waste pickup for the site will be handled by Waste Resources of Gardena. The trash pickup location will be coordinated with Waste Resources.

PUBLIC SERVICES

The Project site and surrounding area is developed and afforded all municipal services. Police protection services for the City are provided by the Gardena PD. Fire protection and emergency medical response services for the City are provided by the LACFD. Educational services are provided to the City by the LAUSD with three schools including 186th Street Elementary School, Peary Middle School, and Gardena Senior High School.

4.6 RECREATION AND OPEN SPACE PLAN

Based on the historical use of the site and known contamination beneath the site, open space and recreation areas are not provided within the Plan area.

4.7 PHASING PLAN

The Project within the 1450 ASP area is envisioned to be built in one phase. Phased occupancy of the Project is permitted.

4.8 LANDSCAPE PLAN

The Project landscaping will provide a distinct visual impression within the property and frontage of Artesia Boulevard to enhance the built environment with aesthetically pleasing and drought-tolerant landscaping and provide a high level of aesthetic standards complemented by the quality of the building materials. The landscape plan for the 1450 ASP area is provided in **Figure 12, Proposed Landscape Plan.**

STREETSCAPE

The Artesia Boulevard streetscape will provide a combination of shrubs and trees along the frontage of Artesia Boulevard as well as within the Project development to provide a valuable vertical element, and create a pedestrian scale screen between the ground level and the upper floors of the building. Areas within the DTSC environmental cap will include a combination of both boxed and elevated planters.

PLANT MATERIAL

The landscape plan includes a layered landscape program with the proposed plants throughout the Project regionally adapted with a focus on minimizing water use. The Project will be consistent with the State and City water efficient landscape ordinances, and a minimum of 75 percent of the plantings will be water efficient.

Figure 12: Proposed Landscape Plan

N.T.S.

The total landscaped area will be at least 50,000 SF; however, the exact amount will be determined based on final review from DTSC. All trees shall be a minimum of 24-inch box size and shrubs must be a minimum of 1 gallon size.

The plant design utilizes water-wise landscaping principles, including a low percentage of water-thirsty plants, smart irrigation controllers, drip irrigation, and weed germination. The Project's proposed plant schedule is shown in **Table 4-2, Plant Palette**.

TABLE 4-2: PLANT PALETTE

SYMBOL	CODE	BOTANIAL / COMMON NAME
	LW PC	Lagerstroemic indica x fauriei 'Natchez' / Natchez Crape Myrtle Multi-Trunk Pistacia chinensis/ Chinese Pistache
	AA	Agave attenuate/ Foxtail Agave
	AP	Agave parryi / Parry's Agave
	AB	Anigozanthos x 'Big Red' / Big Red Kangaroo Paw
	BR	Bougainvillea x 'Rosenka' / Rosenka Bougainvillea
	LH	Lantana x 'New Gold'/ New Gold Lantana
	MC	Melaleuca viminalis/ Weeping Bottlebrush
	MA	Muhlenbergia capillaris 'Autumn Blush' / Autumn Blush Pink Muhly Grass
	MD	Muhlenbergia Dubia / Pine Muhly
	OL	Olea Europaea 'Montra'/ Little Ollie Olive
	PF	Pennisentum x 'Fairy Tails' / Evergreen Fountain Grass
	PR	Phormuim Tenax 'Radiance' / New Zealand Flax
	PA	Phormium x 'Amazing Red'/ Amazing Red New Zealand Flax
	SS	Salvia greggi 'Furmans Red' / Furman's Red Autumn Sage
	WF	Westringia Fruticosa / Coast Rosemary
	RH	Rosmarinus officinalis 'Huntington Carpet'/ Huntington Carpet Rosemary
	TS	Trachelospermum jasminoides 'Star' / Star Jasmine

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5.0 DEVELOPMENT REGULATIONS AND REQUIREMENTS

This Chapter establishes the land use and development standards to establish the desired physical form and identity of the built environment. These regulations implement the Specific Plan Land Use Plan and ensure compatibility of land uses. Development standards address the physical features of each land use such as buildings, lots, setbacks, parking, landscaping, walls and fencing, outdoor storage, and signs. These standards address buildings and site improvements and are essential to achieve the vision of the Specific Plan.

5.1 GENERAL PROVISIONS

This Section applies to any development within the Specific Plan area. In reviewing individual projects requiring discretionary approval, additional conditions may be applied by the approving body to accomplish the goals and objectives of the Specific Plan and the General Plan.

5.2 ALLOWABLE LAND USES

Permitted uses are subject to all applicable development standards and guidelines outlined in this Chapter and Chapter 6 – Design Guidelines.

PERMITTED USES

A project in the Plan area shall only be occupied by land uses identified in this Specific Plan and shall be subject to the applicable City approval process identified in Chapter 8 (Implementation). The permitted uses and improvements described in this Section will conform to and be guided by the development standards in Section 5.3 below.

The following uses are permitted by right in the 1450 ASP area:

- Warehouse and Distribution – a maximum of 72,000 square feet. A warehouse is a business that is primarily used for storing products as needed. Warehouse and distribution uses can include, but not be limited to, product order fulfillment, online or otherwise, and product delivery, wholesale, e-commerce, and storage uses for air freight, aerospace, food and beverage, and studio uses.

- Self-storage – a maximum of 186,000 square feet
    - Ancillary sales to the self-storage use.
- Commercial office/retail- a maximum of 10,000 square feet
- Special Events as determined by the Parks and Recreation Director, which shall include events such as the following with space of up to 36,000 square feet:
    - Food trucks
    - Farmer's markets
    - Car shows
    - Live entertainment
    - Food giveaways
    - Community meetings
    - Health fairs
    - Mobile vaccination events
- City Storage – a maximum of 200 square feet
- Any other use not specifically listed here determined by the Community Development Director to be similar to a permitted use.

Any use not listed as a permitted use, and not found to be sufficiently similar to a permitted use by the Community Development Director, is prohibited.

PROHIBITED USES

- Cold storage warehouses.
- Fulfillment center warehouses that involve sorting, typically by manual means.

EXISITING LEGAL NON-CONFORMING

The 1450 ASP area currently comprises vacant residential and light industrial development. Following approval of this Specific Plan, the existing uses shall become legal nonconforming to the provisions of the Specific Plan. Any existing uses, buildings, structures, parking areas, landscaping and signage located in the Plan area that become non-conforming at the time of adoption of the Specific Plan will be permitted to remain but shall be subject to the provisions of GMC Section 18.54.040, which prevents nonconforming uses from being changed or expanded beyond what was established when the use became nonconforming.

SPECIAL EVENTS

Special events will be held approximately two to three times per month and shall not exceed 36 times per year. The events will be limited to Saturday and Sunday events (between 7 AM and 10 PM) with expected attendance of up to 250 attendees. Clean up may take place after 10:00 PM.

- The City shall not permit any attendee, City elected or appointed official or employee, contractor, vendor or any other person present at any of such special events from: (i) interfering with or disrupting the operations, use or quiet enjoyment of the Property by Developer, any of its tenants, or any principal, officer, manager, employee, invitee, vendor or contractor of Developer or any of its tenants, except for the change of truck access as described below, (ii) interfering or tampering with, damaging, impairing or altering any of the elements or features of the Final Remedial Action Plan approved by the California Department of Toxic Substances Control on July 17, 2022, or (iii) parking any vehicle in any of the Property's parking spaces or in any other area of the Property outside of the special event area or outside of the Property's southerly driveway outside of the truck court as depicted on **Figure 7a: Site Plan and Land Use Plan - Special Events with Circulation Buffer.**

- The City will notify the owner in writing at least fourteen (14) calendar days before each such event will take place describing the nature, date and duration of the event and the portion of the Special Event area on which the event will occur. The City shall be responsible for sponsoring, securing, and monitoring special events. Security and public services during special events shall be the City's responsibility.

- The City shall be provided with a storage building, at no cost, of at least 200 square feet to store items for the special events at the location shown on **Figure 7a: Site Plan and Land Use Plan - Special Events with Circulation Buffer.**

5.3 DEVELOPMENT STANDARDS

Development Standards apply to all land uses, structures, and related improvements in the Specific Plan area. Where specific development standards are not mentioned in this section, the applicable provisions of the GMC shall apply. The standards of this section control the physical dimensions and location of structures, and site improvements amongst the various land use areas to implement the Specific Plan Guiding Principles and Project Objectives and establish well-designed development projects within the Plan area that work in harmony with each other and minimize potential impacts to residential uses within the Plan area as well as adjacent sensitive uses.

MINIMUM LOT AREA

The minimum area permitted by the 1450 ASP shall be 6.33 acres. Individual lots shall be consolidated to meet the minimum lot area.

MAXIMUM BUILDING HEIGHT

Buildings shall not exceed a maximum of 75 feet in height as measured from the finished floor (i.e., the level of the finished floor on the ground level) to the highest point on the roof, including non-occupiable projections (including, without limitation, architectural features, elevator shafts mechanical equipment, stairwells, canopies, or shade structures).

BUILDING SETBACK LINE

No building or structure shall be constructed within the building setback line. All setbacks shall be free and clear to the sky relative to building or structure placement except for the following improvements:

Front: Along the Artesia Blvd. property line there shall be a minimum 48-foot setback.

Rear: Along the rear property line there shall be a 48-foot minimum setback.

Side (Eastern): Along the eastern property line there shall be a minimum 300-foot setback.

Side (Western): Along the western property line there shall be a minimum 40-foot setback.

Permitted Encroachments: Non-habitable architectural features (e.g., canopy or awning), landscaping, outdoor seating for pedestrians and similar features may encroach within required setback areas. Fire lanes, drive aisles, and the City's storage structure, may be located in the required side and rear yard setbacks.

FLOOR AREA RATIO

Pursuant to the General Plan, non-residential land use intensity is typically measured by the amount of building floor area allowed land acre, also referred to as Floor Area Ratio (FAR). Within the Specific Plan area, the FAR for each non-residential land use shall meet the following within Table 5-1, Non-Residential Floor Area Ratio.

TABLE 5-1:NON-RESIDENTIAL FLOOR AREA RATIO

LAND USE	MAXIMUM FAR
Integrated Commercial Industrial	1.0

5.4 ARCHITECTURAL STANDARDS

FACADES

A consistent architectural style shall be used for the building and its related elements (i.e., exterior lighting, canopies, trellises, etc.). Structures and walls and rooflines of structures shall contain a variety of distinct parts, architectural elements and surface treatments. There shall be variations and articulation on the façades of the building to add scale and avoid large monotonous walls.

Where the building mass cannot be broken up due to unique use constraints, i.e., warehouse space, building walls shall be articulated through the use of texture, color, material changes, shadow lines, and other façade treatments. All façades of the building shall be treated with equal architectural rigor, level of detail, and articulation.

MATERIALS

Materials shall be high quality, durable, and not readily deteriorate if exposed to the elements. The following materials are allowed:

- Stucco, Sand Fine Finish
- Screen Metal Panels
- Vision Glass
- Spandrel Glass

Architectural features and materials shall wrap corners and provide the same level of detail as the primary façade.

COLOR

Colors shall include a base color and a minimum of one accent color. Colors shall be similar to the renderings provided within **Figure 14: Color and Material Board**.

If subsequent renderings are provided with materials not allowed by this Chapter or colors not approved in accordance with the approved color list by the City Council, the changes shall be approved by the City Council. Otherwise, the Community Development Director may approve such changes.

5.5 LANDSCAPING REQUIREMENTS

Standards are to be used in conjunction with GMC Section 18.42.075 (Landscape regulations). The Projects shall provide and maintain landscaping and irrigation in compliance with applicable sections of this Specific Plan.

A landscaping plan shall be required for new or expanded buildings and structures including a minimum of five percent of total paved area used for driveways and parking outside of areas with mitigation measures in place (i.e., environmental cap) which do not allow for sub-surface disturbance.

Landscape along Artesia Boulevard shall be distinct from the surrounding streets to emphasize the throughway adjacent to the sites. Landscaping along these external edges will be more intense than interior landscaping but shall preserve and enhance strategic view corridors into the project to take advantage of frontage along this major traffic corridor.

All landscaping shall be well maintained and not interfere with pedestrian movement or impede the visibility of business and signage.

5.6 OFF-STREET PARKING AND LOADING STANDARDS

The following regulations establish minimum requirements and design standards for off-street parking of vehicles, trucks, and bicycles. The purpose of these regulations is to provide safe and convenient access, to ensure parking areas are properly designed, and to provide enough parking spaces to service the use, reduce traffic congestion, promote business, and enhance public safety. Compliance with the California Green Building Standards Code (CALGreen) is required pertaining to specific parking requirements for bicycle parking, designated parking for clean air vehicles, EV charging stations, and other parking requirements regulated by CALGreen.

5.7 VEHICLE PARKING

Table 5-2, Required Off-Street Parking identifies the minimum number of parking spaces for the uses listed under their respective categories.

TABLE 5-2: REQUIRED OFF-STREET PARKING

USE	PARKING REQUIREMENT RATIO
Warehouse	1 / 1,000 SF
Leasing Office	1 / 400 SF
Office / Retail (Mezzanine)	1 / 400 SF
Self-Storage	1.65 / 100 Units

OFF-STREET PARKING AND LOADING DESIGN STANDARDS

The following provides general parking and loading standards for the Specific Plan area. **Table 5-3, Off Street Parking and Loading Standards** establishes the design standards for off-street parking and loading. Refer to GMC Section 18.40. Off street vehicle parking for certain standards and procedures, including accessible parking space requirements and alternative parking programs. Off-street parking shall be provided in accordance with the GMC and all applicable City requirements and standards; however, there shall be no compact parking spaces.

TABLE 5-3: OFF-STREET PARKING STANDARDS

OFF-STREET PARKING STANDARDS	
CATEGORY	REQUIREMENT
Markings	All parking facilities, individual stalls, drive aisles, approach lanes, and maneuvering areas shall be clearly marked to expedite traffic movement. Once a parking facility has been marked in accordance with the approved site plan, the markings shall be maintained in good condition.
Loading Activity	All loading activity including turnaround and maneuvering shall be made on-site and contained within designated areas, such as loading zone, loading space, or loading docks. Loading activities should not block designated drive aisles/driveways, passenger vehicle areas, pedestrian paths, and emergency vehicle access. Buildings, structures, and loading facilities shall be designed and placed on the site so that vehicles, whether rear loading or side loading, may be loaded or unloaded without extending beyond the property line. Drive aisles shall be sufficient in length so that no queuing of trucks or delivery vehicles will occur within the public right-of-way.
OFF-STREET PARKING STANDARDS CONT.	
CATEGORY	REQUIREMENT
Safety	Pedestrian circulation in parking lot areas shall be planned to provide safety and convenience. Off-street parking areas shall incorporate walkways and striped paving in conjunction with landscaping to ensure the visibility and separation of pedestrians from vehicular paths.
Parking Lot Screening	The view of parking areas from public streets shall be softened by means of grading berms and/or landscaping.

PARKING SPACE DIMENSIONS	
Standard Parking	9-feet wide by 18-feet long
Wheel Stops	3- feet from the wall or property line.
Minimum Aisle width for parking angle	90 degrees: 26 feet
Maximum gradient at parking space	5% measured in any direction; 2% maximum for accessible parking spaces
DOCK-HIGH LOADING FACILITIES	
Loading door loading space	12-feet wide by 40-feet long with 14-foot minimum vertical clearance measured from finish service of loading dock, and shall be so arranged that it will not impede traffic circulation within the parking area and will not block parking stalls.
Truck maneuvering area	Designed to accommodate the minimum practical turning radius of a 53-foot semi-trailer and tractor combination.

5.8 MAINTENANCE STANDARDS

The site, including the City's storage building and public right of way in front of the site, shall be well maintained in an orderly manner during and following construction and timely and regular maintenance and necessary repairs shall be made to the Project's exterior and interior and City's storage building.

5.9 STANDARDS FOR WALLS/FENCING, OUTDOOR STORAGE, LIGHTING, SIGNAGE CITY STORAGE

WALLS AND FENCING

Walls, fences, and gates may be used to identify separate areas and provide needed privacy and security. Where constructed, walls, fences, and gates shall appear consistent in style and material, complementing the surrounding architectural styles.

The eight-foot-high decorated masonry wall along the western side of the property abutting the residential townhome development and shall remain. Security fencing along the perimeters of the property shall consist of wrought iron or tubular steel and shall be interspersed with stone, brick, stucco, or decorative block at a minimum of every six feet and shall be no more than six-feet in height. There shall be a minimum of three feet of landscaping between the front of the fence and the back of the sidewalk area closest to the fence along Artesia Boulevard. Along Normandie Avenue there must be a minimum setback of 15 feet from the front of the fence and the back of the sidewalk area closest to the fence.

OUTDOOR STORAGE

Outdoor storage and trash receptacles shall conceal the views of materials and products from streets and nearby properties. All outdoor storage of facilities for fuel, raw materials, and products shall be concealed from view from adjacent property and public rights-of-way. No material or

waste shall be deposited in such form or manner that it may be transferred off the lot by natural causes or forces. All materials or wastes which might cause fumes or dust, or which constitute a fire hazard, or which may be edible by or otherwise be attractive to rodents or insects shall be stored outdoors only in closed containers.

ENCLOSURE OF MECHANICAL EQUIPMENT

All mechanical equipment, plumbing lines, heating and cooling units, and storage tanks and ductwork (roof- or ground-mounted) shall be incorporated into the building envelope or roof in accordance with building code requirements.

LIGHTING AND SIGNAGE

A complete security and lighting plan shall be required including 2-foot candle (average) with min. 1-foot candle for all public/common areas.

All light fixtures shall be designed and located in a manner that does not allow spillover onto adjacent properties. Overly glaring and flashing lights are prohibited. Additionally, the exterior lighting fixtures shall be architecturally consistent with the design of the building, as reviewed and approved by the Director of Community Development. All signage shall be permitted per GMC Chapter 18.58.

CITY STORAGE

The city storage building shall be constructed of CMU blocks, built on a slab on grade foundation, and shall be provided with a steel door and LED motion detector lights on the inside. The storage building shall be designed to be compatible with the project, and shall be submitted to the Director of Community Development for review and approval.

5.10 CALGREEN STANDARDS

Plan area development shall conform to the most recent CALGreen mandatory sustainability standards in effect at the time of building plan submission. Compliance with these standards results in a reduction of energy usage for any given building or complex.

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6.0 DESIGN GUIDELINES

The following guidelines are specifically tailored to ensure the quality development envisioned for the 1450 ASP area.

6.1 ARCHITECTURE

DESIGN PRINCIPLES

The following design principles will ensure that development activity is integrated, sensitive to surrounding neighborhoods, provides positive imagery, and creates an inviting environment for residents and visitors, meeting the intent of the Specific Plan.

Design Principle 1: Provide for long-term high-quality development

The 1450 ASP area is envisioned to continue redevelopment along Artesia Boulevard. Building materials and landscaping should be chosen for their ability to be maintained in a cost-effective manner at the same high quality as when they were originally constructed and installed. Planning and building design should consider longevity and adaptability to future conditions and trends.

Design Principle 2: Improve the aesthetic of the environment for both workers and residents of the City

The Project development shall be required to maintain landscape parkways in decorative parkways of Project areas including concealing storage yards, parking, and service areas to minimize visual impacts on the public.

Design Principle 3: Utilize landscaping to beautify Gardena's streets and sidewalks

Unifying streetscape elements along the public right-of-way should be considered including landscaping to foster the City's streetscape.

Design Principle 4: Incorporate architectural features which will allow for the property to maintain ongoing operations.

As described in Chapter 5, the 1450 ASP shall utilize building design to consider the visual and physical relationship to adjacent uses. Long, blank walls shall be broken up with vertical and horizontal façade articulation achieved. See above for required architectural standards.

ARCHITECTRUAL STYLES AND SCALE

The Project should provide thematic elements that create a cohesive environment, including consistent and cohesive streetscape; strong relationships between the building, sidewalk, and other outdoor spaces; and comprehensive signage.

The 1450 ASP's regulation of the building envelope will contribute to a coherent building design and promote architectural unity in the Plan area.

ARCHITECTRUAL FEATURES

Architectural features are encouraged to create visual interest. **Figure 13: Architectural Features** below depicts the Project including styles, scale, siding materials, color and features.

Figure 13: Architectural Features

SIDING MATERIALS

The Project should include enhanced materials to complement the architectural design at pedestrian level and at other key elements of the building elevation. The selection of enhanced materials shall contribute to the visual quality of the streetscape.

COLOR

Color schemes should be selected with a harmonious range of accent materials and align with the color and materials board as depicted in **Figure 14: Color and Material Board**.

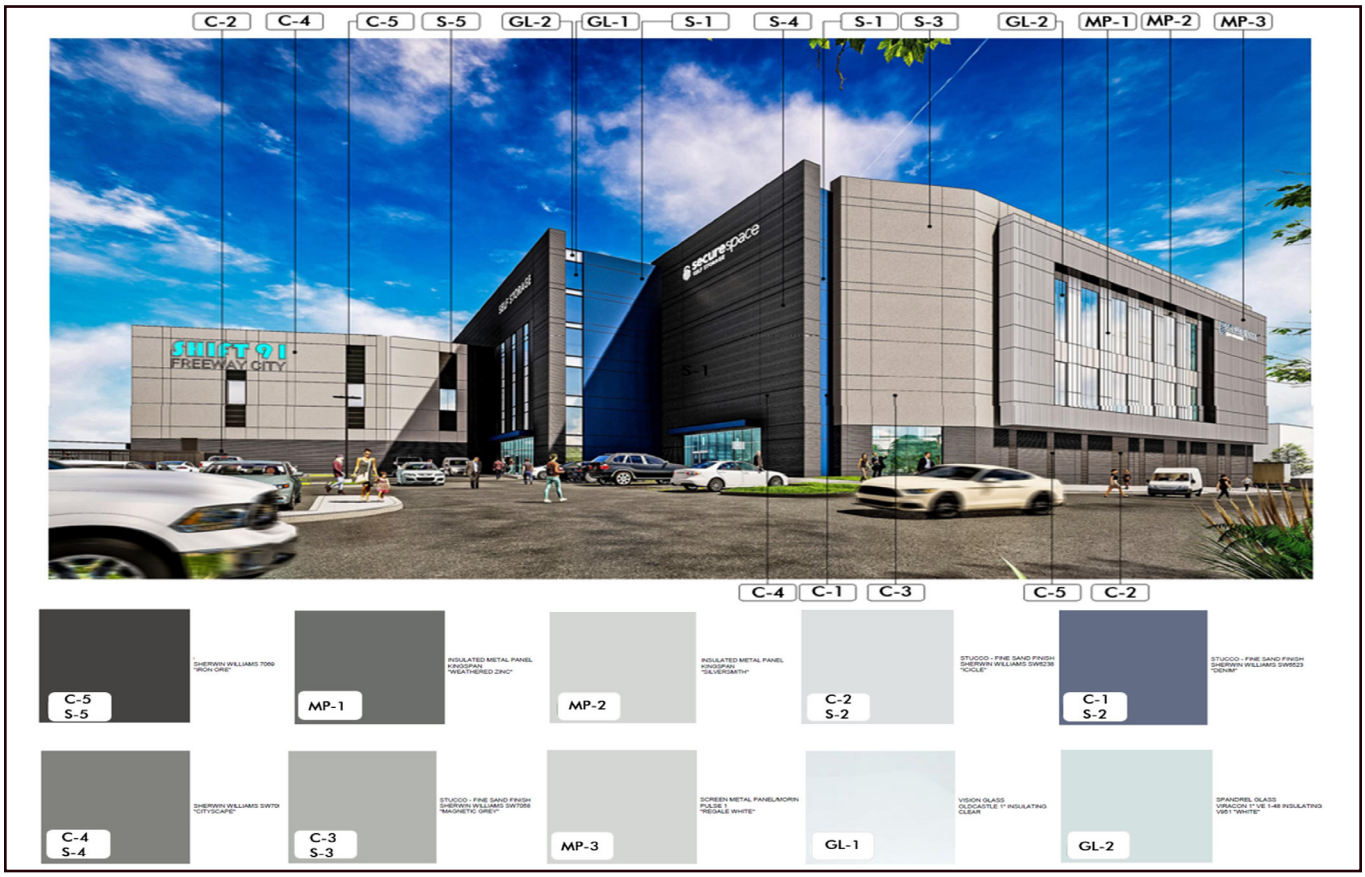

Figure 14: Color and Material Board

6.2 ARCHITECTURE LANDSCAPE AND STREETSCAPE

Landscaping for any development within the 1450 ASP area must be substantially consistent with the landscape plan concepts set forth in Chapter 4, Section VIII of this Specific Plan.

Buildings and major pedestrian entrances should be oriented toward centers of activity, such as the primary street frontage.

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7.0 GENERAL PLAN CONSISTENCY

7.1 APPLICABLE GOALS AND POLICIES

RELATIONSHIP TO GENERAL PLAN

The City's General Plan establishes the overall vision for growth and development in the community. The General Plan Land Use Plan establishes clear and logical patterns of land use and standards for new development.

The 1450 ASP provides for the orderly and efficient development and revitalization of the Specific Plan area consistent with the City's General Plan. The 1450 ASP is a regulatory document prepared pursuant to the provisions of California Government Code sections 65450 through 65457, which grant local government agencies the authority to prepare specific plans for the systematic implementation of their general plan for all or part of the area covered by the general plan.

State law requires that any specific plan be consistent with the City's General Plan. As the current Plan area is designated as Specific Plan, the 1450 ASP is in conformance with the General Plan Land Use Map.

RELATIONSHIP TO ZONING ORDINANCE

GMC Title 18 is the Zoning Ordinance, which provides the regulatory tool to implement the land use goals, policies, and actions established by the General Plan. The Zoning Ordinance identifies specific zone in the City and prescribes development standards and regulations that apply to each zone.

The Gardena Zoning Map identifies this property as 1450 Artesia Specific Plan. Section 18.08.015 of the Gardena Municipal Code provides that the 1450 Artesia SP zone is intended for a mix of commercial and industrial uses and no development will occur until a specific plan is adopted.

This Specific Plan fulfills the requirements of this section and will be adopted by Ordinance to implement the zone.

Where the Zoning Ordinance's regulations, development standards, design guidelines, and/or administrative procedures are inconsistent with this Specific Plan, the Specific Plan regulations, standards, guidelines, and procedures shall supersede. However, any issue not specifically addressed in the 1450 ASP shall be subject to the standards and regulations of the Zoning Ordinance.

SPECIFIC PLAN POLICIES

The policies in this section were established specifically for the 1450 ASP and provide guidance for new development, protection of human health and the environment, and public improvements in the Plan area. These policies apply throughout the 1450 ASP area and supplement the General Plan policies outlined in the consistency analysis below. Development proposals must be consistent with the policies of both the General Plan and this 1450 ASP.

Policy 1: Appropriate Land Use Development. Accommodate the development of land uses that include redevelopment of an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses while allowing for continued monitoring of remediated areas.

Policy 2: Quality Development. Achieve a long-term high-quality development by improving the aesthetic of the development for both workers and neighboring residents of the City with use of durable materials, pedestrian and streetscape amenities, attention to architectural detail, reduction of non-renewable resources, and limit pollutants and greenhouse gas emissions.

7.2 GENERAL PLAN CONSISTENCY ANALYSIS

The 1450 ASP is consistent with the following General Plan goals and policies:

COMMUNITY DEVELOPMENT ELEMENT - LAND USE PLAN

LU Goal 2: Develop and preserve high quality commercial centers and clean industrial uses that benefit the City's tax base, create jobs and provide a full range of services to the residents and businesses.

LU 2.1: Require ample landscaping and high-level maintenance in all new and existing commercial and industrial developments.

LU 2.2: Encourage the assembly of smaller commercial properties into larger centers and discourage the subdivision of larger commercial/industrial sites into smaller parcels.

Consistency: Consistent with LU Goal 2, the 1450 ASP's objective is to redevelop an underutilized, blighted and environmentally impacted property including nonconforming uses with economically vibrant clean industrial and commercial uses along a major development corridor within the City that will replace the former waste oil and industrial water uses that resulted in such impacts.

Consistency: Consistent with LU Policy 2.1, the 1450 ASP would require a landscaping plan for new or expanding buildings and structures in conformance with mitigation measures in place (i.e., environmental cap), which do not allow for sub-surface disturbance. Further, areas that are not

slated for parking or aisleways shall be landscaped and evenly distributed throughout the parking lot. Landscape along Artesia Boulevard would be well-designed and consistent with surrounding streets to emphasize the throughway adjacent to the site. Therefore, the 1450 ASP would be consistent with this policy.

Consistency: Consistent with LU Policy 2.2, the Project includes redevelopment with a mixed-use property comprised of a 268,000 gross-square-foot (GSF) building with associated surface parking, and landscaping and circulation improvements. The proposed development would contain a self-storage use (three levels above ground floor warehousing) totaling 186,000 GSF with 1,480 storage units, an industrial warehousing use (one level totaling 72,000 GSF plus ten loading docks), and an office/retail use (a mezzanine totaling 10,000 GSF). The Project would not include the subdivision of larger commercial/industrial sites into smaller parcels and instead, assembles industrial and residential properties into a larger center. Therefore, the 1450 ASP would be consistent with this policy.

LU Goal 3: Provide high quality, attractive and well-maintained commercial, industrial, and public environments that enhance the image and vitality of the City.

LU 3.1: Require adequate off-street parking, internal circulation and loading spaces for commercial developments.

LU 3.2: Encourage the upgrade and rehabilitation of existing commercial and industrial building facades and sites.

LU 3.4: Attract commercial and industrial uses that minimize adverse impacts on surrounding land uses and are economically beneficial to the City in terms of revenue generation and employment opportunities.

LU 3.5: Promote the development and preservation of attractive commercial and industrial development with ample landscape treatment, adequate parking and the full range of customer amenities.

LU 3.6: New commercial and industrial developments shall meet or exceed local and state requirements pertaining to noise, air, water, seismic, safety and any other applicable environmental regulations.

LU 3.7: Require the mitigation or remediation of potentially hazardous conditions in the City.

LU 3.8: Require all outdoor storage to be concealed from view from the public right of ways and adjoining land uses.

LU 3.9: Require loading and unloading of materials to be conducted completely on private property and out of sight from a public street.

LU 3.10: Ensure new development provides adequate improvements, dedications, and fees to the City to fully cover the cost of the City services and facilities.

Consistency: Consistent with LU Goal 3, the 1450 ASP's objective is to redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor at a key entrance intersection of the City.

The Project would be required to provide attractive landscaping, which would create an attractive and well-maintained commercial, industrial, and public environment that enhance the image and vitality of the City. Therefore, the 1450 ASP would be consistent with this goal.

Consistency: Consistent with LU Policy 3.1, the 1450 ASP provides off-street parking and loading design standards for the Specific Plan area that are consistent with the GMC and all applicable City requirements and standards. Therefore, the 1450 ASP would be consistent with this policy.

Consistency: Consistent with LU Policy 3.2, the 1450 ASP's objective is to redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor within the City. Therefore, the 1450 ASP would be consistent with this policy.

Consistency: Consistent with LU Policy 3.4, the Project would: redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor within the City; develop appropriate uses in an area with a legacy of contamination in a manner that protects human health and the environment and allows for continued monitoring of remediated areas; produce short-and long-term jobs during the Project's construction and operations phases; generate property and sales tax revenues for the City to enhance its services to the community and infrastructural improvements; and provide the City a substantial monetary public benefit to the City's General Fund. Therefore, the 1450 ASP would be consistent with this goal.

Consistency: As described above, consistent with LU Policy 3.5, the 1450 ASP's objective is to redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor within the City. The Project would be required to provide attractive landscaping, which would create an attractive and well-maintained commercial, industrial, and public environment that enhance the image and vitality of the City. Therefore, the 1450 ASP would be consistent with this policy.

Consistency: Consistent with LU Policy 3.6 and Policy 3.7, an Environmental Impact Report (EIR) has been prepared and certified in accordance with the provisions of the California Environmental Quality Act (CEQA) as defined by §15161 of the CEQA Guidelines to address the potential environmental effects of the 1450 ASP and greater area within the larger SP area surrounding the Project site, including impacts to noise, air, water, seismic safety, hazards and any other applicable environmental regulations. In conjunction with the EIR, the Project will implement mitigation measures to reduce potential impacts resulting from project implementation to a less-than-significant level [(SCH#2023060263)]. All mitigation measures identified in the EIR are incorporated in this Specific Plan by reference and are in Appendix A to this Specific Plan. Therefore, the 1450 ASP would be consistent with this policy.

Consistency: Consistent with LU Policy 3.8, the 1450 ASP requires outdoor storage and trash receptacles to conceal the views of materials and products from streets and nearby properties. All outdoor storage of facilities for fuel, raw materials, and products shall be concealed from view from adjacent property and public rights-of-way. No material or waste shall be deposited upon a subject lot in such form or manner that it may be transferred off the lot by natural causes or forces. All materials or wastes which might cause fumes or dust, or which constitute a fire hazard, or

which may be edible by or otherwise be attractive to rodents or insects shall be stored outdoors only in closed containers. Therefore, the 1450 ASP would be consistent with this policy.

Consistency: Consistent with LU Policy 3.9, the 1450 ASP requires all loading activity including turnaround and maneuvering to be made on-site and contained within designated areas, such as loading zone, loading space, or loading docks. Loading activities should not block designated drive aisles/driveways, passenger vehicle areas, pedestrian paths, and emergency vehicle access. Buildings, structures, and loading facilities shall be designed and placed on the site so that vehicles, whether rear loading or side loading, may be loaded or unloaded without extending beyond the property line. Drive aisles shall be sufficient in length so that no queuing of trucks or delivery vehicles will occur within the public right-of-way. Therefore, the 1450 ASP would be consistent with this policy.

Consistency: Consistent with LU Policy 3.10, all new developments within the City are subject to payment of development impact fees in place at time of submittal. The 1450 ASP and any development it facilitates would be required to pay any applicable fees to the City prior to building permit issuance. Therefore, the 1450 ASP would be consistent with this policy.

COMMUNITY DEVELOPMENT ELEMENT - ECONOMIC DEVELOPMENT PLAN

ED Goal 1: Promote a growing and diverse business community that provides jobs, goods and services for the local and regional market, and maintains a sound tax base for the City.

ED 1.4: Encourage high quality mixed-use development in underutilized commercial and industrial areas where it will improve the City's tax base and image.

ED 1.7: Encourage diversification of businesses to support the local economy and provide a stable revenue stream.

Consistency: Consistent with ED Goal 1, the 1450 ASP's objective is to redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor within the City. The 1450 ASP would facilitate the production of short-and long-term jobs during construction and operation phases. Additionally, the 1450 ASP would generate property and sales tax revenues for the City to enhance its services to the community and infrastructural improvements and would provide the City a substantial monetary public benefit to the City's General Fund. Therefore, the 1450 ASP would be consistent with this goal.

Consistency: Consistent with ED Policy 1.4, the 1450 ASP facilitates a transition of underutilized uses into a revitalized building for warehouse, distribution, office/retail and self-storage mixed-use building. Therefore, the 1450 ASP would be consistent with this policy.

Consistency: Consistent with ED Policy 1.5, the 1450 ASP is located at the corner of Artesia Boulevard and Normandie Boulevard and would facilitate redevelopment of an underutilized, blighted and environmentally impacted property with economically vibrant regional-serving industrial and commercial uses along this major development corridor within the City. Therefore, the 1450 ASP would be consistent with this policy.

Consistency: Consistent with ED Policy 1.7, the 1450 ASP's objective is to redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and

commercial uses along a major development corridor within the City. The Project includes redevelopment of mixed-use property comprised of a 268,000 GSF building with associated surface parking, and landscaping and circulation improvements. The proposed development would contain a diverse set of businesses to support the local economy and provide a stable revenue stream, including a self-storage use (four levels totaling 186,000 GSF with 1,480 storage units), an industrial warehousing, and distribution uses (one level totaling 72,000 GSF plus ten loading docks), and an office/retail use (a mezzanine totaling 10,000 GSF). Additionally, the City is proposing to host various medium-size special events on an approximately 36,000-SF portion (0.8 acre) of the proposed industrial use's parking area outside of operational working hours. Therefore, the 1450 ASP would be consistent with this policy.

ED Goal 3: Attract desirable businesses to locate in the City.

ED 3.3: Maintain a multidisciplinary proactive approach to improve the City's image as a desirable business location.

Consistency: Consistent with ED Goal 3, the 1450 ASP facilitates a transition of environmentally impacted property, underutilized uses and blighted areas into a revitalized building for warehouse, distribution, office/retail and self-storage mixed-use building. Further, the Project will facilitate development of appropriate uses in an area with a legacy of contamination in a manner that protects human health and the environment. Therefore, the 1450 ASP would be consistent with this goal.

Consistent with ED policy 3.3, the 1450 ASP adopts a multidisciplinary, proactive approach, supporting the expanding business sector with newly constructed, high-quality storage solutions. Therefore, the 1450 ASP would be consistent with this policy.

COMMUNITY DEVELOPMENT ELEMENT - COMMUNITY DESIGN PLAN

DS Goal 1: Enhance the visual environment and create a positive image of the City.

DS 1.6: Require streetscape development standards for major corridors, including landscaping to reinforce Gardena's community image.

Consistency: Consistent with DS Goal 1, the Project will enhance the visual environment by replacing a light manufacturing parcel with current U-Haul and metal works facility, a vacant parcel with a Department of Toxic Substance Control (DTSC) cap for contaminated sumps, and four residential parcels behind the industrial properties adjacent to the Dominguez Channel with a new modern facility for business storage solutions industrial and distribution development project. The Project will incorporate high-quality design and landscaping consistent with the standards of the 1450 ASP to further enhance the visual environment. Therefore, the 1450 ASP would be consistent with this policy.

Consistent with DS Policy 1.6, the 1450 ASP contains streetscape design standards, including landscaping to foster the City's streetscape and honor landscape setbacks that would reinforce the City's image. Therefore, the 1450 ASP would be consistent with this policy.

DS Goal 4: Achieve high quality design for commercial uses.

Consistent with DS Goal 4, the 1450 ASP contains design principles that will ensure that development activity is integrated, sensitive to surrounding neighborhoods, provides positive imagery, and creates an inviting environment for residents and visitors. Therefore, the 1450 ASP would be consistent with this goal.

DS Goal 5: Improve the aesthetic quality of the industrial environment for both workers and residents of the City.

DS 5.1: Industrial projects should be designed to convey visual interest and a positive image.

DS 5.2: Encourage the design of industrial buildings to consider the visual and physical relationship to adjacent uses. An industrial structure, which dominates the surrounding environment by its relative size, shall be discouraged.

DS 5.3: Industrial projects shall be required to: incorporate landscape setbacks and buffers; aesthetically treat horizontal and vertical design elements on building and perimeter walls; and conceal storage yards, parking, and service areas to minimize visual impacts on the public.

DS 5.4: Long, blank walls should be broken up with vertical and horizontal façade articulation achieved through stamping, colors, materials, modulation and landscaping.

Consistency: Consistent with DS Goal 5, the 1450 ASP facilitates a transition of underutilized and unaesthetic uses into a revitalized, aesthetic mixed-use building for warehouse, office/retail and self-storage uses. The Project will create a modern facility for business storage solution along Artesia Boulevard, which will attract businesses to locate in the City. Further, the Project will redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses along a major development corridor, which will help attract businesses to the City. The Project will also facilitate development of appropriate uses in an area with a legacy of contamination in a manner that protects human health and the environment. Therefore, the 1450 ASP would be consistent with this goal.

Consistency: Consistent with DS Policy 5.1, the Project would contain a self-storage use, an industrial warehousing use, and an office/retail use. The 1450 ASP contains development regulations and standards to which the proposed development would be required to adhere, as well as design guidelines, which would ensure the project would be designed to convey visual interest and a positive image. Therefore, the 1450 ASP would be consistent with this policy.

Consistency: Consistent with DS Policy 5.2, the 1450 ASP contains development regulations and standards and design guidelines that ensure that development activity is integrated, sensitive to surrounding neighborhoods, provides positive imagery, and creates an inviting environment for residents of and visitors to the City. Design Principle 2 states, "Improve the aesthetic of the industrial environment for both workers and residents of the City." This Design Principle encourages industrial projects to maintain landscape parkways in decorative parkways of industrial areas including concealing storage yards, parking, and service areas to minimize visual impacts on the public. Further, this Design Principle notes that an industrial structure which dominates the

surrounding environment by its relative size shall be discouraged. Therefore, the 1450 ASP would be consistent with this policy.

Consistency: Consistent with DS Policy 5.3, the 1450 ASP contains design guidelines that ensure that development activity is integrated, sensitive to surrounding neighborhoods, provides positive imagery, and creates an inviting environment for residents and visitors. Design Principle 3 states, "Utilize landscaping to beautify Gardena's streets and sidewalks." This Design Principle encourages unifying streetscape elements for major corridors, including landscaping, to foster the City's streetscape and honoring landscape setbacks. Therefore, the 1450 ASP would be consistent with this policy.

Consistency: Consistent with DS Policy 5.4, the 1450 ASP contains design guidelines that ensure that development activity is integrated, sensitive to surrounding neighborhoods, provides positive imagery, and creates an inviting environment for residents and visitors. Design Principle 4 states, "Incorporate architectural features which will allow for the property to maintain ongoing operations." This Design Principle encourages industrial building design to consider the visual and physical relationship to adjacent uses. Further, the Design Principle notes that long, blank walls should be broken up with vertical and horizontal façade articulation achieved through stamping, colors, materials, and modulation with fencing allowing for appropriate surrounding uses to continue with ongoing operations and safety. Therefore, the 1450 ASP would be consistent with this policy.

ENVIRONMENTAL JUSTICE ELEMENT

EJ Goal 1: Reduce greenhouse gas emissions, enhance air quality, and reduce impacts associated with climate change.

EJ 1.3: Require the mitigation or remediation of hazardous conditions in the City. (See also Policy LU 3.7)

Consistent with EJ Policy 1.3, 1450 ASP will continue to maintain DTSC oversight of long-term onsite remediation efforts and technologies in place (environmental cap) to ensure safety for public health and the environment. Further, the Project will facilitate development of appropriate uses in an area with a legacy of contamination in a manner that protects human health and the environment. Therefore, the 1450 ASP would be consistent with this goal.

EJ Goal 3: Promote access to healthy food and nutritional choices.

EJ 3.3: Encourage the establishment and operation of a farmer's markets, farm stands, mobile health food markets, and Community-Supported Agriculture programs.

Consistent with Goal 3 and Policy 3.3, City-sponsored special events will be permitted as part of permitted uses for the Plan area. A total of approximately 36,000-SF portion (0.8 acre) of the proposed industrial use's parking area will be used for special events approximately two to three times per month including food trucks farmer's markets, and food giveaways. This will further Policy 3.3 with a specific location to establish healthy food choices within the City.

COMMUNITY RESOURCES ELEMENT -CONSERVATION PLAN

CN Goal 2: Conserve and protect groundwater supply and water resources.

CN 2.2: Comply with the water conservation measures set forth by the California Department of Water Resources.

CN 2.6: Encourage and support the proper disposal of hazardous waste and waste oil. Monitor businesses that generate hazardous waste materials to ensure compliance with approved disposal procedures.

Consistent with CN Goal 2 and its supporting policies, the project conserves and protects groundwater supply and water resources through compliance with all applicable regulations, including the water conservation measures set forth by the Department of Water Resources. Additionally, due to the prior use of the site, an infiltration BMP is not considered feasible for the Project and will not be used since it has a high potential of transporting contamination to the groundwater. This will protect the groundwater below the Project site. Therefore, the 1450 ASP would be consistent with this goal.

Consistent with Policy 2.2, the Project must comply with all water conservation measures set forth by the California Department of Water Resources. Further, according to the Project's Preliminary Hydrology and Low Impact Development (LID) Report, all common landscape irrigation shall employ water conservation principals, including, but not limited to, provisions such as water sensors and programmable irrigation times for short cycles. Therefore, the 1450 ASP would be consistent with this policy.

Consistent with Policy 2.6, the Project must comply with all applicable regulations regarding the disposal of hazardous waste and waste oil during construction. Therefore, the 1450 ASP would be consistent with this policy.

CN Goal 4: Conserve energy resources through the use of technology and conservation methods.

CN 4.1: Encourage innovative building designs that conserve and minimize energy consumption.

CN 4.2: Require compliance with Title 24 CALGreen regulations to conserve energy.

Consistent with Goal 4 and Policy 4.1, the 1450 ASP facilitates warehouse, office/retail and self-storage mixed-use development meets high standards of environmental sustainability. Development within the Specific Plan area must be designed to achieve best practices for architectural design and land development that enhance the City's infrastructure, reduce consumption of non-renewable resources, and limit pollutants and greenhouse gas emissions. Therefore, the 1450 ASP would be consistent with this policy.

Consistent with Policy 4.2, projects within the 1450 ASP will conform to the most recent CALGreen sustainability standards in effect at the time of building plan submission. Therefore, the 1450 ASP would be consistent with this policy.

CN Goal 5: Protect the City's cultural resources.

CN 5.3: Protect and preserve cultural resources of the Gabrielino Native American Tribes found or uncovered during construction.

Consistent with Goal 5 and its supporting policies, the project will incorporate mitigation measures to protect and preserve any cultural resources of the Gabrielino Native American Tribe, or any other Tribe, found or uncovered during construction. Therefore, the 1450 ASP would be consistent with this policy.

*CONSERVATIO*N PLANCOMMUNITY SAFETY ELEMENT - PUBLIC SAFETY PLAN

PS Goal 1: A community that is highly prepared and equipped to handle emergency situations in order to minimize loss of life, injury, property damage, and disruption of vital services.

PS 1.7: Ensure that law enforcement, crime prevention, and fire safety concerns are considered in the review of planning and development proposals in the City.

Consistent with Goal 1 and Policy 1.7, the City has considered law enforcement, crime prevention, and fire safety concerns in its review of the 1450 ASP. The Project will comply with all applicable Fire Code and fire safety regulations. Therefore, the 1450 ASP would be consistent with this policy.

PS Goal 2: A City that is adequately prepared for fire emergencies.

PS 2.2: Require that all buildings and facilities within Gardena comply with local, state, and federal regulatory standards such as the California Building and Fire Codes as well as other applicable fire safety standards.

Consistent with PS Goal 2 and Policy 2.2, all projects within the 1450 ASP are required to comply with the local, state, and federal regulatory standards such as the California Building and Fire Codes as a condition of building permit approval. Therefore, the 1450 ASP would be consistent with this policy.

PS Goal 3: Protect the community from dangers associated with geologic instability, seismic hazards and other natural hazards.

PS 3.1: Require compliance with seismic safety standards in the California Building Code, as adopted and amended.

PS 3.2: Require geotechnical studies for all new development projects in the City, including those located in an Alquist-Priolo Earthquake Fault Zone or areas subject to liquefaction.

Consistent with Policy 2.3, all projects within the 1450 ASP are required to comply with the seismic safety standards in the California Building Code. Therefore, the 1450 ASP would be consistent with this policy.

Consistent with Policy 2.4, a geotechnical study was prepared for the Specific Plan area and the Project is required to comply with all recommendations contained therein. Therefore, the 1450 ASP would be consistent with this policy.

COMMUNITY SAFETY ELEMENT - NOISE PLAN

N Goal 2: Incorporate noise considerations into land use planning decisions.

N 2.4: Require mitigation of all significant noise impacts as a condition of project approval.

N 2.5: Require proposed projects to be reviewed for compatibility with nearby noise-sensitive land uses with the intent of reducing noise impacts.

Consistent with Goal 2, the City incorporated noise considerations into its review of the Specific Plan. Consistent with Policy 2.4 the EIR analyzed the Project's potential for generating noise impacts on the surrounding environment both during construction and operation; mitigation measures are included to mitigate noise impacts to the extent feasible. Consistent with Policy 2.5, the Project will conduct interior noise level studies and achieve interior noise level standards as required by the Building Code. Therefore, the 1450 ASP would be consistent with this policy.

N Goal 3: Develop measures to control non-transportation noise impacts.

N 3.2: Require compliance with noise regulations. Review and update Gardena's policies and regulations affecting noise.

N 3.3: Require compliance with construction hours to minimize the impacts of construction noise on adjacent land.

Consistent with Policy 3.2, the Project complies with the City's noise ordinance. Consistent with Policy 3.3, the Project complies with the City's regulations regarding permitted construction hours. Therefore, the 1450 ASP would be consistent with this policy.

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8.0 IMPLEMENTATION

8.1 PHASING PLAN

The project proposed under the 1450 ASP is envisioned to be built in one phase. Phased occupancy of the Project is permitted if approved by the Building Official.

8.2 PLAN REVIEW PROCESS

Development in the 1450 ASP area will be implemented through City review of maps, plans, plot plans, building permits, and other permits that may be required by the City to ensure compliance with the approved Site Plan #5-21. Any modifications to the Site Plans, attached hereto as Appendix B, including new construction or modifications to approved buildings - whether built or not, shall be reviewed by the Community Development Director for conformance with the General Plan, this Specific Plan, the Zoning Ordinance (if not superseded by this Specific Plan), and all other applicable documents.

8.3 CEQA REVIEW

For any subsequent discretionary approvals requiring further CEQA review, the City as lead agency will rely on the certified EIR, together with any necessary errata, addenda or subsequent or supplemental environmental documents to the fullest extent permitted by CEQA.

8.4 INFRASTRUCTURE IMPROVEMENTS/COORDINATION

The developer and/or property owner shall be responsible for making transportation and infrastructure utility improvements identified as part of the 1450 ASP. All improvements shall be to the specifications of the City Community Development Department, Public Works Department, or another applicable department.

8.5 FINANCING MEASURES

Implementation and financing of improvements of the 1450 ASP depend exclusively on private investment and development. The developer and/or property owner shall be responsible for financing the Project, including all improvements and mitigation measures.

8.6 ADMINISTRATION OF PLAN

FRAMEWORK

Approval of the 1450 ASP indicates acceptance by the Gardena City Council of a specific framework for the development of the Specific Plan area. That framework establishes specific standards and regulations, including permitted uses and development standards that constitute the zoning regulations for the Specific Plan area and regulate development within the Plan area.

REVIEW AUTHORITY

The Community Development Director and City Planning Commission shall administer the 1450 ASP in accordance with the GMC provisions, except to the extent superseded by the provisions of this Specific Plan.

INTERPRETATION

In case of uncertainty or ambiguity to the meaning or intent of any provision of this Specific Plan, the Community Development Director has the authority to interpret the intent of the provision in question. The Director may, at his/her discretion, refer interpretations to the Planning Commission for consideration and action. Such a referral shall be accompanied by a written analysis of issues related to the interpretation. All interpretations made by the Community Development Director may be appealed to the Planning Commission in accordance with the appeal procedures set forth in GMC Title 18. When used in this 1450 ASP, the words “shall” and “must” are always to be construed as mandatory. The word “should,” as used in the design guidelines section of this plan, is not to be construed as mandatory but rather, as strongly recommended.

The 1450 ASP is not intended to interfere with, abrogate, or annul any easement, covenant, or other agreement to which the City is a party.

Where the Zoning Ordinance’s regulations, development standards, design guidelines, and/or administrative procedures are inconsistent with this Specific Plan, the Specific Plan regulations, standards, guidelines, and procedures shall supersede and control. However, any issue not specifically addressed in the 1450 ASP shall be subject to the standards and regulations of the Zoning Ordinance.

SEVERABILITY

If any section, subsection, sentence, clause, or phrase of this Specific Plan, or future amendments or additions hereto, is for any reason held to be invalid or unconstitutional by the decision of any court, such decision shall not affect the validity of the remaining portions of the Specific Plan.

SUBSTANTIAL CONFORMANCE

Substantial Conformance allows for administrative approval and interpretation of minor modifications to the Specific Plan text, graphics, and/or approved project design that do not change the Specific Plan's meaning or intent or create a substantial modification of the approved Site Plan. Through this administrative review process the Community Development Director may find the project to be in substantial conformance with the Specific Plan and the Site Plan Review approval provided no significant modifications are proposed that require a Specific Plan amendment, as described in detail below.

SPECIFIC PLAN AMENDMENT

Amendments to this Specific Plan shall be processed for "significant" modifications in accordance with the applicable provisions of state law provided in California Government Code sections 65450 et seq. The procedures in GMC Section 18.39.030 shall be followed for a proposed Specific Plan amendment. Each request for amendment shall specify the sections or portions of the Specific Plan that are affected by the amendment.

Any proposed "significant" modification which results in any of the following requires an amendment to the Specific Plan:

1. Any change in the permitted uses set forth in Chapter 5, Section I of this Specific Plan.

2. An increase in building height.

3. Any decrease in any ground floor side yard building setback.

4. A decrease in the amount of vehicular parking within the Specific Plan area by more than three spaces.

5. A substantial deviation, as determined by the Community Development Director, from the architecture approved in the Site Plan.

Other than the "significant" modifications listed above that require a Specific Plan Amendment, all other modifications to the project are considered "minor" and may be processed via administrative Substantial Conformance review and approval.

Any modifications to the Site Plan, including a change to materials or colors used, shall be subject to the review and approval of the Community Development Director who will determine whether the change is "significant" or "minor." If the Director determines that the change is significant, but still within the scope of the Specific Plan, the modification shall be approved by the Planning Commission, but no Specific Plan amendment shall be required.

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APPENDIX A: MITIGATION MONITORING AND REPORTING PROGRAM

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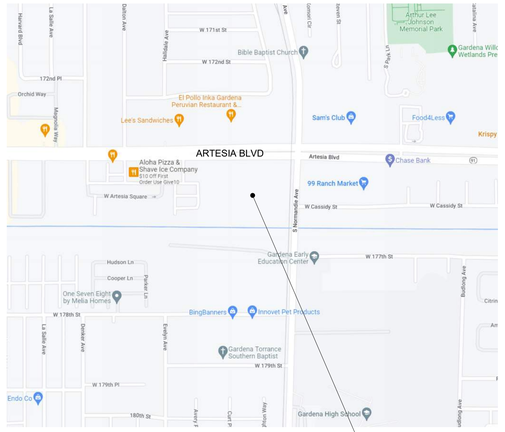
APPENDIX B: SITE PLAN



VICINITY MAP

SHEET INDEX

Sheet Number	Sheet Name
G101	COVER SHEET
G102	EXISTING SITE AND CONTEXT PHOTOS
1	ALTA SURVEY
2	ALTA SURVEY
3	ALTA SURVEY
4	TOPOGRAPHIC SURVEY
5	TOPOGRAPHIC SURVEY
6	TOPOGRAPHIC SURVEY
7	TOPOGRAPHIC SURVEY
C100	PRELIMINARY CIVIL SITE PLAN
C200	FIRE PLAN
C300	PRELIMINARY GRADING PLAN
L100	PRELIMINARY LANDSCAPE PLAN
L101	PRELIMINARY LANDSCAPE SCHEDULE
A101	PRELIMINARY SITE PLAN
A201	LEVEL 1 - OVERALL FLOOR PLAN
A202	LEVEL 2 - OVERALL FLOOR PLAN
A203	LEVEL 3 - OVERALL FLOOR PLAN
A204	LEVEL 4 - OVERALL FLOOR PLAN
A205	LEVEL 5 - OVERALL ROOF PLAN
A401	OVERALL BUILDING ELEVATIONS
A402	OVERALL BUILDING ELEVATIONS
A501	BUILDING SECTIONS
A901	MATERIAL BOARD
A902	PROJECT RENDERINGS

PROJECT SUMMARY

PROJECT ADDRESS:	1450 WEST ARTESIA BOULEVARD	
PARCEL NUMBER(S):	6106-036-034, 6106-036-035 6106-036-036, 6106-036-037 6106-036-012, 6106-036-010	
SITE AREA:	6.53 ACRES (284,235 SF)	
PERVIOUS AREA:	78,076 SF	
IMPERVIOUS AREA:	206,159 SF	
TOTAL SITE AREA:	**284,235 SF**	
OVERLAY DISTRICTS:	ARTESIA CORRIDOR SPECIFIC PLAN	
	EXISTING	PROPOSED
ZONING:	SPECIFIC PLAN	SPECIFIC PLAN
FAR:	--	.94
SETBACKS		
FRONT:	10'	86'
SIDE:	10'	48', 336'-6"
REAR:	10'	48'
HEIGHT:	100'	75'
CONSTRUCTION TYPE:	TYPE II-B FULLY SPRINKLERED PER NFPA 13	
OCCUPANCY:	S-1/B INDUSTRIAL	
BUILDING FOOTPRINT	**72,000 SF**	
INDUSTRIAL (1 LEVEL)	72,000 SF	
OFFICE/RETAIL (MEZZANINE)	10,000 SF	
SELF STORAGE (3 LEVELS)	186,000 SF	
TOTAL GROSS BUILDING AREA:	**268,000 SF**	

PARKING INFORMATION

EXISTING PARKING	-
PARKING PROVIDED:	
STANDARD SPACES:	103 SPACES
ACCESSIBLE:	7 SPACES
EV:	14 SPACES
TOTAL:	124 SPACES

InSite

This conceptual design is based upon a preliminary review of entitlement requirements and on unverified and possibly incomplete site and/ or building information, and is intended merely to asist in exploring how the project might be developed. Signage, materials, and other visualization tools are for illustrative purposes only and does not necessarily reflect municipal code compliance.

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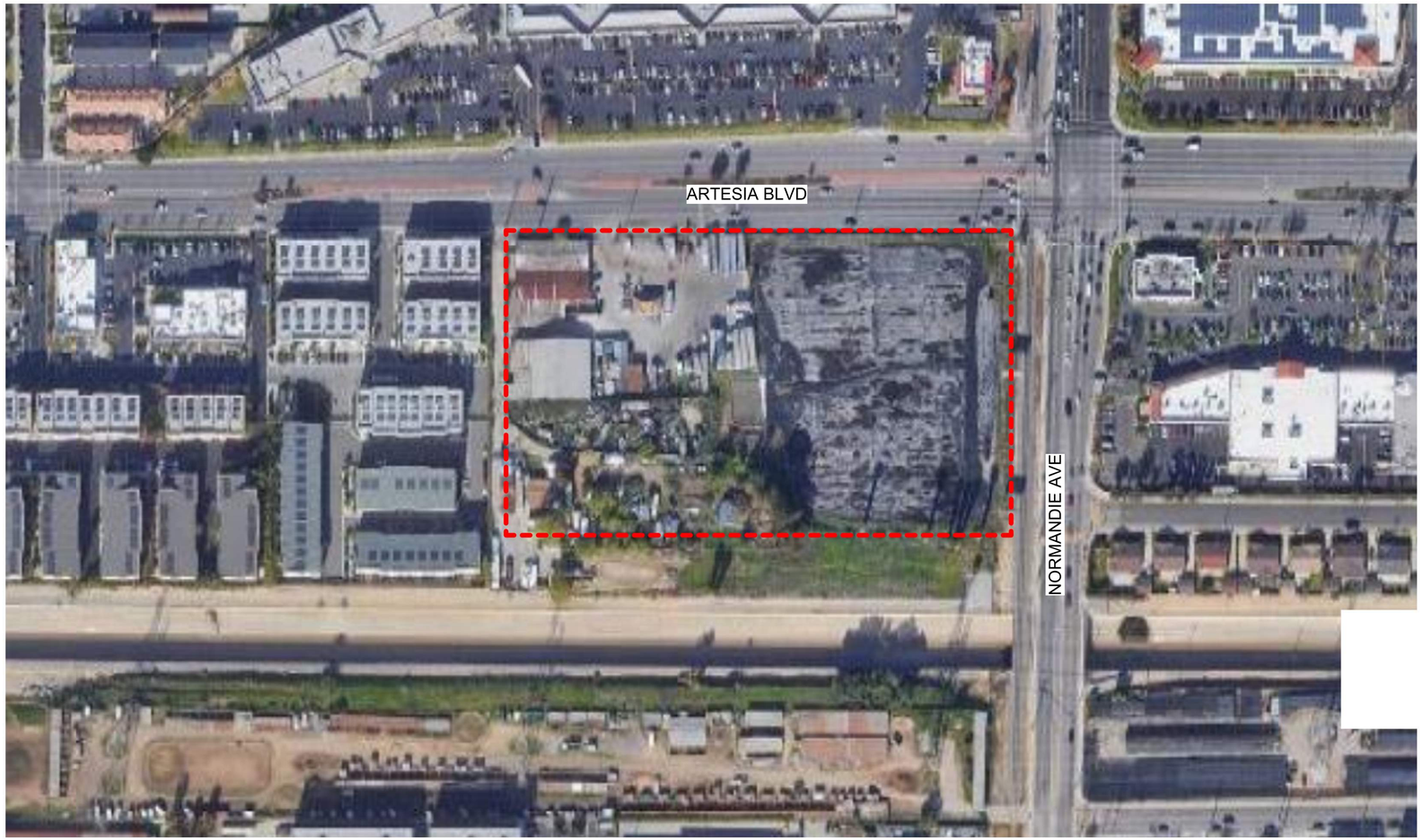
NOT FOR CONSTRUCTION

2/15/2024 12:26:53 PM

SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

COVER SHEET

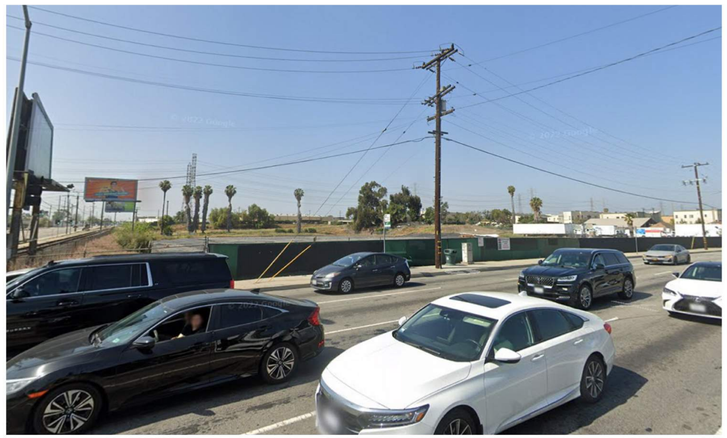
G101



EXISTING SITE

EXISTING PHOTO 1

EXISTING PHOTO 2



EXISTING PHOTO 3

EXISTING PHOTO 4

EXISTING PHOTO 5

InSite

This conceptual design is based upon a preliminary review of entitlement requirements and on unverified and possibly incomplete site and/ or building information, and is intended merely to assist in exploring how the project might be developed. Signage, materials, and other visualization tools are for illustrative purposes only and does not necessarily reflect municipal code compliance.

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NOT FOR CONSTRUCTION

2/15/2024 12:26:57 PM

SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

EXISTING SITE AND CONTEXT PHOTOS

G102

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

1440, 1450,1452, 1462 W. ARTESIA BOULEVARD, GARDENA, CA 90248

LEGAL DESCRIPTION PER TR NO. 09197075

ALL THAT CERTAIN REAL PROPERTY SITUATED IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

THE WESTERLY 362.49 FEET OF THAT PORTION OF LOT 101 OF THE MCDONALD TRACT, IN THE CITY OF GARDENA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 15, PAGES 21 AND 22 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING NORTHERLY OF A LINE THAT IS PARALLEL WITH AND DISTANT 350.00 FEET NORTHERLY MEASURED AT RIGHT ANGLES † FROM THE NORTHERLY LINE OF THE SOUTHERLY 15.00 ACRES OF SAID LOT AND LYING EAST OF THE EAST LINE OF THE WEST 5.00 ACRES OF THE NORTHERLY 17.98 ACRES OF SAID LOT (ACREAGE COMPUTED TO THE CENTER LINE OF ADJOINING STREETS).

EXCEPT THAT PORTION OF SAID LAND LYING NORTHERLY OF A LINE THAT IS PARALLEL WITH AND DISTANT 55.00 FEET SOUTHERLY MEASURED AT RIGHT ANGLES FROM THE CENTER LINE OF 174TH STREET, 60 FEET WIDE, SHOWN ON THE MAP OF SAID TRACT AS AN UNNAMED STREET BETWEEN LOTS 100 AND 101.

ALSO EXCEPT THEREFROM ONE-HALF OF ALL OIL, GAS, PETROLEUM AND OTHER HYDROCARBON SUBSTANCES IN AND UNDER SAID LAND, RESERVED IN DEED EXECUTED BY DENYS G. GODDARD, A SINGLE MAN, RECORDED JUNE 19, 1947 IN BOOK 24676, PAGE 272, OFFICIAL RECORDS.

ASSESSOR'S PARCEL NUMBER: 6106-036-035

SCHEDULE B ITEMS PER TR NO. 09197075

BASED UPON TITLE REPORT NO. 9197075-919-KCR-KRE, DATED JANUARY 26, 2022, 2021 AS PREPARED BY COMMONWEALTH LAND TITLE INSURANCE COMPANY .

A.- TAXES (NOT A SURVEY MATTER).

B.- TAXES (NOT A SURVEY MATTER).

C.- TAXES (NOT A SURVEY MATTER).

D.- TAXES (NOT A SURVEY MATTER).

1.- WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT DISCLOSED BY THE PUBLIC RECORDS (NOT A SURVEY MATTER).

(2) EASEMENT(S) FOR INGRESS AND EGRESS PURPOSES, AS INSTRUMENT RECORDED IN BOOK 24676, PAGE 272 OF OFFICIAL RECORDS (PLOTTED HEREON).

(3) EASEMENT(S) FOR INGRESS AND EGRESS PURPOSES, AS INSTRUMENT RECORDED IN BOOK 26984, PAGE 281 OF OFFICIAL RECORDS (PLOTTED HEREON).

4.- AN ACTION COMMENCED MARCH 18, 1953 ENTITLED THE STATE OF CALIFORNIA VS VIRGIL C. COMPARETTO (NOT A SURVEY MATTER).

(5) EASEMENT(S) FOR PUBLIC HIGHWAY SLOPES PURPOSES, DATED NOVEMBER 13, 1953, AS INSTRUMENT NO. 4423 IN BOOK 43161, PAGE 136 OF OFFICIAL RECORDS (PLOTTED HEREON).

6.- WAIVER OF ANY CLAIMS FOR DAMAGES TO SAID LAND BY REASON OF THE LOCATION, CONSTRUCTION, LANDSCAPING OR MAINTENANCE OF THE STREET OR HIGHWAY ADJOINING SAID LAND (NOT A SURVEY MATTER).

7.- INTENTIONALLY DELETED

8.- INTENTIONALLY DELETED

9.- INTENTIONALLY DELETED

10.- ANY INVALIDITY OR DEFECT IN THE TITLE OF THE VESTEES IN THE EVENT THAT THE TRUST REFERRED TO HEREIN IS INVALID OR FAILS TO GRANT SUFFICIENT POWERS TO THE TRUSTEE(S) OR IN THE EVENT THERE IS A LACK OF COMPLIANCE WITH THE TERMS AND PROVISIONS OF THE TRUST INSTRUMENT (NOT A SURVEY MATTER).

11.- TAX (NOT A SURVEY MATTER).

12.- AN ABSTRACT OF JUDGMENT (NOT A SURVEY MATTER).

13.- AN ABSTRACT OF JUDGMENT (NOT A SURVEY MATTER).

14.- TAX (NOT A SURVEY MATTER).

15.- AN ABSTRACT OF JUDGMENT (NOT A SURVEY MATTER).

16.- TAX (NOT A SURVEY MATTER).

17.- THE EFFECT OF A QUITCLAIM DEED (NOT A SURVEY MATTER).

18.- PLEASE BE ADVISED THAT OUR SEARCH DID NOT DISCLOSE ANY OPEN DEEDS OF TRUST OF RECORD. IF YOU SHOULD HAVE KNOWLEDGE OF ANY OUTSTANDING OBLIGATION, PLEASE CONTACT THE TITLE DEPARTMENT IMMEDIATELY FOR FURTHER REVIEW PRIOR TO CLOSING (NOT A SURVEY MATTER).

19.- THE COMMUNITY INTEREST OF THE SPOUSE OF THE VESTEE (NOT A SURVEY MATTER).

20.- THE COMMUNITY INTEREST OF THE SPOUSE OF THE VESTEE (NOT A SURVEY MATTER).

21.- ANY RIGHTS OF THE PARTIES IN POSSESSION OF A PORTION OF, OR ALL OF, SAID LAND, WHICH RIGHTS ARE NOT DISCLOSED BY THE PUBLIC RECORDS (NOT A SURVEY MATTER).

22.- DISCREPANCIES, CONFLICTS IN BOUNDARY LINES, SHORTAGE IN AREA, ENCROACHMENTS, OR ANY OTHER MATTERS WHICH A CORRECT SURVEY WOULD DISCLOSE AND WHICH ARE NOT SHOWN BY THE PUBLIC RECORDS (NOT A SURVEY MATTER).

23.- ANY EASEMENTS NOT DISCLOSED BY THE PUBLIC RECORDS AS TO MATTERS AFFECTING TITLE TO REAL PROPERTY, WHETHER OR NOT SAID EASEMENTS ARE VISIBLE AND APPARENT (NOT A SURVEY MATTER).

24.- MATTERS WHICH MAY BE DISCLOSED BY AN INSPECTION AND/OR BY A CORRECT ALTA/NSPS LAND TITLE SURVEY OF SAID LAND THAT IS SATISFACTORY TO THE COMPANY, AND/OR BY INQUIRY OF THE PARTIES IN POSSESSION THEREOF (NOT A SURVEY MATTER).

25.- MATTERS CONTAINED IN THAT CERTAIN DOCUMENT (NOT A SURVEY MATTER).

26.- A DEED OF TRUST (NOT A SURVEY MATTER).

LEGAL DESCRIPTION PER TR NO. 09197811

ALL THAT CERTAIN REAL PROPERTY SITUATED IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

THAT PORTION OF THE NORTHERLY 17.98 ACRES OF LOT 101 OF THE MCDONALD TRACT, IN THE CITY OF GARDENA, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 15 PAGES 21 AND 22, OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING NORTH OF A LINE PARALLEL WITH AND DISTANT 250 FEET NORTH, MEASURED AT RIGHT ANGLES FROM THE NORTH LINE OF THE SOUTH 15 ACRES OF SAID LOT AND LYING EAST OF THE EAST LINE OF THE WEST 5 ACRES OF SAID NORTHERLY 17.98 ACRES, CONVEYED TO CLYDE M. CHURCH, BY DEED RECORDED IN BOOK 2147 PAGE 45 OF DEEDS.

EXCEPTING THEREFROM THAT PORTION LYING EAST OF A LINE PARALLEL WITH AND DISTANT 15 FEET WESTERLY, MEASURED AT RIGHT ANGLES FROM THE WEST LINE OF THE 60 FOOT STRIP CONVEYED TO CALIFORNIA PACIFIC RAILWAY COMPANY, BY DEED RECORDED IN BOOK 1852 PAGE 182 OF DEEDS.

ALSO EXCEPT THEREFROM THE SOUTH 100 FEET OF THE WEST 400 FEET OF SAID LAND.

ALSO EXCEPT THEREFROM THAT PORTION OF SAID LAND, LYING NORTHERLY OF A LINE PARALLEL WITH AND DISTANT SOUTHERLY 55.00 FEET, MEASURED AT RIGHT ANGLES FROM THE CENTER LINE OF 174TH STREET, 60 FEET WIDE, SHOWN ON MAP OF SAID TRACT AS AN UNNAMED STREET BETWEEN LOTS 100 AND 101; AND BOUNDED ON THE WEST BY THE EAST LINE OF THE WEST 5 ACRES OF SAID NORTHERLY 17.98 ACRES, CONVEYED TO CLYDE M. CHURCH, BY DEED RECORDED IN BOOK 2147 PAGE 45, OFFICIAL RECORDS, AND BOUNDED ON THE EAST BY A LINE PARALLEL WITH AND DISTANT WESTERLY 15.00 FEET, MEASURED AT RIGHT ANGLES FROM THE WEST LINE OF THE 60 FOOT STRIP OF LAND CONVEYED TO CALIFORNIA PACIFIC RAILROAD COMPANY, BY DEED RECORDED IN BOOK 1852 PAGE 182 OF DEEDS, AS GRANTED TO THE STATE OF CALIFORNIA, BY DEED RECORDED NOVEMBER 13, 1953 IN BOOK 43161 PAGE 136, OFFICIAL RECORDS.

ALSO EXCEPT FROM THE REMAINDER OF SAID LAND THE WESTERLY 362.49 FEET.

ALSO EXCEPT THE INTEREST IN THE OIL, SAS, PETROLEUM AND HYDROCARBON SUBSTANCES IN AND UNDER SAID LAND EXCEPTED IN THE FOLLOWING DEEDS:

DEED FROM DENYS G. GODDARD, SINGLE TO WENDELL P. HOPKINS AND GOLDA HOPKINS, HIS WIFE, AS JOINT TENANTS, RECORDED JUNE 9, 1947 IN BOOK 24676 PAGE 272, OFFICIAL RECORDS, WHICH EXCEPTS ONE-HALF; DEED FROM WENDELL P. HOPKINS AND GOLDA HOPKINS, HUSBAND AND WIFE, TO S AND L MANUFACTURING COMPANY, RECORDED APRIL 21, 1948 IN BOOK 26984 PAGE 281, OFFICIAL RECORDS, RECITING EXCEPTION OF ONE-HALF.

ASSESSORS PARCEL NUMBER : 6106-036-034

SCHEDULE B ITEMS PER TR NO. 09197811

BASED UPON TITLE REPORT NO. 09197811-919-EG1-EGL-4, DATED JANUARY 26, 2022 AS PREPARED BY COMMONWEALTH LAND TITLE INSURANCE COMPANY.

A.- TAXES (NOT A SURVEY MATTER).

B.- TAXES (NOT A SURVEY MATTER).

C.- TAXES (NOT A SURVEY MATTER).

D.- TAXES (NOT A SURVEY MATTER).

1.- WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT DISCLOSED BY THE PUBLIC RECORDS (NOT A SURVEY MATTER).

(2) EASEMENT(S) FOR PUBLIC HIGHWAY SLOPES, DATED NOVEMBER 13, 1953, AS INSTRUMENT RECORDS IN BOOK 43161, PAGE 136 OF OFFICIAL RECORDS (PLOTTED HEREON).

3.- A LIEN (NOT A SURVEY MATTER).

4.- ANY INVALIDITY OR DEFECT IN THE TITLE OF THE VESTEES IN THE EVENT THAT THE TRUST REFERRED TO HEREIN IS INVALID OR FAILS TO GRANT SUFFICIENT POWERS TO THE TRUSTEE(S) OR IN THE EVENT THERE IS A LACK OF COMPLIANCE WITH THE TERMS AND PROVISIONS OF THE TRUST INSTRUMENT (NOT A SURVEY MATTER).

5.- ANY RIGHTS OF THE PARTIES IN POSSESSION OF A PORTION OF, OR ALL OF, SAID LAND, WHICH RIGHTS ARE NOT DISCLOSED BY THE PUBLIC RECORDS (NOT A SURVEY MATTER).

6.- PLEASE BE ADVISED THAT OUR SEARCH DID NOT DISCLOSE ANY OPEN DEEDS OF TRUST OF RECORD. IF YOU SHOULD HAVE KNOWLEDGE OF ANY OUTSTANDING OBLIGATION, PLEASE CONTACT THE TITLE DEPARTMENT IMMEDIATELY FOR FURTHER REVIEW PRIOR TO CLOSING(NOT A SURVEY MATTER).

LEGAL DESCRIPTION PER TR NO. CCH12109327NT

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF GARDENA, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL 1:

THE EAST 100 FEET OF THE SOUTH 100 FEET OF THE WEST 400 FEET OF THAT PORTION OF THE NORTH 17.98 ACRES OF LOT 101 OF THE MCDONALD TRACT IN THE COUNTY OF LOS ANGELES, AS PER MAP RECORDED IN BOOK 15, PAGES 21 AND 22 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING EASTERLY OF THE EASTERLY LINE OF THE WEST 5 ACRES OF SAID NORTH 17.98 ACRES, AND LYING NORTHERLY OF A LINE PARALLEL WITH AND DISTANT NORTHERLY 250 FEET, MEASURED AT RIGHT ANGLES, FROM THE NORTH LINE OF THE SOUTH 15 ACRES OF SAID LOT.

PARCEL 1A:

AN EASEMENT FOR INGRESS AND EGRESS TO BE USED IN COMMON WITH OTHERS OVER THAT PORTION OF THE LAND DESCRIBED IN DEED RECORDED IN BOOK 24676, PAGE 272 OF OFFICIAL RECORDS, INCLUDED WITHIN A STRIP OF SAID LAND, 15 FEET WIDE, THE WESTERLY LINE OF SAID 15 FOOT STRIP BEING THE EASTERLY LINE OF THE LAND DESCRIBED IN DEED RECORDED IN BOOK 2147, PAGE 45 OF DEEDS.

PARCEL 2:

THE SOUTH 100 FEET OF THE EAST 100 FEET OF THE WEST 200 FEET OF THAT PORTION OF THE NORTHERLY 17.98 ACRES OF LOT 101 OF THE MCDONALD TRACT, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 15, PAGES 21 AND 22 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING NORTHERLY OF A LINE PARALLEL WITH AND DISTANT 250 FEET MEASURED AT RIGHT ANGLES FROM THE NORTH LINE OF THE SOUTH 15 ACRES OF SAID LOT, AND LYING EAST OF THE EAST LINE OF THE WEST 5 ACRES OF SAID NORTHERLY 17.98 ACRES OF SAID LOT CONVEYED TO CLYDE M. CHURCH BY DEED RECORDED IN BOOK 2147, PAGE 45, DEEDS.

PARCEL 2A:

AN EASEMENT FOR INGRESS AND EGRESS TO BE USED IN COMMON WITH OTHERS, OVER THAT PORTION OF SAID LOT INCLUDED WITHIN A STRIP OF LAND 15 FEET WIDE, EXTENDING FROM THE NORTHERLY LINE OF SAID LOT TO THE NORTHERLY LINE OF SAID SOUTH 100 FEET OF THE WEST 400 FEET. THE WESTERLY LINE OF SAID 15 FOOT STRIP BEING THE EAST LINE OF SAID LAND CONVEYED BY DEED RECORDED IN BOOK 2147, PAGE 45, OF DEEDS.

PARCEL 2B:

AN EASEMENT FOR INGRESS AND EGRESS TO BE USED IN COMMON WITH OTHERS, OVER THE NORTHERLY 15 FEET OF THE SOUTH 100 FEET OF THE WEST 100 FEET OF THAT PORTION OF THE NORTHERLY 17.98 ACRES OF LOT 101 OF THE MCDONALD TRACT, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 15, PAGES 21 AND 22 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING NORTH OF A LINE PARALLEL WITH AND DISTANT 250 FEET NORTH, MEASURED AT RIGHT ANGLES FROM THE NORTH LINE OF THE SOUTH 15 ACRES OF SAID LOT AND LYING EAST OF THE EAST LINE OF THE WEST 5 ACRES OF THE NORTHERLY 17.98 ACRES OF SAID LOT, CONVEYED TO CLYDE M. CHURCH, BY DEED RECORDED IN BOOK 2147, PAGE 45 OF DEEDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

ASSESSORS PARCEL NUMBERS: 6106-036-012, 6106-036-037

SCHEDULE B ITEMS PER TR NO. CCH12109327NT

BASED UPON TITLE REPORT NO. CCH12109327NT, DATED DECEMBER 20, 2021 AS PREPARED BY CHICAGO TITLE INSURANCE COMPANY .

1.- TAXES (NOT A SURVEY MATTER).

2.- TAXES (NOT A SURVEY MATTER).

3.- TAXES (NOT A SURVEY MATTER).

4.- ANY LIENS OR OTHER ASSESSMENTS, BONDS, OR SPECIAL DISTRICT LIENS (NOT A SURVEY MATTER).

5.- THE LIEN OF SUPPLEMENTAL OR ESCAPED ASSESSMENTS OF PROPERTY TAXES (NOT A SURVEY MATTER).

6.- WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT DISCLOSED BY THE PUBLIC RECORDS (NOT A SURVEY MATTER).

7.- EASEMENTS OR RIGHTS OF WAY FOR INGRESS AND EGRESS, PIPELINES, DRAINAGE AND/OR PUBLIC UTILITIES AND INCIDENTAL PURPOSES THERETO OVER, UNDER, ALONG AND ACROSS THE EASEMENT PARCEL(S) HEREIN DESCRIBED (NOT PLOTTABLE FROM RECORD).

[8] EASEMENT FOR INGRESS AND EGRESS AND INCIDENTAL PURPOSES RECORDED JUNE 19, 1949 RECORDING NO. 1949-880, BOOK 24676, PAGE 272 OF OFFICIAL RECORDS (PLOTTED HEREON).

9.- EASEMENT FOR INGRESS AND EGRESS AND INCIDENTAL PURPOSES RECORDED SEPTEMBER 2, 1955 RECORDING NO. 1955-2275 OF OFFICIAL RECORDS (NOT PLOTTABLE FROM RECORD).

[10] EASEMENT FOR INGRESS AND EGRESS RECORDED JUNE 20, 1969 RECORDING NO. 3232 AND 3233 OF OFFICIAL RECORDS (PLOTTED HEREON).

11.- A DEED OF TRUST (NOT A SURVEY MATTER).

LEGAL DESCRIPTION PER TR NO. 2676021739-48

THE LAND REFERRED TO IN THIS REPORT IS SITUATED IN THE COUNTY OF LOS ANGELES, CITY OF GARDENA, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL 1:

THE EAST 100 FEET OF THE WEST 300 FEET OF THE SOUTH 100 FEET OF THE NORTHERLY 17.98 ACRES OF LOT 101 OF THE MCDONALD TRACT, IN THE CITY OF GARDENA, COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 15 PAGES 21 AND 22 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING NORTHERLY OF A LINE PARALLEL WITH AND DISTANT 250 FEET MEASURED AT RIGHT ANGLES FROM THE NORTH LINE OF THE SOUTH 15 ACRES OF SAID LOT, AND LYING EAST OF THE EAST LINE OF THE WEST 5 ACRES OF THE NORTHERLY 17.98 ACRES OF SAID LOT, CONVEYED TO CLYDE M. CHURCH BY DEED RECORDED IN BOOK 2147 PAGE 45, OFFICIAL RECORDS.

PARCEL 2:

AN EASEMENT FOR INGRESS AND EGRESS TO BE USED IN COMMON WITH OTHERS, OVER THE WEST 15 FEET OF THAT PORTION OF THE NORTHERLY 17.98 ACRES OF LOT 101 OF THE MCDONALD TRACT, AS PER MAP RECORDED IN BOOK 15 PAGES 21 AND 22 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING NORTHERLY OF A LINE PARALLEL WITH AND DISTANT 250 FEET NORTH, MEASURED AT RIGHT ANGLES, FROM THE NORTH LINE OF THE SOUTH 15 ACRES OF SAID LOT, AND LYING EAST OF THE EAST LINE OF THE WEST 5 ACRES OF SAID NORTHERLY 17.98 ACRES, CONVEYED TO CLYDE M. CHURCH BY DEED RECORDED IN BOOK 2147 PAGE 45, OFFICIAL RECORDS.

ALSO EXCEPTING THEREFROM THE EAST 100 FEET OF THE WEST 400 FEET OF SAID LAND.

PARCEL 3:

AN EASEMENT FOR INGRESS AND EGRESS TO BE USED IN COMMON WITH OTHERS, OVER THE NORTHERLY 15 FEET OF THE SOUTH 100 FEET OF THE WEST 200 FEET OF THAT PORTION OF THE NORTHERLY 17.98 ACRES OF LOT 101 OF THE MCDONALD TRACT, AS PER MAP RECORDED IN BOOK 15 PAGES 21 AND 22 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING NORTHERLY OF A LINE PARALLEL WITH AND DISTANT 250 FEET NORTH, MEASURED AT RIGHT ANGLES FROM THE NORTH LINE OF THE SOUTH 15, ACRES OF SAID LOT AND LYING EAST OF THE EAST LINE OF THE WEST 5 ACRES OF THE NORTHERLY 17.98 ACRES OF SAID LOT, CONVEYED TO CLYDE M. CHURCH BY DEED RECORDED IN BOOK 2147 PAGE 45, OFFICIAL RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL 4:

AN EASEMENT FOR INGRESS AND EGRESS OVER THE NORTH 15 FEET OF THE EAST 100 FEET OF THE SOUTH 100 FEET OF THE WEST 400 FEET OF THAT PORTION OF THE NORTH 17.98 ACRES OF LOT 101 OF THE MCDONALD TRACT, AS PER MAP RECORDED IN BOOK 15 PAGES 21 AND 22 OF MISCELLANEOUS RECORDS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY, LYING EASTERLY OF THE EASTERLY LINE OF THE WEST 5 ACRES OF SAID NORTH 17.98 ACRES, AND LYING NORTHERLY OF A LINE PARALLEL WITH AND DISTANT NORTHERLY 250 FEET, MEASURED AT RIGHT ANGLES, FROM THE NORTH LINE OF THE SOUTH 15 ACRES OF SAID LOT.

ASSESSORS PARCEL NUMBERS: 6106-036-036

SCHEDULE B ITEMS PER TR NO. 2676021739-48

BASED UPON TITLE REPORT NO. 2676021739-48, DATED NOVEMBER 12, 2021 AS PREPARED BY OLD REPUBLIC TITLE COMPANY .

1.- TAXES (NOT A SURVEY MATTER).

2.- TAXES (NOT A SURVEY MATTER).

(3) EASEMENT FOR INGRESS AND EGRESS RECORDED JUNE 19, 1947 IN BOOK 24676 PAGE 272 AS INSTRUMENT NO. 880 OF OFFICIAL RECORDS (PLOTTED HEREON).

4.- EASEMENT FOR INGRESS AND EGRESS RECORDED SEPTEMBER 2, 1955 INSTRUMENT 2275 OF OFFICIAL RECORDS (NOT PLOTTABLE FROM RECORD).

(5) EASEMENT FOR INGRESS AND EGRESS RECORDED JUNE 20, 1969 INSTRUMENT NO. 3232 AND 3233 OF OFFICIAL RECORDS (PLOTTED HEREON).

(6) EASEMENT FOR INGRESS AND EGRESS RECORDED JUNE 2, 1972 INSTRUMENT NO. 1241 OF OFFICIAL RECORDS (PLOTTED HEREON).

7.- CERTIFICATE OF LIEN (NOT A SURVEY MATTER).

8.- WE FIND NO OPEN DEEDS OF TRUST. A WRITTEN STATEMENT MUST BE PROVIDED BY THE CURRENT OWNER(S) ATTESTING TO WHETHER ANY OUTSTANDING DEEDS OF TRUST EXIST (NOT A SURVEY MATTER).

9.- WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT SHOWN BY THE PUBLIC RECORDS (NOT A SURVEY MATTER).

10.- ANY UNRECORDED AND SUBSISTING LEASES

11.- THE REQUIREMENT THAT THIS COMPANY BE PROVIDED WITH AN OPPORTUNITY TO INSPECT THE LAND (THE COMPANY RESERVES THE RIGHT TO MAKE ADDITIONAL EXCEPTIONS AND/OR REQUIREMENTS UPON COMPLETION OF ITS INSPECTION) (NOT A SURVEY MATTER).

12.- TERMS AND CONDITIONS CONTAINED IN THE NEWMAN FAMILY TRUST, DATED FEBRUARY 4, 2002, AS DISCLOSED BY INDIVIDUAL QUITCLAIM DEED, RECORDED APRIL 16, 2002 OF OFFICIAL RECORDS, AS INSTRUMENT NO. 02-0888848 (NOT A SURVEY MATTER).

13.- THE EFFECT OF INSTRUMENTS, PROCEEDINGS, LIENS, DECREES OR OTHER MATTERS WHICH DO NOT SPECIFICALLY DESCRIBE SAID LAND BUT WHICH, IF ANY DO EXIST, MAY AFFECT THE TITLE OR IMPOSE LIENS OR ENCUMBRANCES THEREON. THE NAME SEARCH NECESSARY TO ASCERTAIN THE EXISTENCE OF SUCH MATTERS HAS NOT BEEN COMPLETED AND, IN ORDER TO DO SO, WE REQUIRE A SIGNED CONFIDENTIAL STATEMENT OF INFORMATION FROM OR ON BEHALF OF MARION COLLIN NEWMAN AND KIYONO SHITO NEWMAN (NOT A SURVEY MATTER).

VICINITY MAP

POSSIBLE ENCROACHMENT NOTES

THIS IS A LISTING OF OBSERVED IMPROVEMENTS THAT CROSS PROPERTY LINES. STATEMENT OF OWNERSHIP OR POSSESSION IS NOT THE INTENT OF THIS LISTING.

1 COLUMN CORNER OVERLAPS THE PROPERTY LINE AS SHOWN

2 FENCE OVERLAPS THE PROPERTY LINE AS SHOWN

ITEMS CORRESPONDING TO TABLE A ITEMS

ITEM 14
THE NEAREST INTERSECTING STREET TO THE PROPERTY IS ARTESIA BOULEVARD AND NORMANDIE AVENUE AND IT IS ±107 FEET, AS SHOWN HEREON.

ITEM 16
NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELD WORK.

ITEM 17
NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELD WORK.

SURVEYOR'S NOTES

- THE UTILITIES SHOWN HEREON ARE BASED ON OBSERVED EVIDENCE ONLY. THIS SURVEY WOULD NOT SHOW UTILITIES COVERED BY CARS/TRUCKS OR RECENTLY PAVED ASPHALT/CONCRETE OR OVERGROWN BRUSH, TREES AND SHRUBS.
- UNLESS THIS PLAN HAS THE SEAL AND SIGNATURE OF THE SURVEYOR AND/OR ENGINEER RESPONSIBLE FOR ITS PREPARATION, THIS IS NOT AN AUTHENTIC COPY OF THE ORIGINAL SURVEY AND SHALL NOT BE DEEMED RELIABLE.
- ( ) INDICATES RECORD DATA PER M.B. 1383/93-98

FLOOD NOTE: BY GRAPHIC PLOTTING ONLY, THIS PROPERTY IS IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP, PANEL NO. 06037C1935F, PANEL DATED 9/26/2008. THIS PROPERTY IS NOT LOCATED IN AN AREA WHERE FLOOD HAZARDS EXIST AS DETERMINED BY FEMA. BY TELEPHONE CALL TO THE NATIONAL FLOOD INSURANCE PROGRAM (800-638-6620) WE HAVE LEARNED THIS COMMUNITY DOES CURRENTLY PARTICIPATE IN THE PROGRAM. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS DETERMINATION OR APPLY FOR A VARIANCE FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

SURVEYOR'S CERTIFICATE

TO 1450 ARTESIA ACQUISITION, LLC; AND COMMONWEALTH LAND TITLE COMPANY; CHICAGO TITLE INSURANCE COMPANY; AND OLD REPUBLIC:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(a), 7(a), 7(b)(1), 7(c), 8, 9, 13, 14, 16, 17, 18, 19 AND 20 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON FEBRUARY 11, 2022.

DATE OF PLAT OR MAP: AUGUST 13, 2022

REVISIONS			
NO.	DATE	REVISIONS	BY
1	08/05/21	SUBMITTAL	RM/CE
2	02/17/22	NEW TITLE REPORTS	HP
3	08/13/22	COMMENTS	RG

UTILITY STATEMENT

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PREPARED FOR

KIMLEY-HORN
4637 CHABOT DRIVE, SUITE 300
PLEASANTON, CA 94588

BASIS OF BEARINGS

THE BEARINGS SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 5, (2017.50) IN ACCORDANCE TO THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID BEARINGS ARE DETERMINED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING CALIFORNIA SPATIAL REFERENCE NETWORK CONTINUOUS OPERATING REFERENCE STATIONS (C.O.R.S.):

C.S.R.C. TORP:
NORTHING = 1748960.84' EASTING = 6461221.83'

C.S.R.C. TRAK:
NORTHING = 1683396.23' EASTING = 6621521.02'

THE COMBINATION FACTOR FOR THIS PROJECT WAS APPLIED AT THE FOLLOWING POINT:
NORTHING = 1775631.60' EASTING = 6469389.65'

MAPPING ANGLE = -0°10'23.77" SCALE FACTOR = 0.99995678

BENCHMARK

ELEVATIONS SHOWN HEREON ARE BASED UPON CITY OF LOS ANGELES BENCHMARK NO. 21-02469, ELEVATION 24.50 FEET (NAVD 88).

DESCRIPTION:
SPBM "STMPD 21-02469 1984"; 3.8FT E/O E CURB NORMANDIE AVE; 33FT S/O BCR S/O ARTESIA BLVD; NE COR CB.

SITE INFORMATION

SITE ADDRESS: 1440, 1450, 1452, 1462 W. ARTESIA BOULEVARD GARDENA, CA 90248

PROPERTY AREA: 6.525 AC. OR 284,235 SQ. FT.

TOTAL GROUND FLOOR AREA OF BUILDINGS: 20,166 SQ. FT.

NO STRIPED PARKING STALLS ON SUBJECT PROPERTY

ASSESSOR'S PARCEL NOS.: 6106-036-012; 6106-036-034; 6106-036-035; 6106-036-036 & 6106-036-037

SURVEYOR OF RECORD

FIELD COMPLETION DATE: JULY 1, 2021.

CALVADA SURVEYING, INC.
411 Jenks Cir., Suite 205, Corona, CA 92880
Phone: 951-280-9960 Fax: 951-280-9746
Toll Free: 800-CALVADA www.calvada.com

EST. 1989 JOB NO. 21424

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

11440, 1450,1452, 1462 W. ARTESIA BOULEVARD, GARDENA, CA 90248

MONUMENT NOTES

MON.#	DESCRIPTION
M2	FD PK NAIL & WASHER STAMPED "LS 5411", PER PWFB 019-471
M1206	FD SPIKE & WASHER STAMPED "LS 8639", PER M.B. 1383/93-98
M1277	FD NAIL & TAG STAMPED "LS 8639", PER M.B. 1383/93-98
M10001	FD HEX BOLT W/PUNCHED, DN. 1.0' IN WELL MONUMENT, PER M.B. 1383/93-98
M10003	FD PK NAIL & WASHER STAMPED "LS 5411", PER PWFB 019-471
M10033	FD 3 1/2" PUNCHED BRASS DISK, DN. 1.25' IN WELL MONUMENT, PER M.B. 1383/93-98
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M11000	FD CONCRETE NAIL, PER PARCEL MAP NO. 467, P.M.B. 31/18

LEGEND

- ASPHALT PAVEMENT
- BUILDING HEIGHT TAKEN AT THIS LOCATION
- CONCRETE PAVEMENT
- CONTROL POINT
- DECORATIVE BRICK
- FIRE HYDRANT
- FLOW DIRECTION
- FOUND MONUMENT AS NOTED
- GAS VALVE
- GATE
- GUARD POST
- GUY WIRE
- LIGHT STANDARD
- LIGHT STANDARD
- PALM TREE
- POWER POLE
- POWER POLE W/TRANSFORMER
- SEWER MANHOLE
- SIGN
- STAIRS SHOWING DOWNWARD DIRECTION
- STREET LIGHT
- TRAFFIC LIGHT
- TREE (TYPICAL)
- UTILITY POLE
- WATER FAUCET
- WATER VALVE
- APN ASSESSOR'S PARCEL NUMBER
- CATV CABLE T.V. VAULT
- CB CATCH BASIN
- ℄ CENTERLINE
- # DIAMETER OF EXISTING TREE
- DI DRAIN INLET
- EC ELECTRIC CABINET
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- EP ELECTRIC PANEL
- EPB ELECTRIC PULL BOX
- EV ELECTRIC VAULT
- FS FINISH SURFACE
- FL FLOW LINE
- HCR HANDICAP RAMP
- NG NATURAL GROUND
- PL PROPERTY LINE
- R/W RIGHT OF WAY
- TPB TELCO PULL BOX
- TV TELCO VAULT
- TC TOP OF CURB
- TOP TOP OF STRUCTURE
- TW TOP OF WALL
- TR TRANSFORMER
- WM WATER METER
- BLOCK WALL
- CANOPY
- CENTERLINE
- CHAIN LINK FENCE
- CONCRETE/RETAINING WALL
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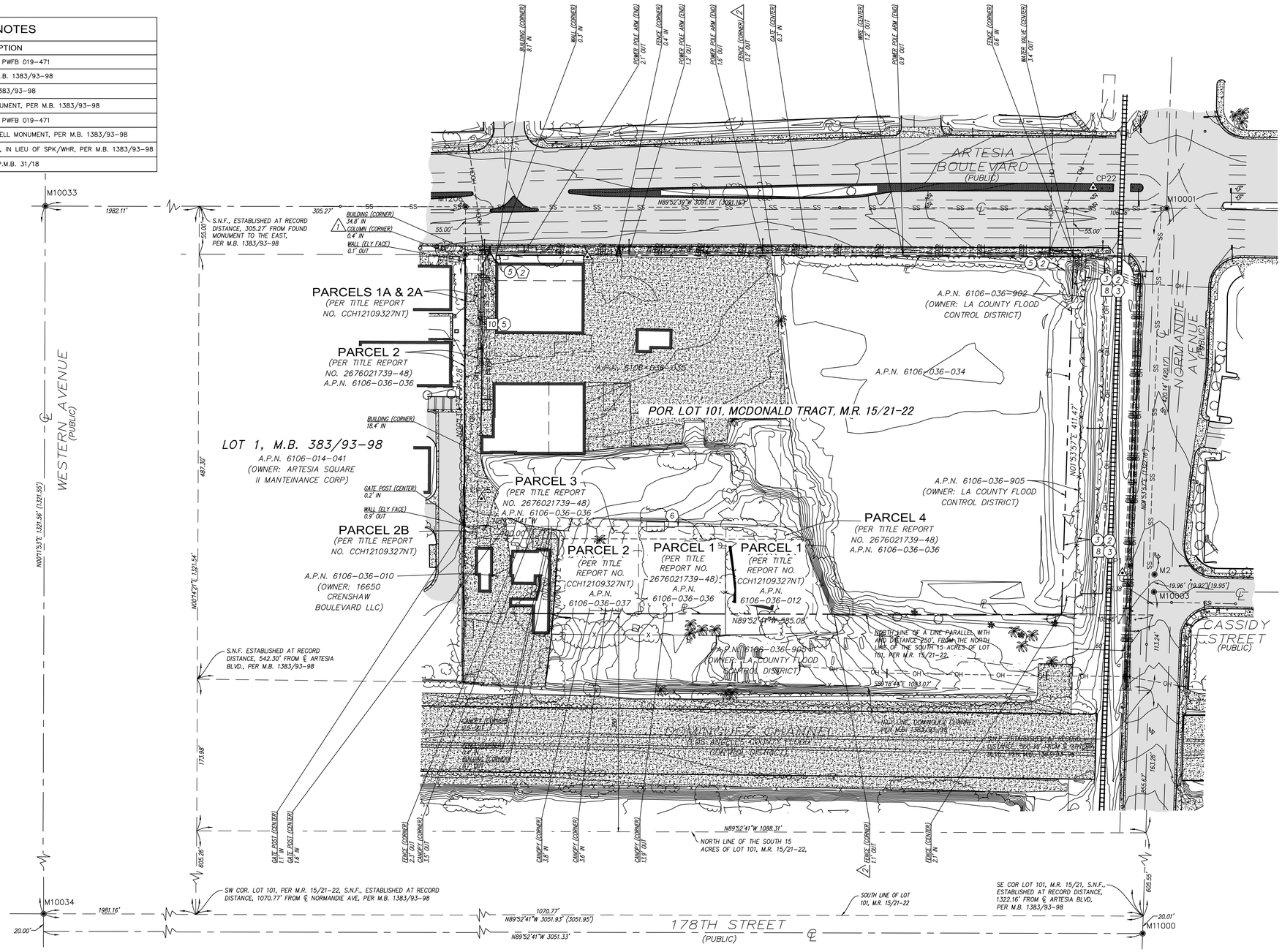
- OVERHEAD LINE
- PROPERTY LINE
- RIGHT-OF-WAY
- SANITARY SEWER LINE
- WATER LINE
- WOOD FENCE
- WROUGHT IRON FENCE



VICINITY MAP

GRAPHIC SCALE
60 0 30 60
FEET

CONTROL POINTS

CP#	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP1	1775839.43'	6470860.46'	25.87'	SET 60DN
CP21	1776201.69'	6470246.99'	22.08'	SET MN/SH
CP22	1776281.46'	6470826.81'	25.33'	SET S/X
CP25	1775924.38'	6470125.45'	25.33'	SET MAGN

REVISIONS

NO.	DATE	REVISIONS	BY
1	08/05/21	SUBMITTAL	RM/CE
2	02/17/22	NEW TITLE REPORTS	HP
3	08/13/22	COMMENTS	RG

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SURVEYOR OF RECORD

FIELD COMPLETION DATE: JULY 1, 2021.

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EST. 1989 JOB NO. 21424

A.L.T.A./N.S.P.S. LAND TITLE SURVEY

11440, 1450,1452, 1462 W. ARTESIA BOULEVARD, GARDENA, CA 90248

LEGEND

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- BUILDING HEIGHT TAKEN AT THIS LOCATION
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- CONTROL POINT
- DECORATIVE BRICK
- FIRE HYDRANT
- FLOW DIRECTION
- FOUND MONUMENT AS NOTED
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- GATE
- GUARD POST
- GUY WIRE
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- LIGHT STANDARD
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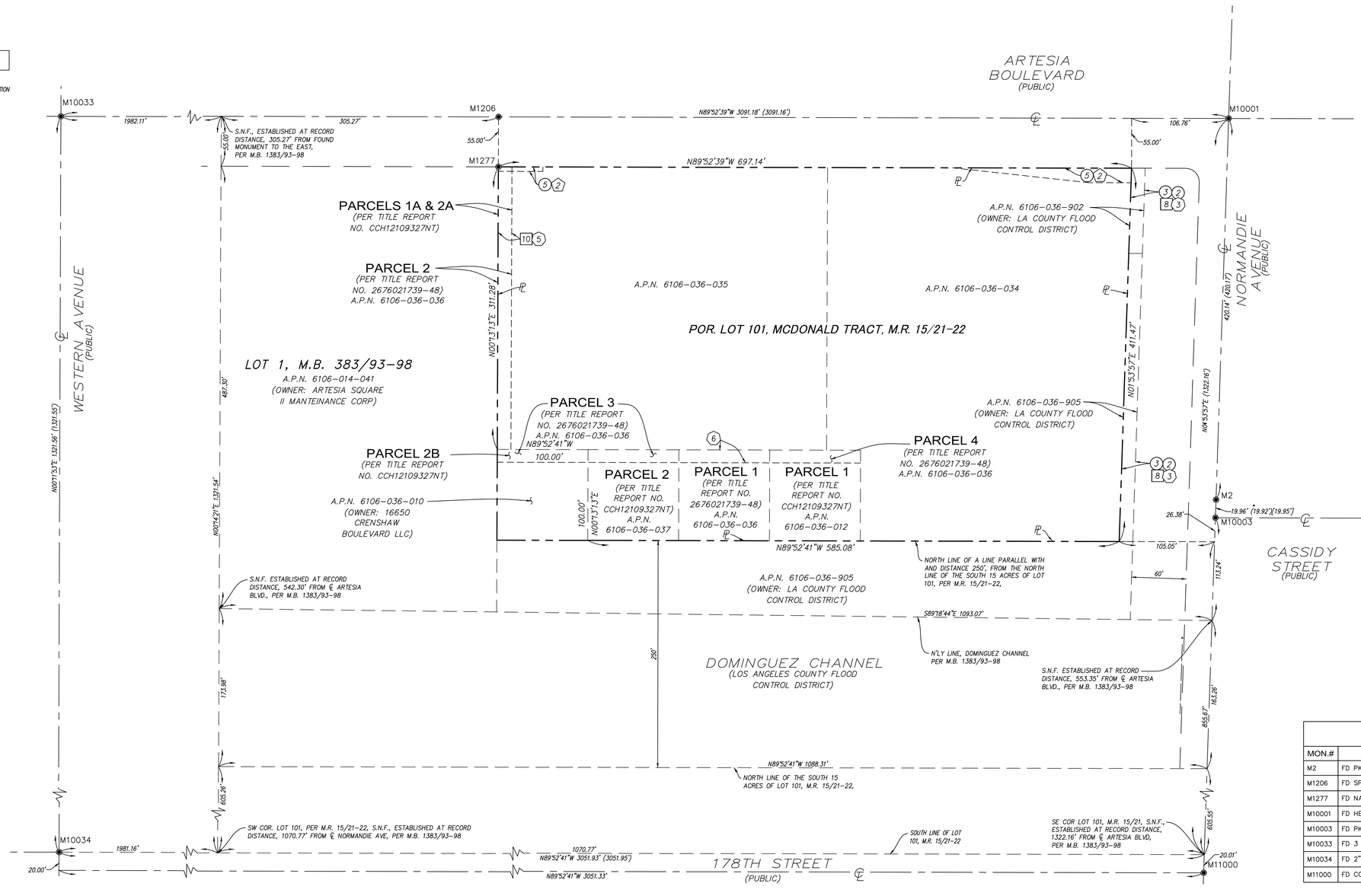
- W — WATER LINE
- WOOD FENCE
- WROUGHT IRON FENCE



GRAPHIC SCALE

60 0 30 60

FEET

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SURVEYOR OF RECORD

FIELD COMPLETION DATE: JULY 1, 2021.

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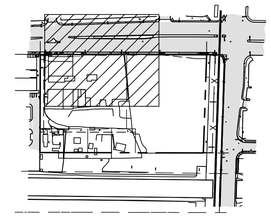
EST. 1989 JOB NO. 21424

TOPOGRAPHIC SURVEY

1440, 1450,1452, 1462 W. ARTESIA BOULEVARD, GARDENA, CA 90248

SURVEY INDEX MAP



LEGEND

	ASPHALT PAVEMENT
22.24	BUILDING HEIGHT TAKEN AT THIS LOCATION
CONCRETE	CONCRETE PAVEMENT
	CONTROL POINT
	DECORATIVE BRICK
	FIRE HYDRANT
	FLOW DIRECTION
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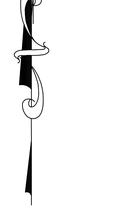
	CANOPY
	CENTERLINE
	CHAIN LINK FENCE
	CONCRETE/RETAINING WALL
	EASEMENT LINE
E	ELECTRIC LINE
	EDGE OF PAVEMENT
	FLOW LINE
	INTERIOR LOT LINE
	INTERIOR LOT LINE
OH	OVERHEAD LINE
	PROPERTY LINE
	RIGHT-OF-WAY
SS	SANITARY SEWER LINE
W	WATER LINE
	WOOD FENCE
	WROUGHT IRON FENCE



GRAPHIC SCALE

20 0 10 20

FEET

REVISIONS

NO.	DATE	REVISIONS	BY
1	08/05/21	SUBMITTAL	RM/CE
2	02/17/22	NEW TITLE REPORTS	HP
3	08/13/22	COMMENTS	RG

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Underground Service Alert

DIAL BEFORE YOU DIG

Call: TOLL FREE 1-800 227-2600

TWO WORKING DAYS BEFORE YOU DIG

PREPARED FOR

KIMLEY-HORN

4637 CHABOT DRIVE, SUITE 300
PLEASANTON, CA 94588

BASIS OF BEARINGS

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SITE INFORMATION

SITE ADDRESS: 1440, 1450, 1452, 1462 W. ARTESIA BOULEVARD GARDENA, CA 90248

PROPERTY AREA: 6.525 AC. OR 284,235 SQ. FT.

TOTAL GROUND FLOOR AREA OF BUILDINGS: 20,166 SQ. FT.

NO STRIPED PARKING STALLS ON SUBJECT PROPERTY

ASSESSOR'S PARCEL NOS.: 6106-036-012; 6106-036-034; 6106-036-035; 6106-036-036 & 6106-036-037

SURVEYOR OF RECORD

FIELD COMPLETION DATE: JULY 1, 2021.

CALVADA SURVEYING, INC.
411 Jenks Cir., Suite 205, Corona, CA 92880
Phone: 951-280-9960 Fax: 951-280-9746
Toll Free: 800-CALVADA www.calvada.com

EST. 1989 JOB NO. 21424

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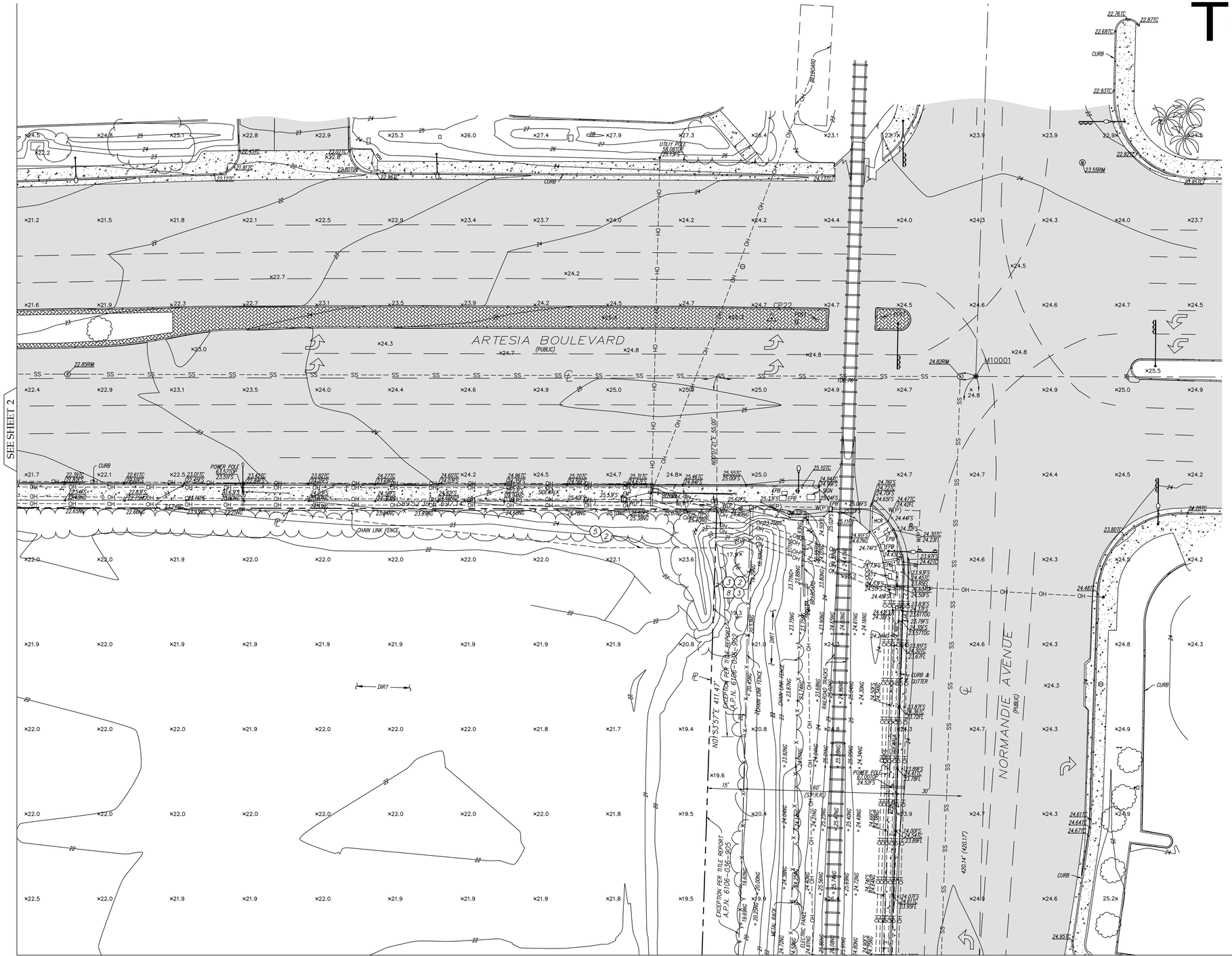
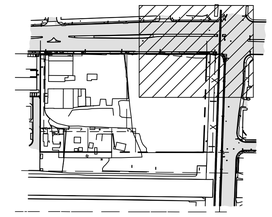
1440, 1450,1452, 1462 W. ARTESIA BOULEVARD, GARDENA, CA 90248



SURVEY INDEX MAP



LEGEND

- ASPHALT PAVEMENT
- BUILDING HEIGHT TAKEN AT THIS LOCATION
- CONCRETE PAVEMENT
- CONTROL POINT
- DECORATIVE BRICK
- FIRE HYDRANT
- FLOW DIRECTION
- FOUND MONUMENT AS NOTED
- GAS VALVE
- GATE
- GUARD POST
- GUY WIRE
- LIGHT STANDARD
- LIGHT STANDARD
- PALM TREE
- POWER POLE
- POWER POLE W/TRANSFORMER
- SEWER MANHOLE
- SIGN
- STAIRS SHOWING DOWNWARD DIRECTION
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- TRAFFIC LIGHT
- TREE (TYPICAL)
- UTILITY POLE
- WATER FAUCET
- WATER VALVE
- APN ASSESSOR'S PARCEL NUMBER
- CATV CABLE T.V. VAULT
- CB CATCH BASIN
- ℄ CENTERLINE
- # DIAMETER OF EXISTING TREE
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- FS FINISH SURFACE
- FL FLOW LINE
- HCR HANDICAP RAMP
- NG NATURAL GROUND
- PL PROPERTY LINE
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- TPB TELCO PULL BOX
- TV TELCO VAULT
- TC TOP OF CURB
- TOP TOP OF STRUCTURE
- TW TOP OF WALL
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- WM WATER METER
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GRAPHIC SCALE
20 0 10 20
FEET

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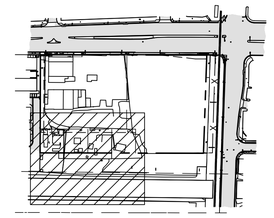
SURVEY INDEX MAP



LEGEND

	ASPHALT PAVEMENT
×24.8	BUILDING HEIGHT TAKEN AT THIS LOCATION
	CONCRETE PAVEMENT
	CONTROL POINT
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	FIRE HYDRANT
	FLOW DIRECTION
	FOUND MONUMENT AS NOTED
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20 0 10 20
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EST. 1989 JOB NO. 21424

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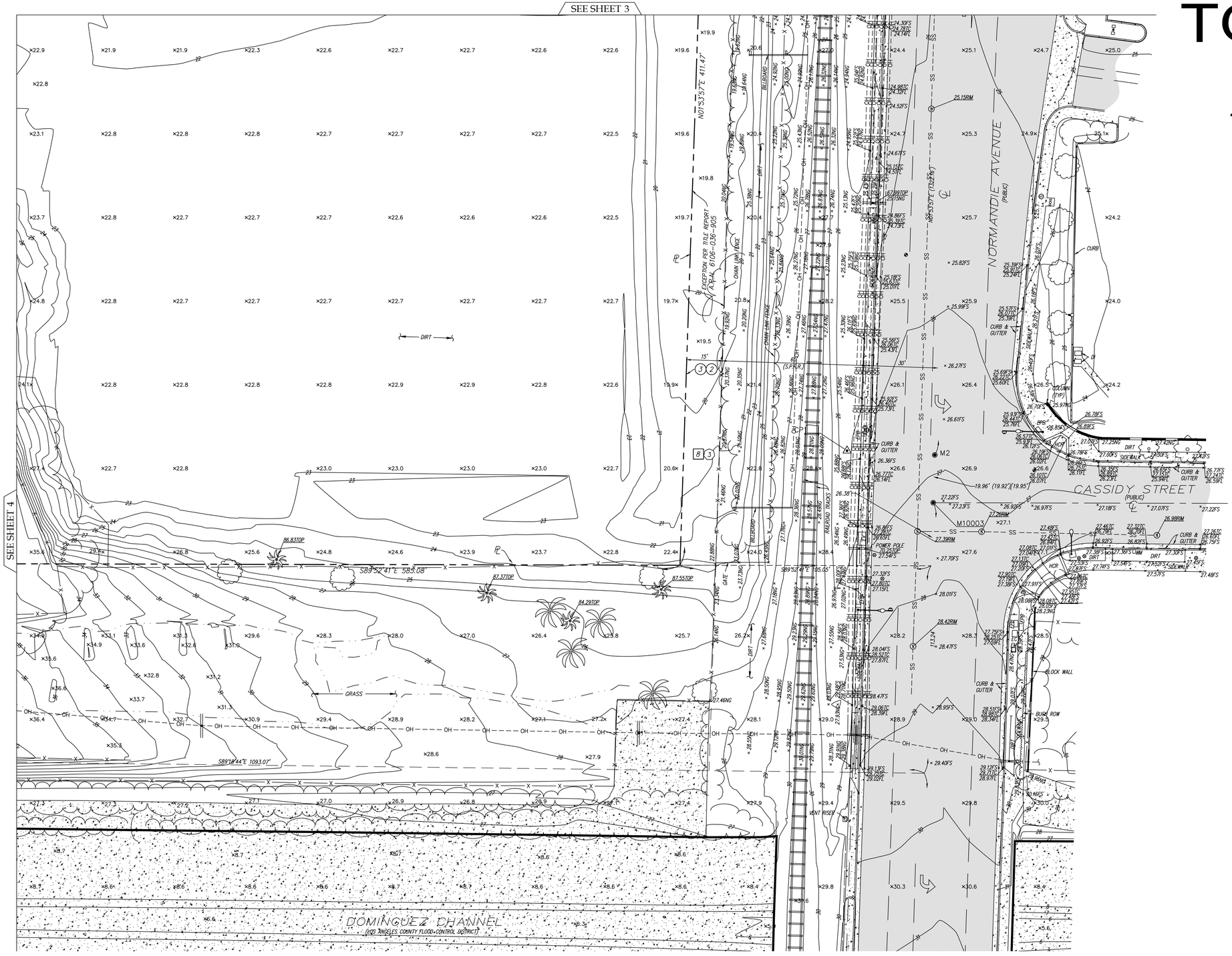
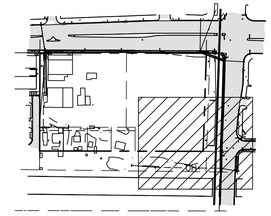
1440, 1450,1452, 1462 W. ARTESIA BOULEVARD, GARDENA, CA 90248

SEE SHEET 3

SEE SHEET 4



SURVEY INDEX MAP



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ARTESIA BOULEVARD

EXISTING PROPERTY LINE

PROPOSED INDUSTRIAL/ OFFICE/ SELF-STORAGE FACILITY

EXISTING PROPERTY LINE TO BE REMOVED (TYP.)

EXISTING PROPERTY LINE

EXISTING LADPW PROPERTY

LEGEND

- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED 6' SECURITY FENCE
- GRADE BREAK
- RIDGE LINE
- HANDRAILS
- APPROXIMATE LIMIT OF REMEDIATION
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- WATER METER
- BACKFLOW PREVENTER
- TRANSFORMER
- PROPOSED LANDSCAPING
- PROPOSED STANDARD DUTY CONCRETE
- PROPOSED HEAVY DUTY CONCRETE
- PROPOSED ASPHALT CONCRETE
- PROPOSED PARKING COUNT
- PROPOSED SITE LIGHT
- PROPOSED MANHOLE
- PROPOSED INLET

SITE NOTES

1. PROPOSED CURB.
2. PROPOSED CONCRETE SIDEWALK.
3. PROPOSED ASPHALT CONCRETE.
4. PROPOSED 8" CMU RETAINING WALL.
5. PROPOSED STANDARD 90° PARKING STALL.
9. PROPOSED TRASH ENCLOSURE.
11. PROPOSED 6' SECURITY FENCE.
12. PROPOSED EV CHARGING STALL.
13. PROPOSED SITE LIGHT.
16. PROPOSED SECURITY GATE WITH EMERGENCY VEHICLE ONLY KNOX BOX.
17. PROPOSED ACCESSIBLE PARKING STRIPING.
18. PROPOSED ACCESSIBLE RAMP.
19. PROPOSED TRANSFORMER.
20. INSTALL CITY STANDARD DRIVEWAY AND CURB RAMPS PER CITY STANDARD DETAIL ST-1.
21. PROPOSED RAISED ENTRY MEDIAN.
22. PROPOSED VAPOR TREATMENT FACILITY PAD (BY OTHERS).
23. PROPOSED RAMP WITH HANDRAILS.
24. PROPOSED CURB AND GUTTER
25. PROPOSED VALLEY GUTTER.
26. GARDEN WALL PER REMEDIATION PLAN (BY OTHERS).
27. PROPOSED SIGN.

NOTES

1. ALL CURBS ARE 2' IN RADIUS UNLESS DIMENSIONED OTHERWISE.
2. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

roZEN

InSite

123456

1450 W ARTESIA BIVD
ENTITLEMENT
DOCUMENTS

No.	Description	Date
	Revisions	

NOT FOR CONSTRUCTION

PRELIMINARY CIVIL SITE PLAN

Kimley»Horn

C100

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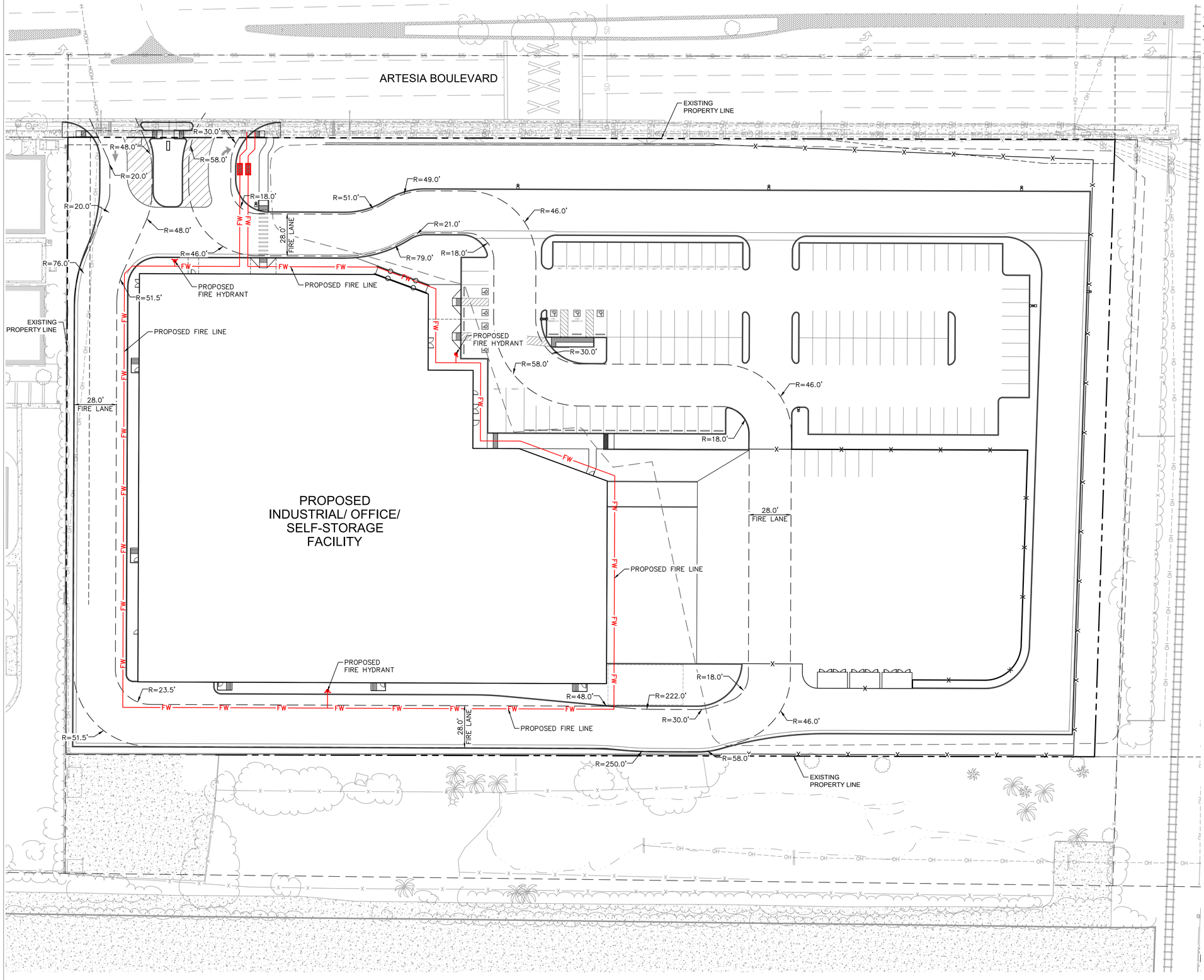

LEGEND

- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED 6' SECURITY FENCE
- APPROXIMATE LIMIT OF REMEDIATION

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

roZEN

InSite

123456

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NOT FOR CONSTRUCTION

FIRE PLAN

Kimley»Horn

C200

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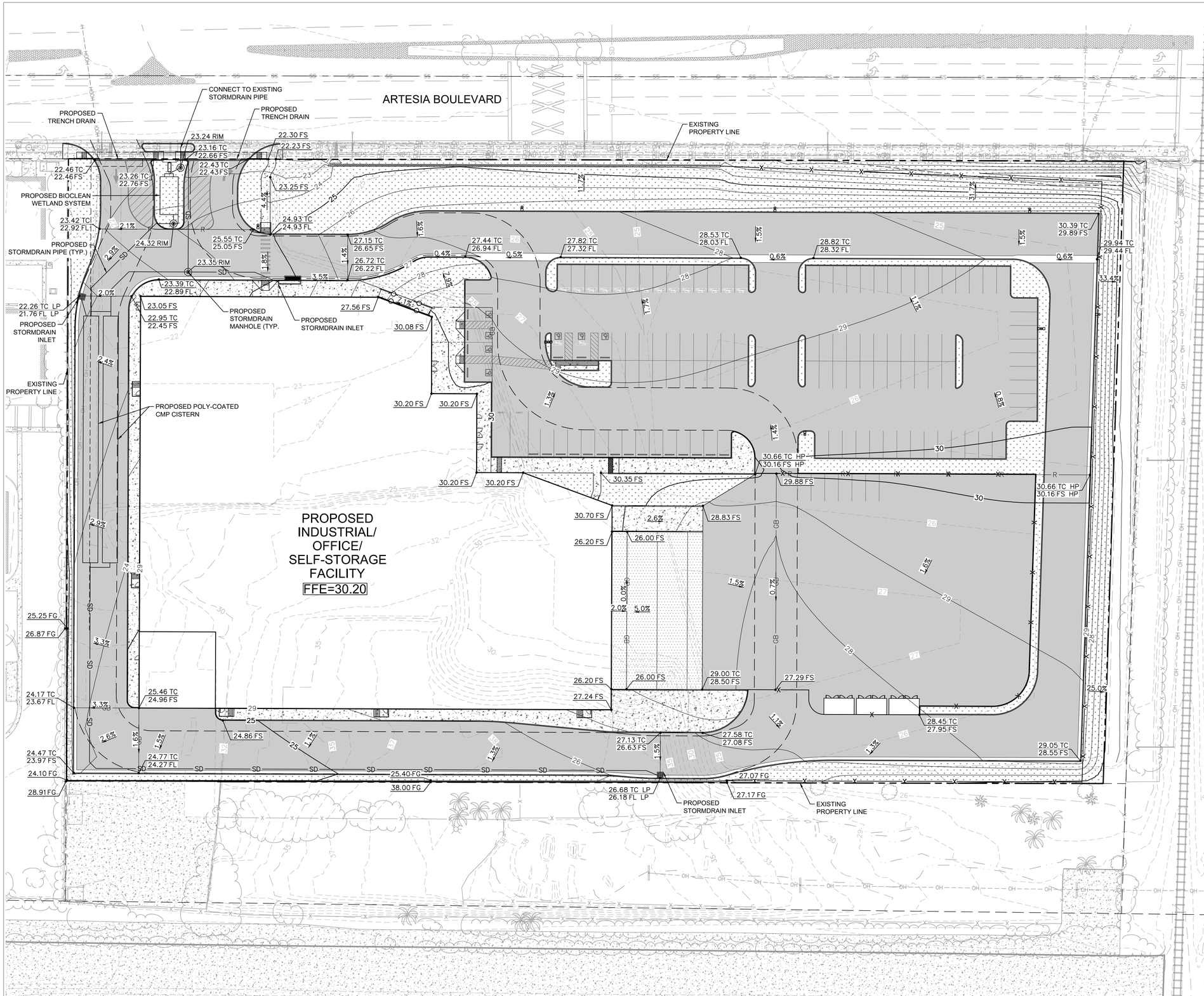
2/12/2024 11:34:50 AM



LEGEND

- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- PROPOSED 6' SECURITY FENCE
- GRADE BREAK
- RIDGE LINE
- HANDRAILS
- APPROXIMATE LIMIT OF REMEDIATION
- PROPOSED LANDSCAPING
- PROPOSED STANDARD DUTY CONCRETE
- PROPOSED HEAVY DUTY CONCRETE
- PROPOSED ASPHALT CONCRETE
- PROPOSED PARKING COUNT
- PROPOSED SITE LIGHT
- PROPOSED MANHOLE
- PROPOSED INLET
- XX.XX TC / XX.XX FS — PROPOSED SPOT GRADE
- X.XX% — PROPOSED SLOPE

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

roZEN

InSite

123456

1450 W ARTESIA BIVD ENTITLEMENT DOCUMENTS

No.	Description	Date
	Revisions	

NOT FOR CONSTRUCTION

PRELIMINARY GRADING PLAN

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C300

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2/12/2024 11:35:00 AM

ARTESIA BOULEVARD

EXISTING PROPERTY LINE

PROPOSED ELECTRICAL EQUIPMENT (TYP.)

EXISTING PROPERTY LINE

PROPOSED INDUSTRIAL/OFFICE/ SELF-STORAGE FACILITY

36" RAISED PLANTER, TYP.

PROPOSED LOADING DOCKS

PROPOSED TRASH ENCLOSURE (TYP.)

EXISTING PROPERTY LINE

EXISTING LADPW PROPERTY

EXISTING RIGHT OF WAY

PLANT CONCEPT LEGEND

SYMBOL	CODE
TREES	
	LW
	PC
SHRUBS	
	AA
	AP
	AB
	BR
	CL
	LH
	MC
	MA
	MD
	OL
	PF
	PR
	PA
	SS
	WF
GROUND COVERS	
	RH
	TS

NOTES

1. ALL TREES WITHIN 6' OF HARDSCAPE SHALL BE IN A SHAWTOWN LINEAR (WRAP AROUND NOT ALLOWED) ROOT BARRIER 24" HIGH LINEAR ROOT BARRIER SHALL BE CENTERED ON TREE AND EXTEND 5' IN BOTH DIRECTIONS FOR A TOTAL OF 10'
2. NOTE: CONTRACTOR TO INSTALL CONCRETE MOWCURBS TO DEFINE THE FOLLOWING AREAS: BETWEEN GRAVEL AND PLANTING AREAS
3. NOTE: QUANTITIES AND AREA CALCULATIONS SHOWN IN LEGEND ARE FOR REFERENCE ONLY. CONTRACTOR RESPONSIBLE FOR ALL QUANTITY TAKE-OFFS AND AREA CALCULATIONS FOR DETERMINING COST AND DELIVERY OF MATERIALS TO SITE

DTSC NOTE

1. THE LANDSCAPING DEPICTED ON THIS PLAN IS SHOWN FOR PRELIMINARY PURPOSES ONLY. FINAL LANDSCAPING WILL REQUIRE REVIEW AND APPROVAL FROM DTSC AND IS SUBJECT TO CHANGE BASED ON DTSC IRRIGATION REQUIREMENTS.

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

roZEN

InSite

123456

1450 W ARTESIA BIVD
ENTITLEMENT
DOCUMENTS

No.	Description	Date
	Revisions	

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PRELIMINARY LANDSCAPE PLAN

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L100

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2/8/2024 9:08:31 AM

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME
TREES		
	LW	LAGERSTROEMIA INDICA X FAURIEI `NATCHEZ` / NATCHEZ CRAPE MYRTLE MULTI-TRUNK
	PC	PISTACIA CHINENSIS / CHINESE PISTACHE
SHRUBS		
	AA	AGAVE ATTENUATA / FOXTAIL AGAVE
	AP	AGAVE PARRYI / PARRY`S AGAVE
	AB	ANIGOZANTHOS X `BIG RED` / BIG RED KANGAROO PAW
	BR	BOUGAINVILLEA X `ROSENKA` / ROSENKA BOUGAINVILLEA
	CL	CALLISTEMON VIMINALIS `LITTLE JOHN` / LITTLE JOHN WEEPING BOTTLEBRUSH
	LH	LANTANA X `NEW GOLD` / NEW GOLD LANTANA
	MC	MUHLENBERGIA CAPILLARIS / PINK MUHLY GRASS
	MA	MUHLENBERGIA CAPILLARIS `AUTUMN BLUSH` / AUTUMN BLUSH PINK MUHLY GRASS
	MD	MUHLENBERGIA DUBIA / PINE MUHLY
	OL	OLEA EUROPAEA 'MONTRA' / LITTLE OLLIE® OLIVE
	PF	PENNISETUM X `FAIRY TAILS` / EVERGREEN FOUNTAIN GRASS
	PR	PHORMIUM TENAX `RADIANCE` / NEW ZEALAND FLAX
	PA	PHORMIUM X `AMAZING RED` / AMAZING RED NEW ZEALAND FLAX
	SS	SALVIA GREGGII `FURMANS RED` / FURMAN`S RED AUTUMN SAGE
	WF	WESTRINGIA FRUTICOSA / COAST ROSEMARY
GROUND COVERS		
	RH	ROSMARINUS OFFICINALIS `HUNTINGTON CARPET` / HUNTINGTON CARPET ROSEMARY
	TS	TRACHELOSPERMUM JASMINOIDES `STAR` / STAR JASMINE

LANDSCAPE NOTES

1. CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANTING DETAILS, PLANT LIST, GENERAL NOTES AND ALL CONTRACT DOCUMENTS FOR FURTHER AND COMPLETE INSTRUCTIONS.
2. PLANT LIST QUANTITIES ARE PROVIDED FOR CONVENIENCE IN THE EVENT OF QUANTITY DISCREPANCIES, THE DRAWING SHALL TAKE PRECEDENCE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
3. ANY SUBSTITUTION IN SIZE AND/OR PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT IN WRITING. ALL PLANTS WILL BE SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT AN /OR OWNER'S REPRESENTATIVE BEFORE PLANTING CAN BEGIN.
4. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO EXISTING UNDER GROUND NULLITIES AND/OR EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES REQUIRED SHALL BE COMPLETE AT THE CONTRACTOR'S EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
5. THE CONTRACTOR SHALL BEAR ALL COSTS OF TESTING OF SOILS, AMENDMENTS, ETC... ASSOCIATED WITH THE WORK AND INCLUDED IN THE SPECIFICATIONS.
6. CONTRACTOR SHALL FAMILIARIZE HIM/HERSELF WITH THE LIMITS OF WORK AND EXISTING CONDITIONS AND VERIFY ALL INFORMATION. IF DISCREPANCIES EXIST,CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IN WRITING WITHIN SEVEN (7) CALENDAR DAYS OF NOTICE TO PROCEED.
7. SUBMIT PRODUCT DATA FOR FERTILIZER, MULCH, AND SOIL AMENDMENTS.
8. PLANT MATERIAL SHALL NOT BE PLANTED INTO ROOT BALLS OF TREES AND PALM.
9. THE SITE SHALL BE IRRIGATED WITH A FULLY AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM PROVIDED 100% COVERAGE WITH 50% OVERLAP ON OVERHEAD SPRAY/ROTARY/ROTOR HEADS. THE SYSTEM WILL BE CONTROLLED BY AN INTELLIGENT CONTROLLER THAT FACTORS EVAPO-TRANSPIRATION RATE AND OTHER ENVIRONMENTAL FACTORS TO AUTOMATICALLY ADJUST THE CLOCK AND SCHEDULE. THE SYSTEM WILL ALSO FEATURE A RAIN SENSOR TO OVERRIDE THE IRRIGATION SYSTEM WHEN ADEQUATE RAINFALL OCCURS.
10. ALL PLANTING SPECIFICATIONS IN THE PLANT SCHEDULE SHALL BE CONSIDERED THE MINIMUM ALLOWABLE SPECIFICATIONS. CONTRACTOR SHALL PROCURE PLANT MATERIALS AND UPSIZE AS NECESSARY TO MEET THE MOST STRINGENT SPECIFICATION.
11. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO FIELD ADJUST ALL PLANT MATERIAL.

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InSite

123456

1450 W ARTESIA BIVD
ENTITLEMENT
DOCUMENTS

No.	Description	Date

Revisions

NOT FOR CONSTRUCTION

PRELIMINARY
LANDSCAPE
SCHEDULE

Kimley»Horn

L101

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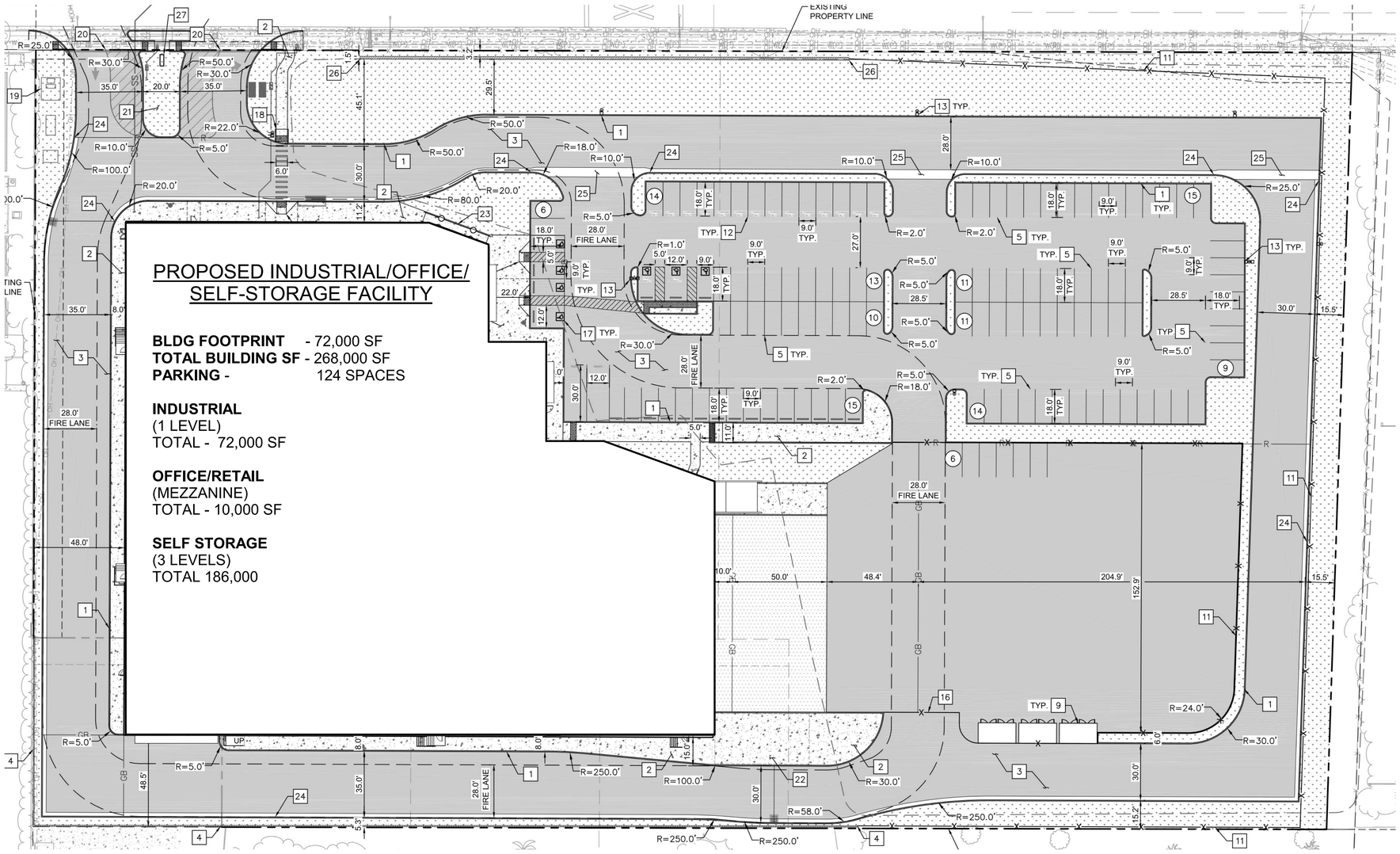

1 Preliminary Site Plan
SCALE: 1" = 30'-0"

PROJECT NORTH

PROJECT SUMMARY

PROJECT ADDRESS:	1450 WEST ARTESIA BOULEVARD	
PARCEL NUMBER(S):	6106-036-034, 6106-036-035 6106-036-036, 6106-036-037 6106-036-012, 6106-036-010	
SITE AREA:	6.53 ACRES (284,235 SF)	
PERVIOUS AREA:	78,076 SF	
IMPERVIOUS AREA:	206,159 SF	
TOTAL SITE AREA:	**284,235 SF**	
OVERLAY DISTRICTS:	ARTESIA CORRIDOR SPECIFIC PLAN	
	EXISTING	PROPOSED
ZONING:	SPECIFIC PLAN	SPECIFIC PLAN
FAR:	--	.94
SETBACKS		
FRONT:	10'	86'
SIDE:	10'	48', 336'-6"
REAR:	10'	48'
HEIGHT:	100'	75'
CONSTRUCTION TYPE:	TYPE II-B FULLY SPRINKLERED PER NFPA 13	
OCCUPANCY:	S-1/B INDUSTRIAL	
BUILDING FOOTPRINT	**72,000 SF**	
INDUSTRIAL (1 LEVEL)	72,000 SF	
OFFICE/RETAIL (MEZZANINE)	10,000 SF	
SELF STORAGE (3 LEVELS)	186,000 SF	
TOTAL GROSS BUILDING AREA:	**268,000 SF**	

PARKING INFORMATION

EXISTING PARKING	-
PARKING PROVIDED:	
STANDARD SPACES:	103 SPACES
ACCESSIBLE:	7 SPACES
EV:	14 SPACES
TOTAL:	124 SPACES

SITE NOTES

1. PROPOSED CURB.
2. PROPOSED CONCRETE SIDEWALK.
3. PROPOSED ASPHALT CONCRETE.
4. PROPOSED 8" CMU RETAINING WALL.
5. PROPOSED STANDARD 90° PARKING STALL.
9. PROPOSED TRASH ENCLOSURE.
11. PROPOSED 6' SECURITY FENCE.
12. PROPOSED EV CHARGING STALL.
13. PROPOSED SITE LIGHT.
16. PROPOSED SECURITY GATE WITH EMERGENCY VEHICLE ONLY KNOX BOX.
17. PROPOSED ACCESSIBLE PARKING STRIPING.
18. PROPOSED ACCESSIBLE RAMP.
19. PROPOSED TRANSFORMER.
20. INSTALL CITY STANDARD DRIVEWAY AND CURB RAMPS PER CITY STANDARD DETAIL ST-1.
21. PROPOSED RAISED ENTRY MEDIAN.
22. PROPOSED VAPOR TREATMENT FACILITY PAD (BY OTHERS).
23. PROPOSED RAMP WITH HANDRAILS.
24. PROPOSED CURB AND GUTTER
25. PROPOSED VALLEY GUTTER.
26. GARDEN WALL PER REMEDIATION PLAN (BY OTHERS).
27. PROPOSED SIGN.

LEGEND

- PROPOSED PROPERTY LINE
- EXISTING PROPERTY LINE
- X PROPOSED 6' SECURITY FENCE
- GB GRADE BREAK
- R RIDGE LINE
- HANDRAILS
- APPROXIMATE LIMIT OF REMEDIATION
- W PROPOSED WATER LINE
- SS PROPOSED SEWER LINE
- WATER METER
- BACKFLOW PREVENTER
- TRANSFORMER
- PROPOSED LANDSCAPING
- PROPOSED STANDARD DUTY CONCRETE
- PROPOSED HEAVY DUTY CONCRETE
- PROPOSED ASPHALT CONCRETE
- (X) PROPOSED PARKING COUNT
- PROPOSED SITE LIGHT
- PROPOSED MANHOLE
- PROPOSED INLET

InSite

This conceptual design is based upon a preliminary review of entitlement requirements and on unverified and possibly incomplete site and/ or building information, and is intended merely to asist in exploring how the project might be developed. Signage, materials, and other visualization tools are for illustrative purposes only and does not necessarily reflect municipal code compliance.

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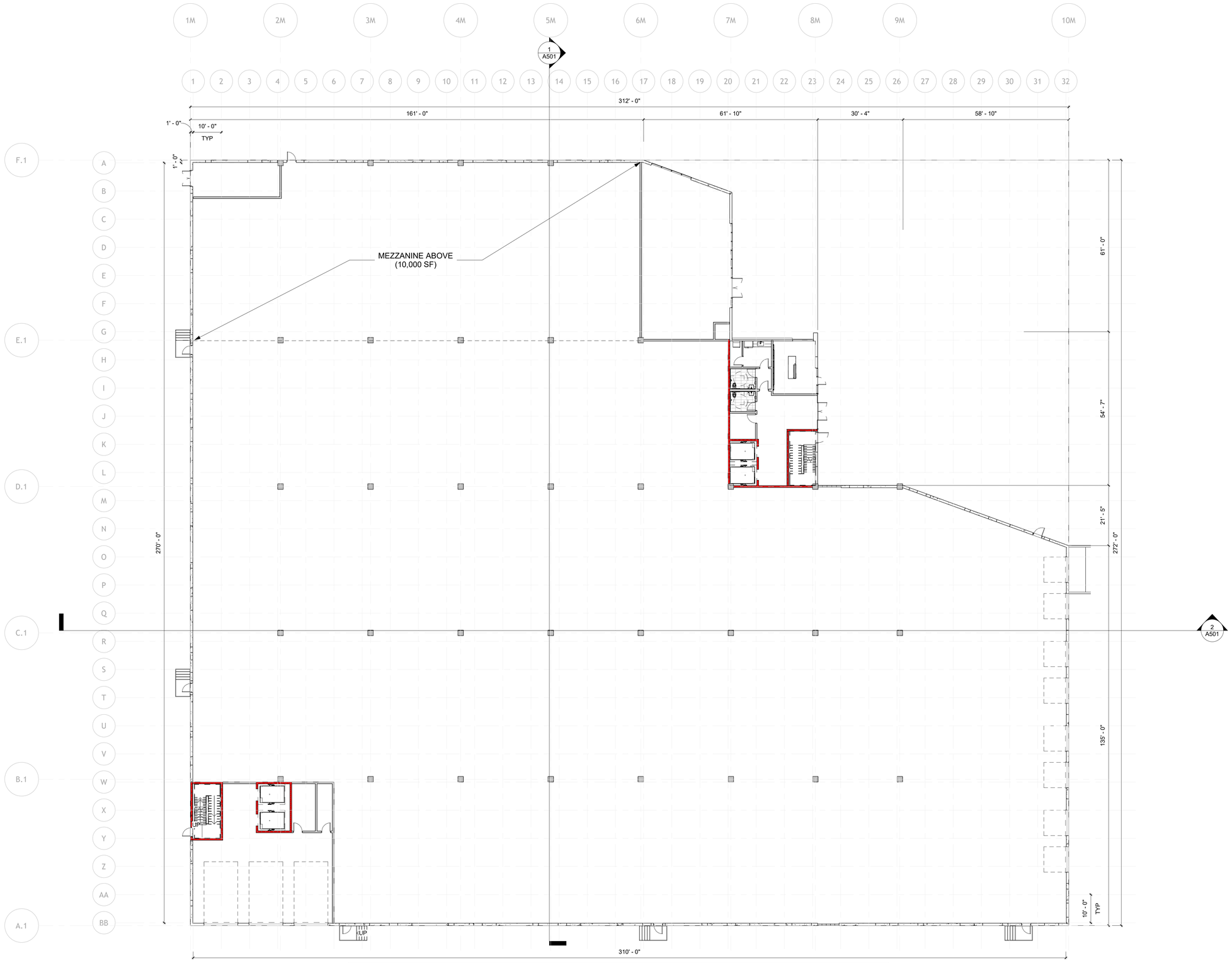
SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

PRELIMINARY SITE PLAN

A101



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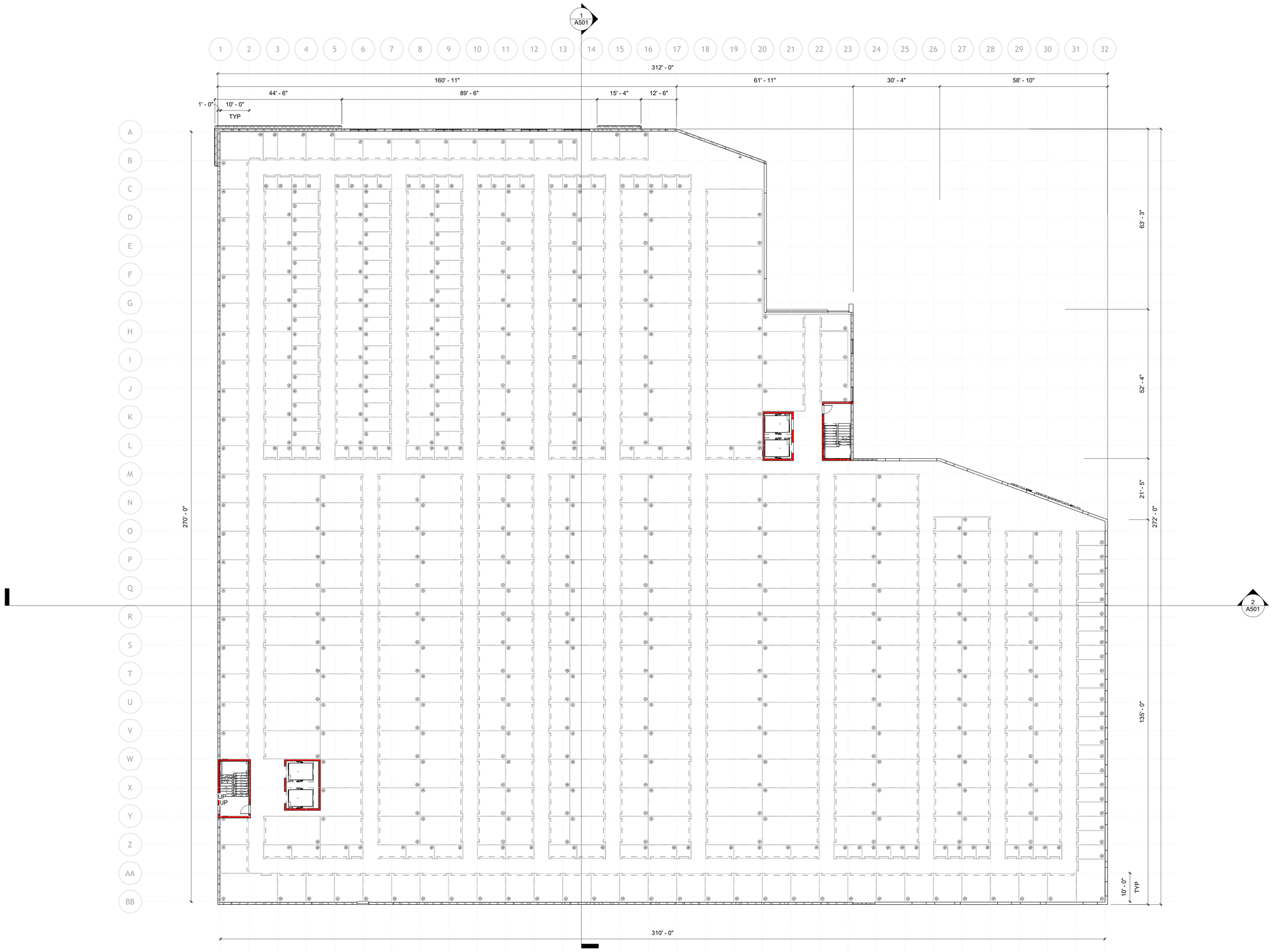
SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

LEVEL 1 - OVERALL FLOOR PLAN

A201



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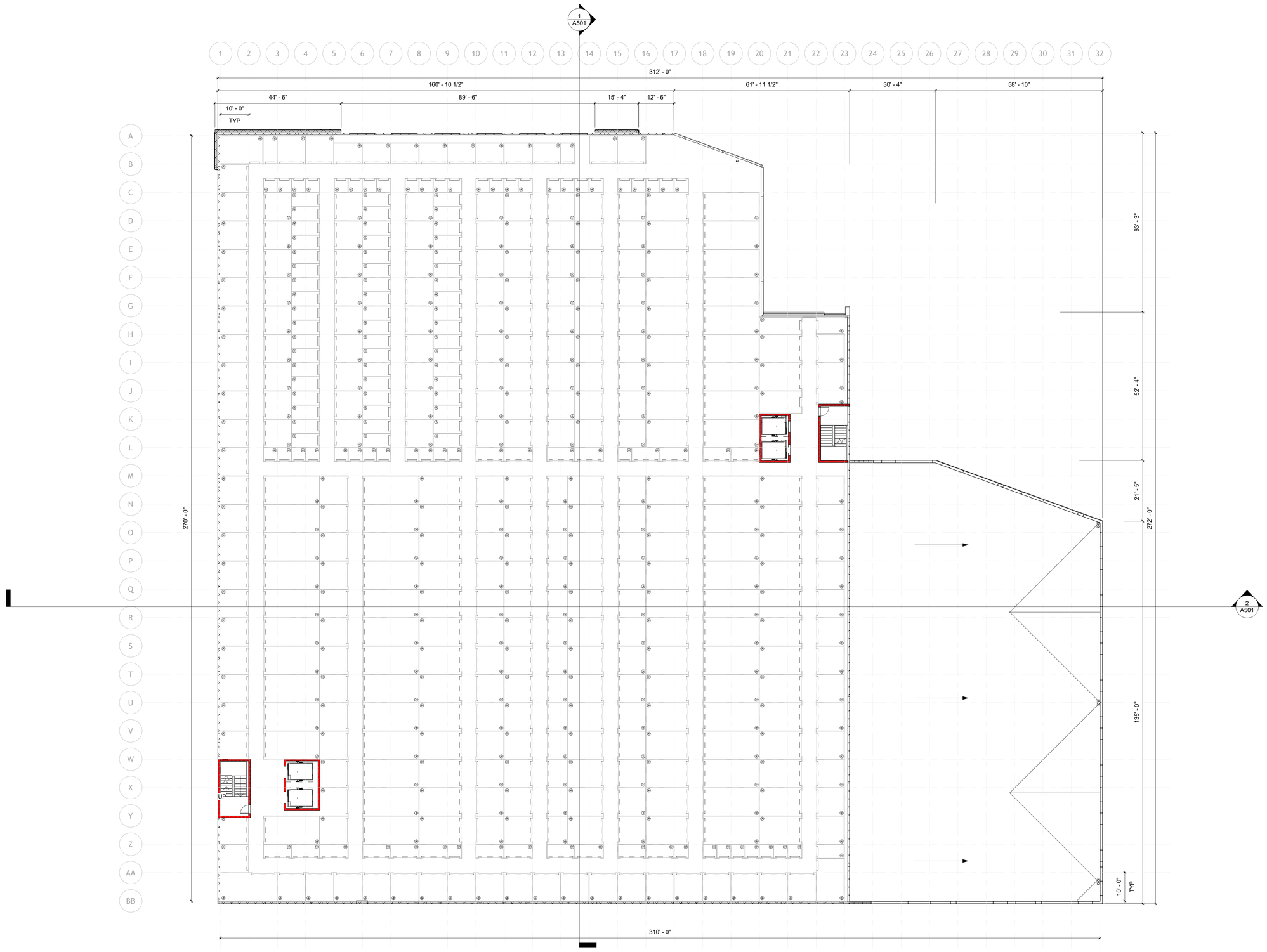
SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

LEVEL 2 - OVERALL FLOOR PLAN

A202



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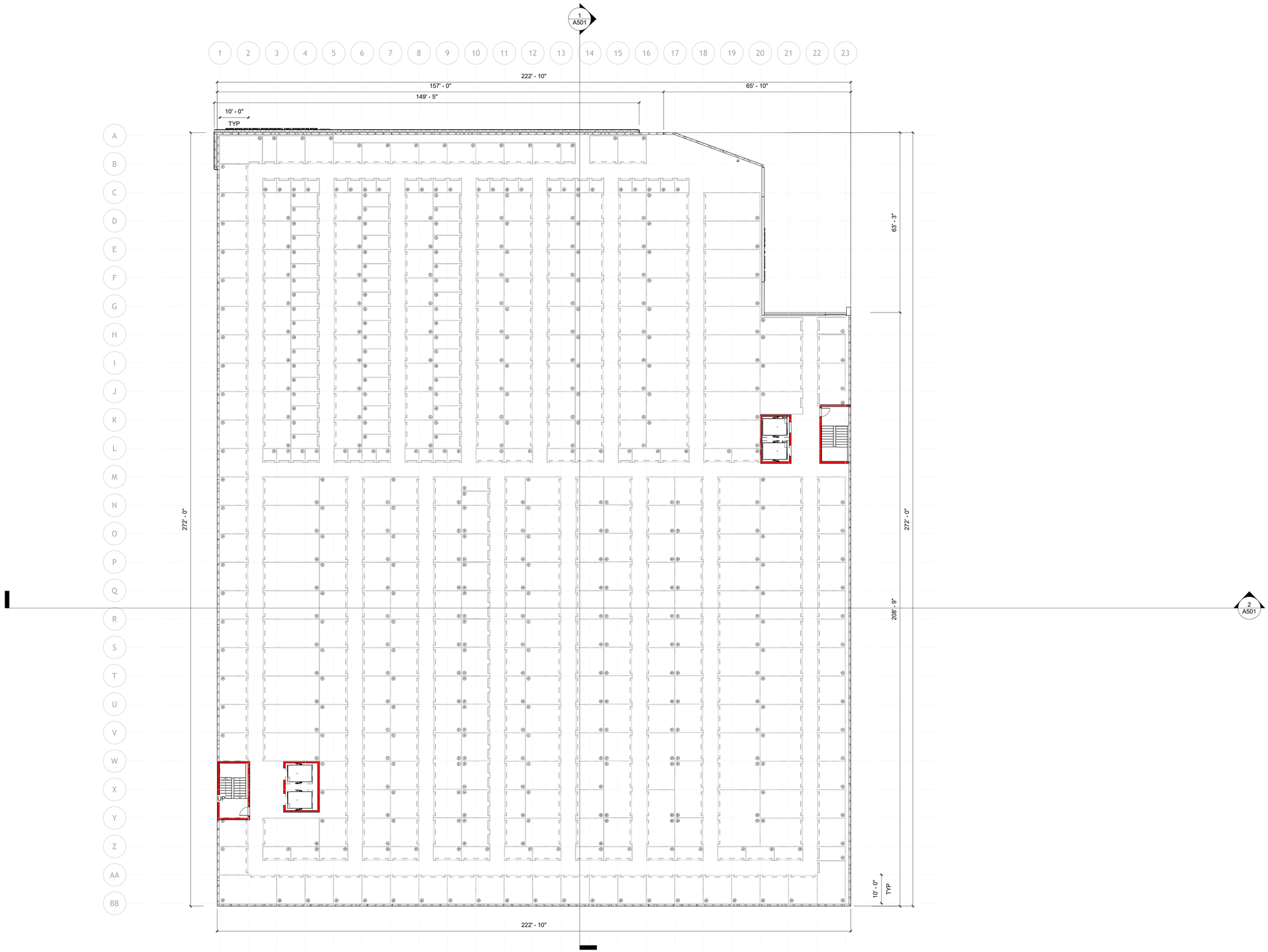
SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

LEVEL 3 - OVERALL FLOOR PLAN

A203



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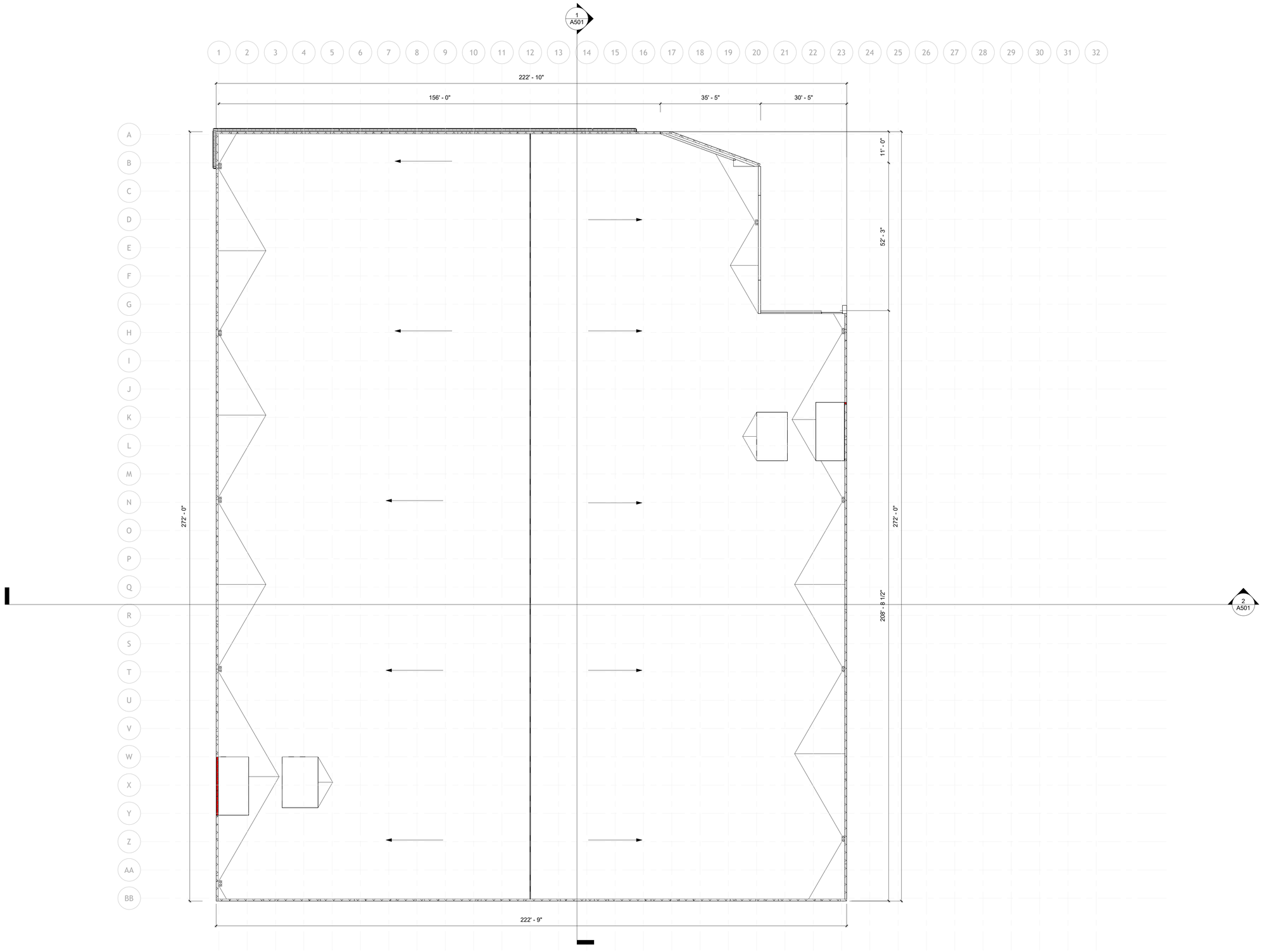
SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

LEVEL 4 - OVERALL FLOOR PLAN

A204



InSite

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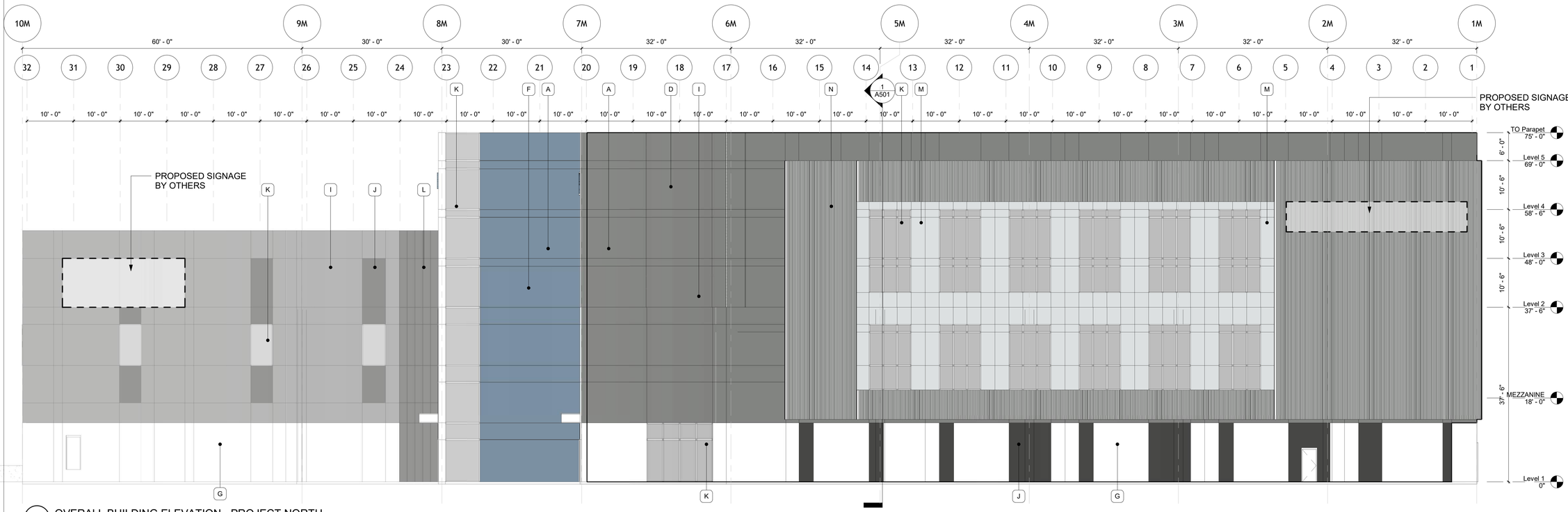
SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

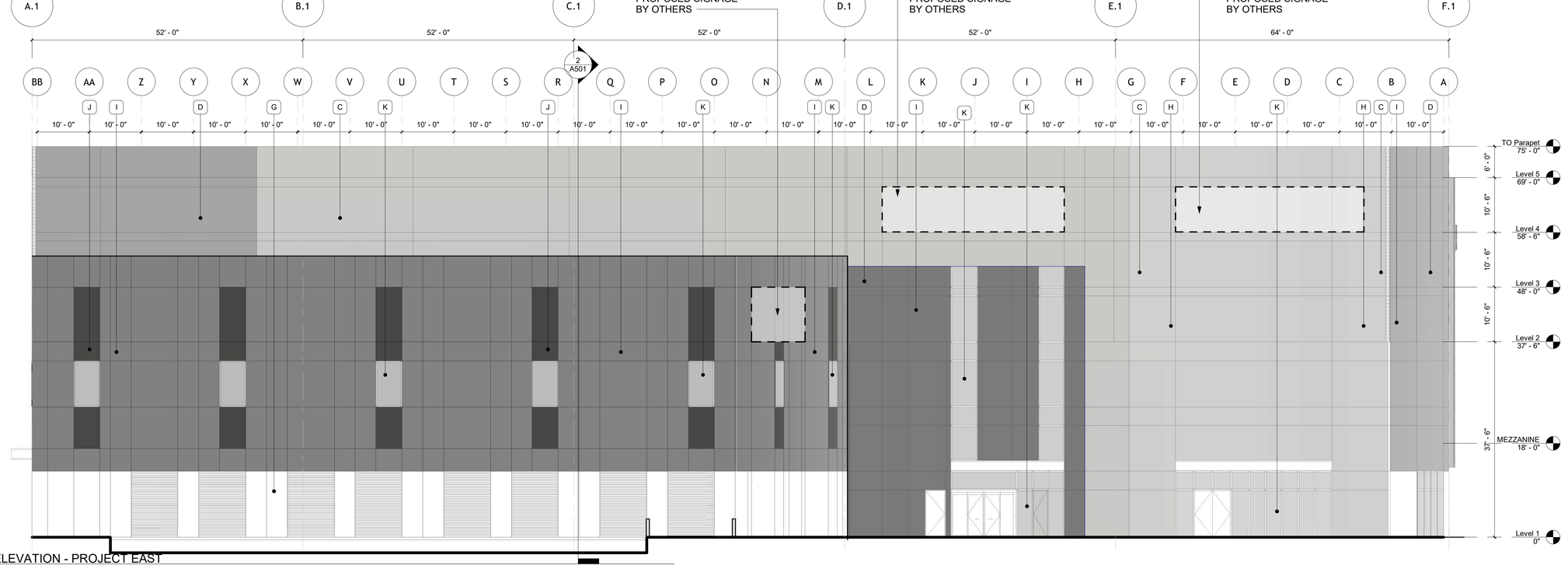
LEVEL 5 - OVERALL ROOF PLAN

A205



1 OVERALL BUILDING ELEVATION - PROJECT NORTH
SCALE: 3/32" = 1'-0"

A STUCCO PT-01: SW6523 "DENIM"
B STUCCO PT-02 SW6238 "ICICLE"
C STUCCO PT-03 SW7006 "MAGNETIC GREY"
D STUCCO PT-04 SW7006 "CITYSCAPE"
E STUCCO PT-5 SW7006 "IRON ORE"
F CONCRETE PT-01: SW6523 "DENIM"
G CONCRETE PT-02: SW6238 "ICICLE"
H CONCRETE PT-03: SW7058 "MAGNETIC GREY"
I CONCRETE PT-04: SW7067 "CITYSCAPE"
J CONCRETE PT-05: SW7069 "IRON ORE"
K VISION GLASS :: QA 1" INSULATED CLEAR
L INSULATED METAL PANEL 1: KINGSPAN "WEATHERED ZINC"
M INSULATED METAL PANEL 2: KINGSPAN "SILVERSMITH"
N MORIN PULSE 1 REGALE WHITE



3 OVERALL BUILDING ELEVATION - PROJECT EAST
SCALE: 3/32" = 1'-0"

InSite

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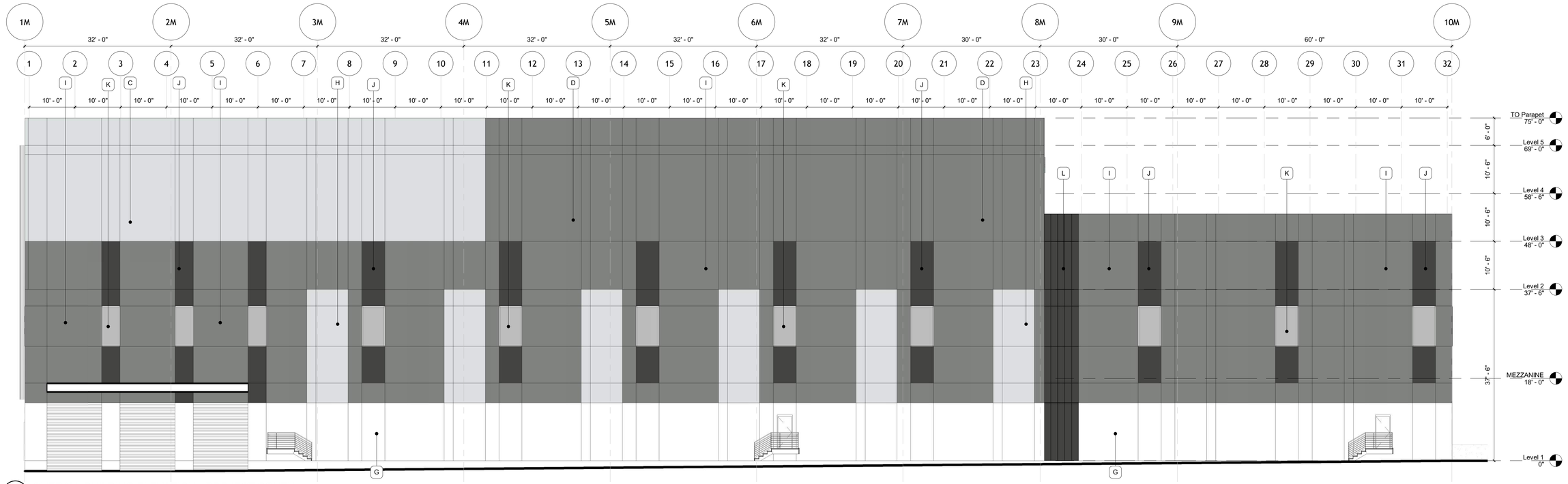
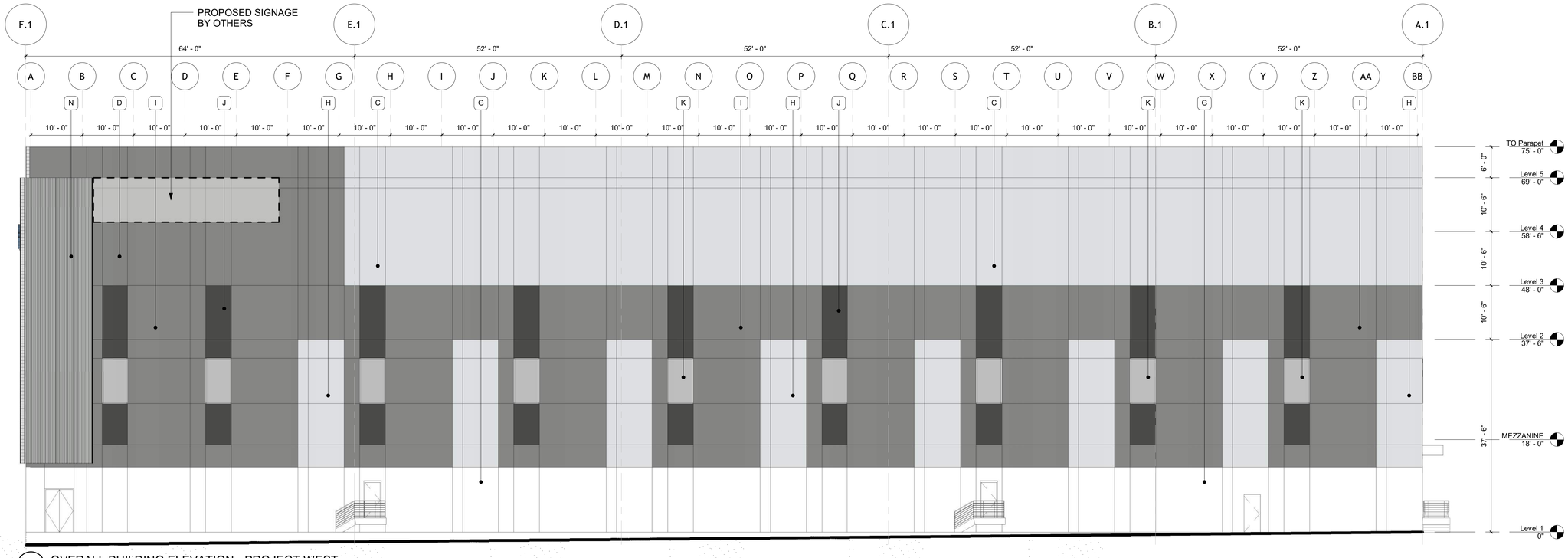
SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

OVERALL BUILDING ELEVATIONS

A401



1 OVERALL BUILDING ELEVATION - PROJECT SOUTH
SCALE: 3/32" = 1'-0"



2 OVERALL BUILDING ELEVATION - PROJECT WEST
SCALE: 3/32" = 1'-0"

- A — STUCCO PT-01: SW6523 "DENIM"
- B — STUCCO PT-02 SW6238 "ICICLE"
- C — STUCCO PT-03 SW7006 "MAGNETIC GREY"
- D — STUCCO PT-04 SW7006 "CITYSCAPE"
- E — STUCCO PT-5 SW7006 "IRON ORE"
- F — CONCRETE PT-01: SW6523 "DENIM"
- G — CONCRETE PT-02: SW6238 "ICICLE"
- H — CONCRETE PT-03: SW7058 "MAGNETIC GREY"
- I — CONCRETE PT-04: SW7067 "CITYSCAPE"
- J — CONCRETE PT-05: SW7069 "IRON ORE"
- K — VISION GLASS :: QA 1" INSULATING CLEAR
- L — INSULATED METAL PANEL 1: KINGSPAN "WEATHERED ZINC"
- M — INSULATED METAL PANEL 2: KINGSPAN "SILVERSMITH"
- N — MORIN PULSE 1 REGALE WHITE

InSite

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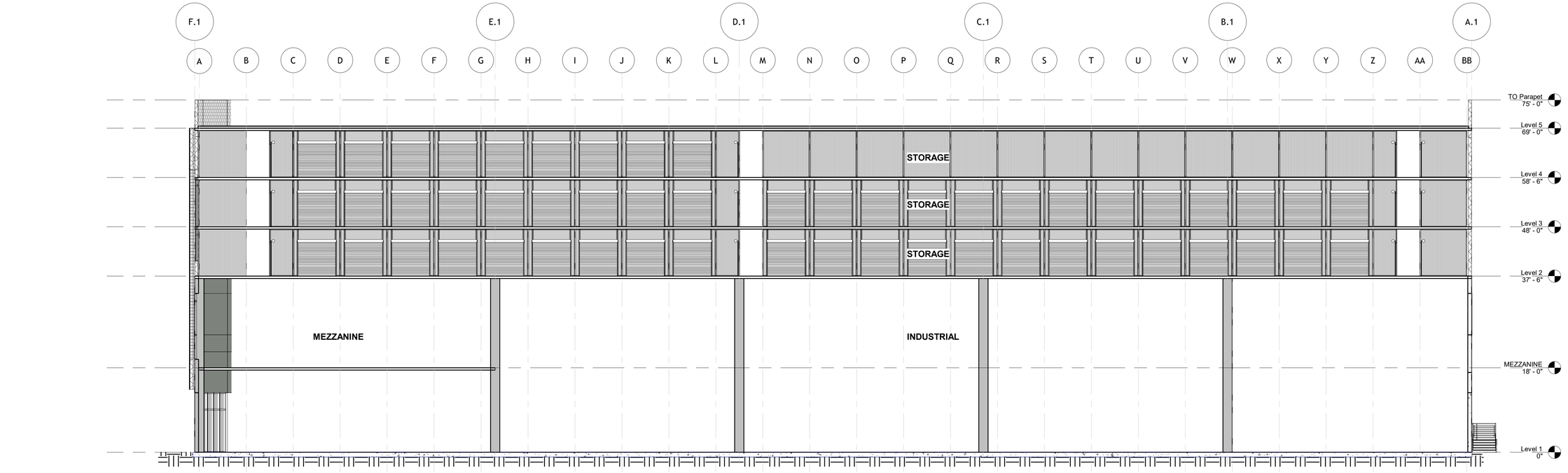
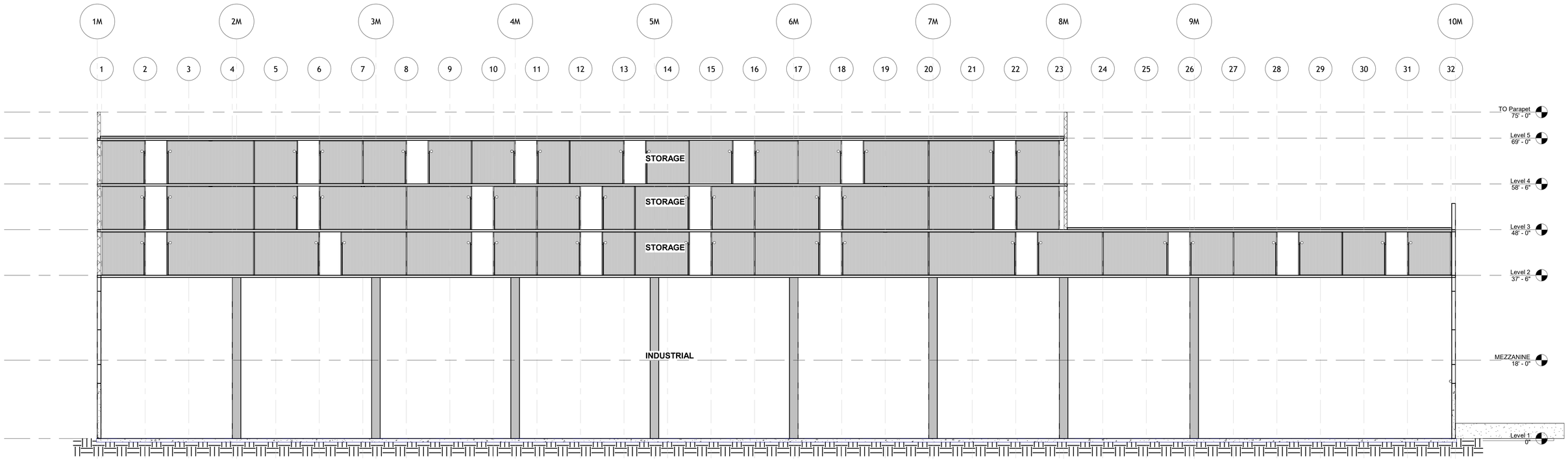
SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

OVERALL BUILDING ELEVATIONS

A402



1 NORTH/SOUTH SECTION
SCALE: 3/32" = 1'-0"



2 EAST/WEST SECTION
SCALE: 3/32" = 1'-0"

InSite

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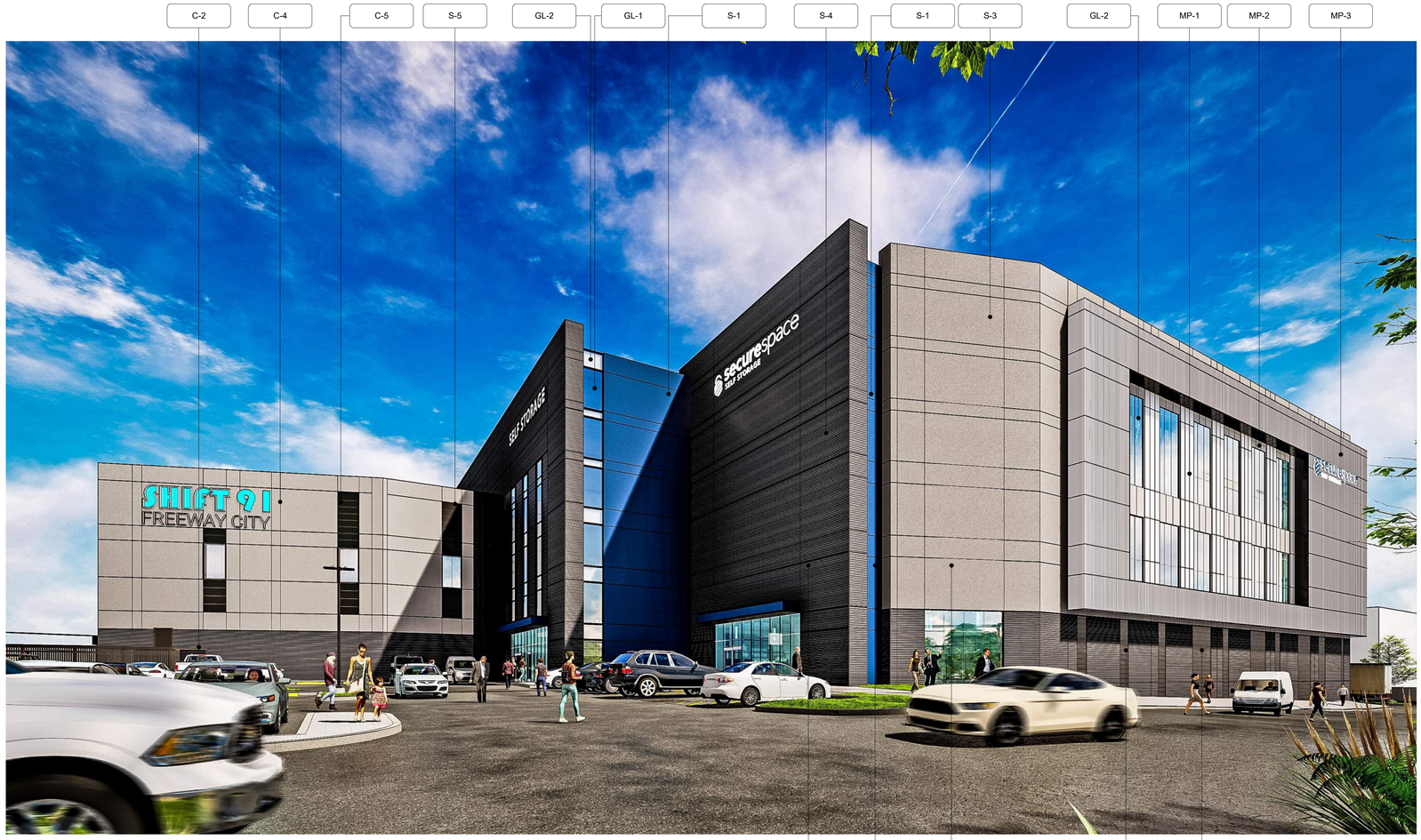
SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

BUILDING SECTIONS

A501



C-5

CONCRETE - PAINT
SHERWIN WILLIAMS 7069
"IRON ORE"

C-2

CONCRETE - PAINT
SHERWIN WILLIAMS SW6238
"ICICLE"

C-4

CONCRETE - PAINT
SHERWIN WILLIAMS SW7067
"CITYSCAPE"

C-1

CONCRETE - PAINT
SHERWIN WILLIAMS SW6523
"DENIM"

C-3

CONCRETE - PAINT
SHERWIN WILLIAMS SW7058
"MAGNETIC GREY"

S-5

STUCCO - FINE SAND FINISH
SHERWIN WILLIAMS 7069
"IRON ORE"

S-4

STUCCO - FINE SAND FINISH
SHERWIN WILLIAMS SW7067
"CITYSCAPE"

S-3

STUCCO - FINE SAND FINISH
SHERWIN WILLIAMS SW7058
"MAGNETIC GREY"

S-2

STUCCO - FINE SAND FINISH
SHERWIN WILLIAMS SW6238
"ICICLE"

S-1

STUCCO - FINE SAND FINISH
SHERWIN WILLIAMS SW6523
"DENIM"

MP-1

INSULATED METAL PANEL
KINGSPAN
"WEATHERED ZINC"

MP-2

INSULATED METAL PANEL
KINGSPAN
"SILVERSMITH"

MP-3

SCREEN METAL PANEL/MORIN
PULSE 1
"REGALE WHITE"

GL-1

VISION GLASS
OLDCASTLE 1" INSULATING
CLEAR

GL-2

SPANDREL GLASS
VIRACON 1" VE 1-48 INSULATING
V951 "WHITE"

InSite

This conceptual design is based upon a preliminary review of entitlement requirements and on unverified and possibly incomplete site and/ or building information, and is intended merely to asist in exploring how the project might be developed. Signage, materials, and other visualization tools are for illustrative purposes only and does not necessarily reflect municipal code compliance.

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SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

MATERIAL BOARD

A901

PROJECT RENDERING 1

PROJECT RENDERING 2

PROJECT RENDERING 3

PROJECT RENDERING 4

InSite

This conceptual design is based upon a preliminary review of entitlement requirements and on unverified and possibly incomplete site and/ or building information, and is intended merely to assist in exploring how the project might be developed. Signage, materials, and other visualization tools are for illustrative purposes only and does not necessarily reflect municipal code compliance.

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SECURE SPACE SELF STORAGE
1450 W ARTESIA BLVD, GARDENA, CA
Schematic Design

PROJECT RENDERINGS

A902

EXHIBIT C

CITY OF GARDENA
CONDITIONS OF APPROVAL FOR:

ENVIRONMENTAL ASSESSMENT #9-21; SPECIFIC PLAN #1-23; SITE PLAN REVIEW #5-21; AND DEVELOPMENT AGREEMENT #1-21

1440, 1450, 1462, and 1472 Artesia Boulevard,
(APNs: 6106-036-010, -012, -034, -035, -036, -037)

GENERAL CONDITIONS

GC 1. The applicant accepts all of the conditions of approval set forth in this document and shall sign the acknowledgment. A copy of the signed document shall be submitted to the Community Development Department prior to issuance of any construction permit.

GC 2. Development of this site shall comply with the requirements and regulations of Title 15 (Building and Construction), Title 17 (Subdivisions) and Title 18 (Zoning) of the Gardena Municipal Code, except as modified by the Specific Plan.

GC 3. The applicant shall comply with all written policies, resolutions, ordinances, and all applicable laws in effect at time of the effective date of the development agreement. The conditions of approval shall supersede all conflicting notations, specifications, and dimensions which may be shown on the project development plans. The conditions of approval include any requirements set forth in the Development Agreement, regardless of whether they are specifically set forth herein.

GC 4. The site plan layout shall be in accordance with the plans approved by the City Council as may be modified by these conditions of approval. The final completed project shall be in substantial compliance with the plans upon which the City Council based its decision, as modified by such decision.

GC 5. In accordance with GMC Section 8.20.130.A, trash pick-up and other exterior facility cleaning activities shall be restricted to the hours of 7 a.m. to 6 p.m., Monday through Friday. These activities shall be prohibited during peak traffic hours.

GC 6. In accordance with GMC Section 18.42.140, all mechanical equipment, plumbing lines, heating and cooling units and storage tanks and ductwork, roof or ground mounted, shall be incorporated into the building envelope or shall be screened on all sides with solid material so that no part of the equipment is above the enclosure or screening.

GC 7. The applicant shall defend, indemnify, and hold harmless the City, its agents, officers, and employees from any claims, actions or proceedings, damages, costs (including without limitation attorneys' fees), injuries, or liabilities against the City or its agents, officers, or employees arising out of the City's approval

of Environmental Assessment #9-21; Specific Plan #2-21; Lot Merger #1-21; Site Plan Review #11-21; and Development Agreement #1-21. The City shall promptly notify the applicant of any claim, action, or proceeding and the City shall cooperate fully in the defense. If the City fails to promptly notify the applicant of any claim, action, or proceeding, or if the City fails to cooperate fully in the defense, the applicant shall not thereafter be responsible to defend, indemnify, or hold harmless the City. Although the applicant is the real party in interest in action, the City may, at its sole discretion, participate in the defense of any action with the attorneys of its own choosing, but such participation shall not relieve the applicant of any obligation under this condition, including the payment of attorneys' fees.

GC 8. The applicant shall comply with all mitigation measures set forth in the Mitigation Monitoring and Reporting Program adopted for the Project under Resolution No. 6693.

PLANNING

PL1. The approvals granted herein shall be utilized within the time period that the Development Agreement is in effect. Utilization shall mean the issuance of building permits.

PL2. These Conditions of Approval and the signed acknowledgement of acceptance shall be copied in their entirety and placed directly onto a separate plan sheet behind the cover sheet of the development plans prior to Building and Safety plan check submittal. Said copies shall be included in all development plan submittals, including revisions and the final working drawings.

PL3. The applicant shall submit for review and approval detailed landscape and irrigation plans prepared by a licensed landscape architect to the Director of Community Development or designee that is consistent with the State's Water Efficient Landscape Guidelines. At a minimum, tree size shall be 24-inch box and shrubs shall be five (5) gallon size. Metal cages, painted green, shall be used to protect irrigation check valves and controller, and consistent with the landscape plans approved by the City Council.

PL4. The applicant shall submit a site lighting plan, with photometrics, for review and approval to the Community Development Department prior to the issuance of building permits. The plan shall ensure that all exterior lighting (i.e., parking areas, building areas, and entries) shall employ illumination in a manner that meets the approval of the Building Official and the Director of Community Development or designee before building permits are issued. All light fixtures shall be designed and located in a manner that does not allow spillover onto adjacent properties. All light fixtures shall further comply with the requirements of the specific plan. The plans shall demonstrate an average of 2-foot candles of light, with a minimum of 1-foot candle for all public and common areas.

PL5. Colors and materials as shown on the development plans under Exhibit B, are approved. Deviation from colors and materials shall be processed in accordance with the procedures in the Specific Plan.

PL6. A master sign program shall be submitted to the Community Development Director for administrative approval. The master sign program shall include identification and wayfinding signage throughout the Specific Plan Area.

PL7. The applicant/developer shall place all mailboxes in accordance with U.S. Postal Regulations, as reviewed and approved by the Director of Community Development and the Gardena Postmaster prior to the issuance of a Certificate of Occupancy.

PL8. The development shall comply with all development standards of the 1450 Artesia Specific Plan.

PL9. The applicant shall reimburse the City for all attorney's fees spent in processing the project application, including review of all documents required by these conditions of approval.

PL10. All landscaping shall be maintained in a healthy and well-kept manner at all times. Dead or damaged landscape material/vegetation shall be replaced immediately per the approved landscape plan. The irrigation system shall be maintained at all times. Trees on private property shall be permitted to grow to their maximum height.

PL11. The applicant shall maintain the building in good condition at all times and shall repaint the approved buildings and accouterments every eight years at a minimum. The Director of Community Development or designee may require more frequent painting if the improvements are not maintained in good condition.

PL12. The applicant shall submit a parcel map prepared by a qualified California civil engineer or licensed surveyor for the formal merger of the six parcels into a single lot, in compliance with GMC Title 17 and the Subdivision Map Act. The merger must be recorded on the property prior to the issuance of a certificate of occupancy.

PROJECT DESIGN FEATURES

DF 1. The Project shall be designed to be all-electric and there shall be no connection to natural gas infrastructure.

DF 2. The applicant shall ensure that the Final RAP, coordinated by ARC, is implemented prior to the commencement of construction. The portion of the project site overlapping the sump areas and the top of the engineered cap shall be paved and used as a parking lot, as depicted in Exhibit B.

DF 3. The applicant will comply with all institutional controls that DTSC may require as part of the ongoing use of the site, except for those assigned to ARC as part of its Final RAP.

DF 4. The applicant shall install a soil vapor barrier and ventilation systems beneath the proposed structure to prevent indoor soil vapor intrusion, in accordance with the guidelines outlined in the Vapor Intrusion Mitigation Advisory published by DTSC and CalEPA.

BUILDING & SAFETY

BS1. The applicant shall comply with all applicable portions of the most current California Building Standards Code (Title 24, California Code of Regulations) in effect at the time of permit application.

BS2. The applicant shall obtain separate Building Division including permits for Demolition, Grading, Building, Electrical, Plumbing, Mechanical, and Fences and Walls if required.

BS3. The applicant shall comply with all conditions set forth by other departments and agencies, including but not limited to: Gardena Planning, Gardena Public Works, and Los Angeles County Fire Department.

BS4. The applicant shall comply with the latest adopted Los Angeles County Fire Code and Fire Department requirements, as applicable.

BS5. The applicant shall demonstrate that coverages has been obtained under California's General Permit for Stormwater Discharges Associated with Construction Activity by providing a copy of the Notice of Intent (NOI) submitted to the State Water Resources Control Board and a copy of the subsequent notification of the issuance of a Waste Discharge Identification (WDID) Number or other proof of filing shall be provided to the Chief Building Official and the City Engineer. Projects subject to this requirement shall prepare and implement a Storm Water Pollution Prevention Plan (SWPPP). A copy of the SWPPP shall be kept at the project site and be available for review on request. Best Management Practices shall be used during construction to prevent construction materials and soil from entering the storm drain.

BS6. The applicant shall submit a Final Priority WQMP to the Building Division for review and approval. This plan shall be in conformance with all current NPDES requirements. The WQMP must implement Low Impact Development (LID) principles such that projects infiltrate, harvest, re-use, evaporation, or bio-treat

storm water runoff. Sheet flowing storm-water, without filtering, is no longer acceptable.

BS7. Prior to demolition activities, an asbestos survey shall be conducted by an Asbestos Hazard Emergency Response Act (AHERA) and California Division of Occupational Safety and Health (Cal/OSHA) certified building inspector to determine the presence or absence of asbestos containing-materials (ACMs).

BS8. A grading plan shall be submitted by the applicant/developer to the Building Official for review and approval. Grading shall be in substantial conformance with the proposed project plans.

BS9. The applicant shall provide a complete hydrology and hydraulic study prepared by a qualified engineer, and comply with the recommendations of the engineer, to the satisfaction of the Building Official.

BS10. The applicant shall submit a Final Geotechnical Investigation for City review/approval and comply with its recommendations and any revisions deemed necessary by the City's Building Official. The Gardena Building Services Division will review construction plans to verify compliance with standard engineering practices, the GMC/CBSC, and the Geotechnical Investigation's recommendations.

BS11. The applicant shall prepare construction and demolition waste recycling plans for review and approval by the Building Division. The applicant shall enroll in the city's waste diversion program.

BS12. The applicant shall post procedures and phone numbers at the construction site for notifying the City, local Police Department, and construction contractor (during regular construction hours and off- hours), along with permitted construction days and hours, complaint procedures, and who to notify in the event of a problem.

BS13. The applicant shall notify neighbors and occupants within 300 feet of the project construction area at least 30 days in advance of anticipated times when noise levels are expected to exceed limits established in the noise element of the general plan or noise ordinance.

BS14. The applicant/contractors shall adhere to the City's Labor Transparency regulations in accordance with Ordinance No. 1874. This requires, in part, contractors and subcontractors involved in the project to disclose any pending or final determinations related to state or federal labor violations, along with any penalties paid, within the past five years.

BS15. The applicant shall designate an on-site construction complaint and enforcement manager for the project.

BS16. The applicant shall ensure that all construction equipment is properly maintained per manufacturers' specifications and fitted with the best available noise suppression devices (e.g., improved mufflers, equipment redesign, use of intake silencers, ducts, engine enclosures, and acoustically attenuating shields or shrouds silencers, wraps). All intake and exhaust ports on power equipment shall be muffled or shielded.

PUBLIC WORKS – ENGINEERING DIVISION

PW1. All work in the public right of way shall be constructed in accordance with the Standard Plans and Standard Specifications for Public Works Construction, latest edition and the City and State Codes as applicable. This includes supplements thereto and City of Gardena Standard Drawings. All work shall be designed and signed by a registered Civil Engineer or other applicable professional license engineer(s).

PW2. Before undertaking any Encroachment/Excavation within the public right of way, the applicant must first obtain the applicable permit from the Public Works Engineering Division.

PW3. The project shall utilize the County's benchmarks and any controlling survey monumentation (property lines, tract lines, street centerline, etc.) which are at risk of being destroyed or disturbed during the course of the project must be preserved in accordance with Section 8771(b) of the California Business and Professions Code (Professional Land Surveyors Act). Preconstruction field ties, along with the preparation and filling of the required Corner Records or Record of Survey with the County of Los Angeles, shall be accomplished by, or under the direction of, a licensed surveyor or civil engineer authorized to practice land surveying.

Copies of said records shall be furnished to the City Engineering for review and approval prior to issuance of any onsite or offsite construction permit. In addition, any monuments disturbed or destroyed by this project must be reset and post-construction Corner Records or Record of Survey filed with the County of Los Angeles. A copy of the recorded documents shall be submitted to the Engineering office for review and approval prior to issuance and/or finalizing any permits within the public right of way.

PW4. Prior to issuance of permits, all public improvements (if any) shall be guaranteed to be installed by the execution of an Agreement for Pubic Improvements secured by sufficient bond sureties or cash, complete indemnification form, Certification of Insurance (General Liability, Auto & Workers Compensation) naming City of Gardena as additional insured, contractor State License and City Business License.

PW5. The applicant shall remove and replace all sidewalk, curb, gutter, driveway, and street signages fronting property along Artesia Boulevard. The applicant shall submit improvement plans to the City Public Works department that show all sidewalk structures plus, all incidental improvements such traffic markings, re-paint existing curbs, install traffic signs, curb drains, etc.

PW6. The applicant submit improvement plans for trees to be located in the sidewalks on Artesia Boulevard to the City Public Works Department for review and approval.

PW7. Prior to the issuance of demolition or construction permits, the applicant shall prepare and implement a construction management plan, which shall be reviewed and approved by the Public Works Director. The Public Works Director may revoke any approvals if significant impacts arise. The plan must ensure that pedestrian access remains unimpeded at all times and that no materials are staged in any public right-of-way.

PW8. Pedestrian access to all surrounding public sidewalks shall be provided at all times, except during such times as improvements are being made to the sidewalks as required by these conditions.

PW9. The applicant shall provide traffic control plans per WATCH (Work Area Traffic Control Handbook) and/or California MUTCD (California Manual on Uniform Traffic Control Devices) per the latest standard pending proposed controls (permanent-overnight or temporary). The temporary/permanent traffic control plans shall be prepared by, or under the direction of, a licensed civil engineer or other authorized to practice traffic engineering.

PW10. The applicant shall provide Street Improvement Plans showing all requirements and submit them to the Public Works Department for review and approval. The Street Improvement Plan shall be stamped and signed by a Civil Engineer Registered in the state of California. As-built plan signed and stamped by the Engineer of Record shall be submitted to the Public Works Department prior to finalizing and closing permit. Any deviations from the approved plan will require a submittal of plan revision for the City review and approval.

PW11. The applicant is responsible for all applicant permit, plan check, surety, and other incidental fees pertaining to the proposed project.

STANDARD CONDITIONS TO REDUCE IMPACTS (Gardena Municipal Code Section 18.42.210. C, D, and E)

GMC1. Prior to commencement of ground-disturbing activities, a qualified vertebrate paleontologist (as defined by the Society for Vertebrate Paleontology) shall

develop Worker Awareness and Environmental Program (WEAP) Training for construction personnel. This training shall be presented to construction personnel and include what fossil remains may be found within the Project area and policies and procedures that must be followed in case of a discovery. Verification of the WEAP Training shall be provided to the Gardena Community Development Department.

GMC2. If fossils or fossil bearing deposits are encountered during ground-disturbing activities, work within a 25-foot radius of the find shall halt and a professional vertebrate paleontologist (as defined by the Society for Vertebrate Paleontology) shall be contacted immediately to evaluate the find. The paleontologist shall have the authority to stop or divert construction, as necessary. Documentation and treatment of the discovery shall occur in accordance with Society of Vertebrate Paleontology standards. The significance of the find shall be evaluated pursuant to the State CEQA Guidelines. If the discovery proves to be significant, before construction activities resume at the location of the find, additional work such as data recovery excavation may be warranted, as deemed necessary by the paleontologist and full-time paleontological monitoring shall occur for the remainder of ground disturbance for the project.

GMC3. If Native American or tribal cultural resources are found on the site, the applicant shall enter into a cultural resources treatment agreement with a local Native American tribe traditionally and culturally affiliated with Gardena that is acknowledged by the Native American Heritage Commission, which shall address the following:

a. Treatment and disposition of cultural resources;

b. Designation, responsibilities, and participation of professional tribal monitors during grading, excavation and ground disturbing activities;

c. Project grading and development scheduling;

d. Terms of compensation for the tribal monitors;

e. Treatment and final disposition of any cultural resources, sacred sites, and human remains discovered on site;

f. Tribal monitor's authority to stop and redirect grading in order to evaluate the significance of any potential resources discovered on the property, and to make recommendations as to treatment; and

g. The applicant's agreement to relinquish ownership of all cultural resources, including all archaeological artifacts that are found on the project area, to the tribe for proper treatment and disposition; and the applicant's agreement that all tribal sacred sites are to be avoided and preserved.

GMC4. In compliance with state law, if human remains are unearthed, the project developer, pursuant to State Health and Safety Code Section 7050.5, will contact the county coroner and ensure no further disturbance occurs until the

county coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98.

GMC5. If the remains are determined to be of Native American descent, the Native American Heritage Commission (NAHC) must be notified within twenty-four hours.

GMC6. Construction, grubbing, brushing, or tree removal shall be conducted outside of the state identified nesting season for migratory birds (typically March 15th through September 1st) if possible. If construction is conducted during nesting season, a pre-construction nesting bird survey shall be conducted within and immediately adjacent to the project site by a qualified professional biologist no more than seven days prior to the beginning of any project-related physical activity that is likely to impact migratory birds. If active nests are found during the pre-construction nesting bird survey, a nesting bird plan (NBP) shall be prepared by a qualified biologist and implemented during construction. At a minimum, the NBP shall include guidelines for addressing active nests, establishing buffers, monitoring, and reporting. The size, location and duration of all buffer zones, if required, shall be based on the nesting species, nesting stage, nest location, its sensitivity to disturbance, and intensity and duration of the disturbance activity. The buffers shall be maintained until the breeding season has ended or until a qualified professional biologist has determined that the birds have fledged and are no longer reliant upon the nest or parental care for survival.

GOLDEN STATE WATER COMPANY

GS1. The applicant shall contact Golden State Water Company for review of the existing water main once Los Angeles County Fire Department has issued their fire protection requirements on the project to initiate application for new service installation.

LOS ANGELES COUNTY FIRE DEPARTMENT

FD1. The applicant shall submit plans and specifications to the County of Los Angeles Fire Department Fire Prevention Engineering Section Building Plan Check Unit for review prior to building permit issuance.

LOS ANGELES COUNTY SANITATION DISTRICTS

SD1. The applicant shall pay a connection fee before a permit to connect to the sewer is issued. For more specific information regarding the connection fee application procedure and fees, please contact the Connection Fee Counter at (562) 908-4288, extension 2727.

1450 Artesia Acquisition Company LLC, certifies that it has read, understood, and agrees to the Project Conditions listed herein.

_____

1450 Artesia Acquisition Company LLC, Representative

By_____

Dated_____

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RECORDING REQUESTED BY
AND WHEN RECORDED MAIL TO:

CITY CLERK
CITY OF GARDENA
1700 W. 162nd Street
Gardena, California 90247

Space Above Reserved for Recorder's Use

EXEMPT FROM RECORDER'S FEES
Pursuant to Government Code § 6103

DEVELOPMENT AGREEMENT
BY AND AMONG
THE CITY OF GARDENA
AND
1450 ARTESIA ACQUISITION COMPANY LLC

THIS AGREEMENT SHALL BE RECORDED WITHIN TEN DAYS OF EXECUTION BY ALL PARTIES HERETO PURSUANT TO THE REQUIREMENTS OF GOVERNMENT CODE §65868.5.

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DEVELOPMENT AGREEMENT

This Development Agreement ("Agreement") is made and entered into by and among the CITY OF GARDENA, a municipal corporation ("City") and 1450 ARTESIA ACQUISITION COMPANY LLC, a Delaware Limited Liability Corporation authorized to do business in California ("Developer") as of this 11th day of March, 2025. City and Developer are referred to hereinafter individually as "Party" and collectively as "Parties." In consideration of the mutual covenants and agreements contained in this Agreement, City and Developer agree as follows:

1. Definitions. Unless the contrary is stated or clearly appears from the context, the following definitions govern the construction of the words and phrases used in this Agreement. Words and phrases not defined in this Section will have the meaning set forth in this Agreement, the Gardena Municipal Code, or in common usage.

"Applicable Rules" mean:

- The Gardena General Plan, as it existed on the Approval Date, as modified by the Project Approvals;
- The Gardena Municipal Code, as it existed on the Approval Date, as modified by the Project Approvals;
- Such other laws, ordinances, rules, regulations, and official policies governing permitted uses of the property, density, design, improvement, development fees, and construction standards and specifications applicable to the development of the Property in force at the time of the Effective Date, which are not in conflict with this Agreement.

"Approval Date" means March 11, 2025, the date on which the last of the Project Approval applications were approved by the City Council.

"Approved Plans" mean a plan for any aspect of the Project, including, without limitation, the Site Plan, signage plans, and landscaping and irrigation plans, which are approved by the City in accordance with the Applicable Rules, and Project Approvals.

"Building Regulations" means those regulations set forth in Title 15 of the GMC.

"CEQA" means the California Environmental Quality Act, Public Resources Code § 21000 *et seq.*

"CEQA Guidelines" mean the regulations implementing CEQA which have been adopted by the State and found at Title 14 of the California Code of Regulations, § 150000 *et seq.*

"City" means the City of Gardena, a municipal corporation.

"City Council" means the City Council of the City of Gardena.

"Developer" means 1450 Artesia Acquisition Company LLC, a Delaware Limited Liability

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Corporation authorized to do business in California, and its transferees, assigns and successors in interest.

"Development Standards" mean the design and development standards that are applicable to the Project as set forth in the Specific Plan.

"Director" means the Director of Community Development or his designee.

"Effective Date" means the date on which the Enabling Ordinance becomes effective in accordance with Government Code § 36937.

"Enabling Ordinance" means Ordinance No, _____, approving this Development Agreement.

"Future Approvals" mean such subsequent discretionary and ministerial entitlements and permits, which are required to develop the Project in addition to the Project Approvals, and which are applied for by the Developer and approved by the City. Once approved, a Future Approval becomes part of the Project Approvals.

"GMC" means the Gardena Municipal Code.

"Party" means the City or the Developer.

"Parties" shall mean both the City and the Developer.

"Person" means a natural person or any entity.

"Project" means the development of the Property in accordance with the Project Approvals.

"Project Approvals" mean:

- Final Environmental Impact Report (FEIR) No. _____, as certified by Resolution No. _____ on February 25, 2025;
- Mitigation Monitoring and Reporting Program for FEIR No. _____, as certified by Resolution No. _____ on February 25, 2025;
- 1450 Artesia Boulevard Specific Plan No. _____, as adopted by Ordinance No. _____ on March 11, 2025;
- Zone Text Amendment No. _____, as approved by Ordinance No. _____ on March 11, 2025
- Lot Merger and Parcel Map No. _____, as approved by Resolution No. _____ on _____, 2025
- Site Plan Review _____, as approved by Resolution No. ____ on _____, 2025;
- This Development Agreement No. _____, as approved by Ordinance No. _____ on March 11, 2025.

"Property" collectively refers to the approximately 6.34 acres of land located at the

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southwest corner of Artesia and Normandie Boulevards in the City of Gardena, as further described in Exhibit A, attached hereto, and incorporated herein by reference.

"Site Plan" refers to the development plan for the Property as shown on Exhibit B, attached hereto, and incorporated herein by reference.

"Specific Plan" means the 1450 Artesia Specific Plan.

"Subsequent Rules" mean any deletions from or any changes or additions to the Applicable Rules made after the Effective Date, including, without limitation, any change by means of an ordinance, initiative, resolution, policy, order or moratorium, initiated or instituted for any reason whatsoever and adopted by the City Council, the Planning Commission or any other board, agency, commission or department of the City, or any officer or employee thereof, or by the electorate, which would, absent this Agreement, otherwise apply to the Property.

"Term" shall have the same meaning ascribed to it in Section 4.9 hereof.

"Transferee" means a Person who assumes in whole or in part the rights and obligations under this Agreement with respect to all or a portion of the Property.

2. Recitals. This Agreement is made with respect to the following facts and for the following purposes, each of which is acknowledged as true and correct by the Parties:

2.1 Pursuant to Government Code § 65865 *et seq*., the City is authorized to enter into a binding contractual agreement with any person having a legal or equitable interest in real property for the development of such property.

2.2 Developer has a legal or equitable interest in the Property.

2.3 Developer desires to redevelop the Property in accordance with the Project Approvals, the Applicable Rules and this Agreement.

2.4 By this Agreement, each Party desires to obtain the binding agreement of the other Party to develop the Property in accordance with the Project Approvals, the Applicable Rules, and this Agreement. In consideration thereof, the City agrees to limit the future exercise of certain of its governmental and proprietary powers to the extent specified in this Agreement.

2.5 City and Developer have acknowledged and agreed that the consideration that is to be exchanged pursuant to this Agreement is fair, just, and reasonable.

2.6 The Project is consistent with the City's General Plan designation of Specific Plan and the zoning of 1450 Artesia Specific Plan.

2.7 Development of the Project has furthered, and will continue to further, the comprehensive planning objectives contained within the General Plan, and will result in public benefits, including, among others, the following:

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2.7.1 Redevelop an underutilized, blighted and environmentally impacted property with economically vibrant industrial and commercial uses and a state of the art, aesthetically pleasing design and functionality along a major development corridor within the City;

2.7.2 Develop appropriate uses in an area with a legacy of contamination in a manner that protects human health and the environment and allows for continued monitoring of remediated areas;

2.7.3 Produce short-and long-term jobs during the Proposed Project's construction and operations phases;

2.7.4 Generate business license, property and sales tax revenues for the City to enhance its services to the community and infrastructural improvements;

2.7.5 A one-time contribution of one million dollars to the City's General Fund which the City may use for any public purpose benefiting its residents;

2.7.6 Provide the City with space to hold community events;

2.7.7 Develop uses that are compatible with the Project Site's historic industrial operations and surrounding uses along the Artesia Boulevard Corridor;

2.8 On February 4, 2025, the Planning Commission of the City commenced a duly noticed public hearing on the Project Approvals. At the conclusion of the hearing, the Planning Commission recommended that the City Council approve the Project Approvals.

2.9 On February 25, 2025, the City Council commenced a duly noticed public hearing on the Project Approvals. Prior to approving this Agreement by the Enabling Ordinance, the City Council adopted Resolution No. _____ certified the FEIR.

2.10 All of the Property is subject to this Agreement.

3. Binding Effect. The burdens of this Agreement are binding upon, and the benefits of the Agreement inure to, the City and the Developer and each successive Transferee, assign and successor in interest thereto and constitute covenants that run with the land. Any and all rights and obligations that are attributed to the Developer under this Agreement shall run with the land.

3.1 Constructive Notice and Acceptance. Every Person who acquires any right, title, or interest in or to any portion of the Property in which the Developer has a legal interest is, and shall be, conclusively deemed to have consented and agreed to be bound by this Agreement, whether or not any reference to this Agreement is contained in the instrument by which such Person acquired such right, title or interest.

3.2 Rights to Assign and Transfer. Developer may assign or transfer its rights and obligations under this Agreement with respect to the Property, or any portion thereof, to any Person

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at any time during the term of this Agreement without approval of the City. For purpose of this Agreement, the Transferee must be considered the "owner" of that portion of the Property which is covered by such transfer.

3.3 Liabilities Upon Transfer. Upon the delegation of the duties and obligations under this Agreement and the sale, transfer or assignment of all or any portion of the Property, Developer will be automatically released from its obligations under this Agreement with respect to the Property, or portion thereof, so transferred arising prior and subsequent to the effective date of such transfer, if: (i) Developer has provided to the City prior or subsequent written notice of such transfer; and (ii) the Transferee has agreed in writing to be subject to all of the provisions hereof applicable to the portion of the Property so transferred by executing an Assignment and Assumption Agreement in the form of Exhibit C attached hereto and incorporated herein by reference. Upon any transfer of any portion of the Property and the express assumption of Developer's obligations under this Agreement by such Transferee, the City agrees to look solely to the Transferee for compliance by such Transferee with the provisions of this Agreement as such provisions relate to the portion of the Property acquired by such Transferee. Any such Transferee shall be entitled to the benefits of this Agreement as "Developer" hereunder and shall be subject to the obligations of this Agreement applicable to the parcel(s) transferred. A default by any Transferee shall only affect that portion of the Property owned by such Transferee and shall not cancel or diminish in any way Developer's rights hereunder with respect to any portion of the Property not owned by such Transferee. The Transferee shall be responsible for satisfying the good faith compliance requirements set forth in Section 8 below relating to the portion of the Property owned by such Transferee, and any amendment to this Agreement between the City and a Transferee shall only affect the portion of the Property owned by such Transferee.

3.4 Resumption of Rights. If Transferee defaults with respect to any provision of this Agreement, Developer may, but is not obligated to, resume Transferee's obligations upon written notification to City.

4. Development of the Property. The following provisions, in addition to the Applicable Rules, shall govern the development and use of the Property.

4.1 Permitted Uses and Design and Development Standards. The permitted, administratively permitted, and conditionally permitted uses of the Property, as well as the Development Standards, are set forth in the Project Approvals and Applicable Rules.

4.2 Entitlement to Develop. The Developer is granted the vested right to develop the Project subject to the Applicable Rules, the Project Approvals, and any Future Approvals during the Term.

4.3 Building Regulations. Notwithstanding Section 4.4 below, all construction on the Property shall adhere to the Building Regulations in effect at the time an application for a building permit is submitted and to any federal or state building requirements that are then in effect at such time. Additionally, nothing in this Agreement prevents the City from applying "standard specifications" for public improvements (e.g., streets, storm drainage, parking lot standards,

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driveway widths), as the same may be adopted or amended from time to time by the City, provided that the provisions of any such standards and specifications apply only to the extent they are in effect on a Citywide basis and so long as they do not conflict with the provisions of the Project Approvals and this Agreement.

4.4 Subsequent Rules. Subsequent Rules cannot be applied by the City to any part of the Property unless the Developer gives the City written notice of its election to have a Subsequent Rule applied to the Property, in which case such Subsequent Rule is deemed to be an Applicable Rule.

4.5 Fees, Exactions, Mitigation Measures, Conditions, Reservations and Dedications.

4.5.1 Subject to Sections 4.5.2 and 4.5.3 of this Agreement, all fees, exactions, mitigation measures, conditions, reservations, and dedications of land for public purposes that are applicable to the Project are set forth in the Applicable Rules, the Project Approvals, and this Agreement.

4.5.2 Except as otherwise provided in this Agreement, and specifically excluding fees set by entities not controlled by the City that are collected by the City, the City can only charge and impose those fees and exactions, including, without limitation, dedication and any other fee relating to development or the privilege of development, which are in effect on a City-wide basis as of the Effective Date.

4.5.3 This Section 4.5 shall not be construed to limit the authority of the City to charge normal and customary application, processing, and permit fees, including legal and environmental processing costs, for land use approvals, building permits and other similar permits, for Future Approvals, which fees are designed to reimburse City's actual expenses attributable to such application, processing and permitting and are in force and effect on a City-wide basis at such time as applications for such approvals are filed with the City. Notwithstanding any term to the contrary in this Section 4.5.3, the Developer shall not be required to pay any new impact fees that are not in effect on the Effective Date.

4.6 Use of Easements. Notwithstanding the provisions of the Applicable Rules, easements dedicated for vehicular and pedestrian use shall be permitted to include easements for underground drainage, water, sewer, gas, electricity, telephone, cable, and environmental remediation and other utilities and facilities so long as they do not unreasonably interfere with pedestrian and/or vehicular use.

4.7 Timing of Development. In *Pardee Construction Co. v. City of Camarillo* (*Pardee*), 37 Cal.3d 465 (1984), the California Supreme Court held that the failure of the parties therein to provide for the timing or rate of development resulted in a later-adopted initiative restricting the rate of development to prevail against the parties' agreement. City and Developer intend to avoid the result in *Pardee* by acknowledging and providing that Developer shall have the right, without obligation, to develop the Property in such order and at such rate and times as Developer deems appropriate within the exercise of its subjective business judgment subject to the terms of this

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Agreement.

In furtherance of the Parties' intent, as set forth in this Section, no future amendment of any existing City ordinance or resolution, or future adoption of any ordinance, resolution, or other action, that purports to limit the rate or timing of development over time or alter the sequencing of development phases, whether adopted or imposed by the City Council or through the initiative or referendum process, shall apply to the Property. However, nothing in this Section shall be construed to limit City's right to enforce Developer's obligation pursuant to this Agreement to provide any infrastructure required by the Project Approvals and this Agreement.

4.8 Moratorium.

4.8.1 The City shall not impose a moratorium on the Property unless such is necessary to protect a significant threat to the immediate health, safety and welfare of the City based on substantial evidence in the record; provided, however, that: (i) any such moratorium shall last only as long as necessary to eliminate or prevent such a threat and shall terminate upon the elimination or termination of such a threat, and (ii) the Term (as defined in Section 4.9 hereof), including any extension thereof under Section 4.9 hereof, shall extend for a period of time equal to the duration of any such moratorium imposed.

4.8.2 Except as provided in Section 4.8.1 above, no City-imposed moratorium or other limitation (whether relating to the rate, timing or sequencing of the development or construction of all or any part of the Property, whether imposed by ordinance, initiative, resolution, policy, order or otherwise, and whether enacted by the City Council, an agency of the City, the electorate or otherwise) affecting parcel or subdivision maps (whether tentative, vesting tentative, or final), building permits, occupancy certificates, or other entitlements to use or service (including, without limitation, water and sewer), approved, issued or granted within the City, or portions of the City, applies to the Property to the extent such moratorium or other limitation is in conflict with this Agreement. However, the provisions of this Section do not affect the City's compliance with moratoria or other limitations mandated by federal or state governmental agencies or court-imposed moratoria or other limitations.

4.9 Term. This Agreement shall be in effect for a period of ten (10) years from the Effective Date of the Enabling Ordinance. However, the Developer or the City shall be entitled to, by written notice to the other Party prior to the Agreement's expiration, one (1) five-year (5-year) administrative extension, provided that the requesting Party is not in material default of this Agreement at such time beyond any applicable period to cure provided for by Sections 8.5 and 10 below. Before the expiration of the five-year (5-year) extension, the Parties may mutually agree to further extensions. In the event of litigation challenging this Agreement, the Term is automatically suspended for the duration of such litigation and resumes upon final disposition of such challenge and any appeal thereof upholding the validity of this Agreement. In the event that a referendum petition concerning this Agreement is duly filed in such a manner that the ordinance approving this Agreement is suspended, then the Term is deemed to commence upon City Council certification of the results of the referendum election approving this Agreement.

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4.10 Term of Map(s) and Other Project Approvals. Pursuant to California Government Code Sections 66452.6(a) and 65863.9, the term of the site plan review and tract map and any other subdivision or map that has been or in the future may be processed on all or any portion of the Property and the term of each of the Project Approvals shall be extended for a period of time through the scheduled termination date of this Agreement as set forth in Section 4.9 above, including any extensions thereto.

4.11 Future Approvals. Applications for Future Approvals will be processed by the City in accordance with the City procedural rules under the Applicable Rules. The City may deny an application for a Future Approval only if such application does not substantially comply with this Agreement or the Applicable Rules (provided, however, that inconsistency with the Project Approvals shall not constitute grounds for denial of a Future Approval which is requested by the Developer as an amendment to that Project Approval). The City may approve an application for such a Future Approval subject to any conditions necessary to bring the Future Approval into compliance with this Agreement or the Applicable Rules, or as necessary to make this Future Approval consistent with the Project Approvals. If the City denies any application for a Future Approval, the City must specify in writing the reasons for such denial, the City shall have substantial evidence supporting such a denial, and it may suggest a modification which would be approved. Any such specified modifications must be consistent with this Agreement and the Applicable Rules, including the Project Approvals, and the City shall approve the application if it is subsequently resubmitted for the City review and addresses the reason for the denial in a manner that is consistent with this Agreement and the Applicable Rules, including the Project Approvals

4.11.1 Minor Modifications to Project. The Developer may make minor changes to the Project and Project Approvals ("Minor Modifications") without the need to amend this Agreement upon the administrative approval of the Director.

(a) Minor Modifications include:

(i) A modification to the Site Plan, provided the Director determines, in his/her discretion, that the Site Plan is substantially similar to the approved Site Plan attached hereto as Exhibit B and complies with the Specific Plan; and there is no change which would qualify as a Major Modification under Section 4.11.2 below;

(ii) A "minor" modification to the Specific Plan as identified in Section 8.6 thereof; and

(iii) any other change that does not qualify as a Major Modification as defined below.

(b) The City shall not unreasonably withhold or delay approval of any Minor Modification. The City shall have the right to impose reasonable conditions in connection with Minor Modifications, provided, however, such conditions shall not be inconsistent with the Applicable Rules, the Project Approvals or with the development of the Project as contemplated by this Agreement.

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(c) A Minor Modification approved by the City shall continue to constitute a Project Approval as referenced herein.

4.11.2 Modifications Requiring Amendment to this Agreement. Any proposed modification to the Project which results in any of the following shall constitute a Major Modification, and shall require an amendment to this Agreement pursuant to Section 14 below:

(a) Any change which constitutes a "significant" modification to the Specific Plan as identified in Section 8.6 thereof; or

(b) Any change which creates a new significant environmental impact which cannot be mitigated to a level of insignificance.

4.12 Site Plan Review. Any change to the site plan shall require Site Plan Review approval in accordance with Chapter 18.44 of the Gardena Municipal Code unless any such change constitutes a Minor Modification under Section 4.11.1.(a)(i) hereof.

4.13 Issuance of Building Permits. No building permit, final inspection or Certificate of Occupancy will be unreasonably withheld, conditioned, or delayed from the Developer if all infrastructure required to serve the portion of the Property covered by the building permit, final inspection, or Certificate of Occupancy is in place or is suitably guaranteed to be completed (by covenant, bond, letter of credit or otherwise) to the reasonable satisfaction of the City prior to completion of construction and all of the other relevant provisions of the Project Approvals, Future Approvals and this Agreement have been satisfied.

5. Developer Agreements.

5.1 General. The Developer shall comply with: (i) this Agreement; (ii) the Project Approvals, including, without limitation, all mitigation measures required by the determination made pursuant to CEQA; and (iii) all Future Approvals for which it is the applicant or a successor in interest to the applicant.

5.1.1 In the event that any of the mitigation measures or conditions required of Developer hereunder have been implemented by others, Developer shall be conclusively deemed to have satisfied such mitigation measures or conditions consistent with CEQA. If any such mitigation measures or conditions are rejected by a governmental agency with jurisdiction, the Developer may implement reasonably equivalent substitute mitigation measures or conditions consistent with CEQA, to the City's satisfaction, in lieu of the rejected mitigation measures or conditions. Such substitution shall be deemed to be a Minor Modification pursuant to Section 4.11.1 above.

5.2 Development Fees. No City development fees apply to the Project, and no development impact fees that the City may adopt during the Term shall apply to the Project.

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5.3 Maintenance Obligations. The Developer shall maintain all portions of the Property in its possession or control, and any improvements thereon, in a first class clean, neat, and orderly manner. The Parties' respective maintenance obligations shall survive any termination or expiration of this Agreement, except that Developer's maintenance obligations shall terminate upon a transfer of its complete interest in the Property to a third party, whereupon the maintenance obligation becomes an obligation of the third party acquiring that interest.

5.4 Sales and Use Tax.

5.4.1 In the event the contract price for any work on the Project is valued at five million dollars ($5,000,000) or more, Developer agrees to report, on a State Board of Equalization Tax Return, any purchases of tangible personal property made in connection with the finishing of and/or installation of materials, or fixtures for the Project, when such purchases were made without sales or use tax due. Developer shall indicate the City as a registered job site location on the State Board of Equalization Tax Return. In such event, Developer shall also obtain a permit or a sub-permit from the State Board of Equalization indicating the City as the registered job site location, in accordance with Revenue and Taxation Code § 7051.3 or State Board of Equalization Compliance Policy and Procedure Manual § 295.060.

5.4.2 Developer further agrees that, if Developer retains contractors or subcontractors to perform a portion of work in the Project, and said contracts or subcontracts are valued at five million dollars ($5,000,000) or more, said contracts or subcontracts shall contain the provisions set forth in Section 5.5.1, above.

5.4.3 The Director of Finance of the City is authorized to relieve Developer and Developer's contractors and subcontractors, from the requirements set forth in this Section 5.5 upon proof to the reasonable satisfaction of the Director of Finance that Developer and/or its contractors or subcontractors have made good faith efforts to obtain said permit or sub-permits, but were denied the same by the State Board of Equalization.

5.5 Public Benefits. Developer agrees to provide the following public benefits to the City in consideration of the City entering into this Development Agreement:

5.5.1 Local Hire. Developer shall use best efforts to hire locally-based construction workers as set forth in the Local Hiring Plan attached hereto as Exhibit D.

5.5.2 One-Time Payment. Developer shall make a one-time payment to the City in the amount of one million dollars ($1,000,000) which money shall be used for any public purpose deemed desirable by the City Council. Payment shall be made prior to Developer receiving a certificate of occupancy for any part of the building.

5.5.3. Use of Premises for Special Events. Developer shall allow the City to make use of an approximately 36,000 square foot portion of the property as depicted on Exhibit E attached hereto (the "Special Event Area") for special events ("Special Events") to be held approximately two to three times per month which shall not exceed 36 times per year, and limited

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to Saturday and Sunday events between 7 AM and 10 PM with expected attendance up to 250 attendees; clean-up may take place after 10 PM. City shall not permit any attendee, City elected or appointed official or employee, contractor, vendor or any other person present at any of such Special Events to: (i) interfere with or disrupt the business operations or use of the Property by Developer, any of its tenants, or any principal, officer, manager, employee, invitee, vendor or contractor of Developer or any of its tenants, (ii) interfere or tamper with, damage, impair or alter any of the elements or features of the Final Remedial Action Plan approved by the California Department of Toxic Substances Control on July 17, 2022, or (iii) park any vehicle in any of the Property's parking spaces or in any other area of the Property outside of the Special Event Area as depicted on Exhibit E. The Parties shall enter into an agreement that provides the terms and conditions for providing access to Special Events substantially in the form of Exhibit F attached hereto (the "Access Agreement"), which access shall commence upon issuance of a certificate of occupancy. The terms and conditions of Special Events in this Section 5.5.3 may be modified in writing upon the mutual agreement by City and Developer and the approval of the Director as a Minor Modification pursuant to Section 4.11.1 hereof. City shall provide Developer and each of its tenants a minimum of fourteen (14) calendar days' notice of its intent to hold a Special Event so that Developer may coordinate with its tenants to make sure that business operations do not interfere with the City's Special Events. The City shall be responsible for sponsoring, securing, and monitoring Special Events. Security and public services during Special Events shall be the City's responsibility. This subsection 5.5.3 shall survive termination of this Development Agreement subject to the terms and conditions of the Access Agreement.

5.5.3.1 During the time of the Special Events, truck traffic to the distribution/warehouse use will be rerouted so that trucks will not have access to the eastern and northern portion of the circulation lanes. The City shall be required to install a temporary barrier prohibiting such use and requiring trucks to exit in the direction that they entered.

5.5.3.2 During the time of the Special Events, the City may install temporary physical barriers to prevent vehicles from entering the drive aisles near the Special Events, provided that access is still provided to the parking areas for the self-storage uses.

5.5.3.3 Developer shall construct a 10 foot by 20 foot storage building of 200 square feet for City storage use of all items related to the special events including barricades, tables and chairs at no cost to the City. City shall provide, pay and be solely responsible for all such items, except that Developer shall maintain this storage space in a manner that prevents damage to such items while stored in this storage space. Developer shall bear no responsibility or liability for maintaining, repairing or replacing any such item stored in this storage space. The storage area shall be built in the general location as shown on Exhibit E, shall be slab on grade, built out of CMU, and equipped with a steel door and LED motion sensor lights on the inside. The building shall be designed to be compatible with the Project. The final plans shall be reviewed and approved by the Director of Community Development. Developer shall be responsible for the long-term maintenance of the storage area. This provision shall survive the term of this Development Agreement and shall be subject to the terms and conditions of the Access Agreement.

6. City Agreements.

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6.1 Expedited Processing. The City shall process for review and approval, at Developer's expense, in an expedited manner, all applications or requests for plan checking, excavation, grading, building, encroachment and street improvement permits, inspections and Certificates of Occupancy, utility connection authorizations, and other ministerial permits or approvals necessary, convenient or appropriate for the grading, excavation, construction, development, improvement, use and occupancy of the Project. Without limiting the foregoing, if requested by Developer and at Developer's expense, the City agrees to utilize private plan checkers in addition to those already under contract with the City and any other available means to expedite the processing of Project applications, including concurrent processing of such applications by various City departments.

6.2 Processing Cooperation and Assistance. To the extent permitted by law, the City shall reasonably cooperate with the Developer in securing any and all entitlements, authorizations, permits or approvals which may be required by any other governmental or quasi-governmental entity in connection with the development of the Project or the Property. Without limiting the foregoing, the City shall reasonably cooperate with the Developer in any dealings with federal, state and other local governmental and quasi-governmental entities concerning issues affecting the Property. The City shall keep the Developer fully informed with respect to its communications with such agencies which could impact the development of the Property. The City must not take any actions to encourage any other governmental or quasi-governmental entities from withholding any necessary approvals and any such contrary actions on the part of the City must be considered a breach of this Agreement by City.

6.3 Processing During Third-Party Litigation. The filing of any third-party lawsuit(s) against the City or the Developer relating to this Agreement, the Project Approvals, any Future Approvals or to other development issues affecting any portion of the Property or the Project shall not hinder, delay or stop the development, processing or construction of the Project, approval of the Future Approvals, or issuance of ministerial permits or approvals, unless the third party obtains a court order restraining the activity. The City shall not stipulate to or cooperate in the issuance of any such order.

6.4 Performance of Director Duties. The City shall ensure that a person or persons are designated at all times to carry out the duties of the Director set forth in this Agreement.

6.5 No Amendment to Specific Plan. The City shall not initiate any amendment to the Specific Plan during the Term of this Agreement without the Developer or its successor's written agreement and consent.

7. Modification/Suspension.

7.1 Pursuant to Government Code Section 65869.5, in the event that any state or federal law or regulation, enacted after the Effective Date, precludes compliance with any provision of this Agreement, such provision shall be deemed modified or suspended to the extent practicable to comply with such state or federal law or regulation, as reasonably determined necessary by City. Upon repeal of said law or regulation or the occurrence of any other event removing the effect

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thereof upon the Agreement, the provisions hereof shall be restored to their full original effect.

7.2 In the event any state or federal resources agency (such as California Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Regional Water Quality Control Board/State Water Resources Control Board or other agencies), in connection with its final issuance of a permit or certification for all or a portion of the Project, imposes requirements ("Permitting Requirements") that require modifications to the Project, then the Parties will work together in good faith to incorporate such changes into the Project; provided, however, that if Developer appeals or challenges any such Permit Requirements, then the Parties may defer such changes until the completion of such appeal or challenge.

8. Demonstration of Good Faith Compliance.

8.1 Review of Compliance. In accordance with Government Code Section 65865.1, this Section 8 and the Applicable Rules, once each year, on or before each anniversary of the Effective Date ("Periodic Review"), the Director shall review the extent of the Developer's good faith substantial compliance with the terms and provisions of this Agreement, as well as the performance by the City of its obligations under this Agreement.

8.2 Good Faith Compliance. During each Periodic Review, the Developer shall demonstrate by written status report that, during the preceding twelve-month (12-month) period ("Review Period"), that it has been in good faith compliance with this Agreement. For purposes of this Agreement, the phrase "good faith compliance" shall mean that the Developer has demonstrated that it has acted in a commercially reasonable manner (taking into account the circumstances which then exist) and in good faith in and has substantially complied with the Developer's material obligations under this Agreement.

8.3 City Report - Information to be Provided to Developer. At least fourteen (14) days before each annual anniversary of the Effective Date, the City shall deliver to the Developer a copy of all staff reports prepared in connection with a Periodic Review, any prior staff reports generated during the Review Period, written comments from the public, and, to the extent practical, all related exhibits concerning such Periodic Review. This information shall be known as the "City Report."

8.4 Developer's Report. No later than the annual anniversary of the Effective Date, Developer must submit a written status report to the Director addressing the good faith compliance issue set forth in Section 8.2 above and any issues raised by the City Report provided to the Developer in accordance with Section 8.3 above.

8.5 Notice of Non-Compliance; Cure Rights. If, after reviewing the Developer's Report, the Director reasonably concludes, on the basis of substantial evidence, that as to any parcel or parcels comprising the Property, Developer has not demonstrated that it is in good faith compliance with this Agreement, the Director may issue and deliver to the Developer a written Notice of Violation as set forth in Section 10 below.

8.6 Public Notice of Finding. Any appeal of the Director's determination pursuant to

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Section 8.5 (including any appeal by the Developer) must be filed within thirty (30) days following such decision. Filing such an appeal tolls the cure period specified in the Notice of Violation. Notwithstanding Section 13.1, an appeal regarding the Notice of Violation shall be heard directly by the City Council at a duly-noticed public hearing and the City Council must issue a final decision. Developer retains the right to challenge the City's issuance of any final decision pursuant to Code of Civil Procedure § 1094.5 without complying with the procedures set forth in Section 10.4 below.

8.7 Failure of Periodic Review. The City's failure to review, at least annually, compliance by the Developer with the terms and conditions of this Agreement shall not constitute or be asserted by any Party as a breach by any other Party of this Agreement. If the City fails to provide the City Report by fourteen (14) days before each annual anniversary of the Effective Date, Developer will be deemed to be in good faith compliance with this Agreement for that Review Period.

9. Excusable Delays. Performance by any Party of its obligations hereunder shall be excused during any period of "Excusable Delay," as hereinafter defined, provided that the Party claiming the delay gives notice of the delay to the other Party as soon as reasonably possible after the same has been ascertained. For purposes hereof, Excusable Delay shall mean delay that directly affects, and is beyond the reasonable control of, the Party claiming the delay, including, without limitation: (i) act of God; (ii) civil commotion; (iii) riot; (iv) strike, picketing or other labor dispute; (v) shortage of materials or supplies; (vi) damage to work in progress by reason of fire, flood, earthquake or other casualty; (vii) reasonably unforeseeable delay caused by a reasonably unforeseeable restriction imposed or mandated by a governmental entity; (viii) litigation brought by a third-party attacking the validity of this Agreement, a Project Approval, a Future Approval or any other action necessary for development of the Property; (ix) delays caused by any breach or default by City or the Developer hereunder; (x) delays due to a pandemic and/or government mandated quarantine; or (xi) delays due to the presence or remediation of hazardous materials. The Term of this Agreement, including any extensions, shall be extended by any period of Excusable Delay.

10. Default Provisions.

10.1 Default. Either Party to this Agreement shall be deemed to be in "Default" under this Agreement if it materially breaches any of the provisions of this Agreement and the same is not cured within the time set forth in a written notice of violation (the "Notice of Violation") from the non-breaching Party to the breaching Party, which period of time shall not be less than twenty (20) days for monetary breaches, and not less than sixty (60) days for non-monetary breaches from the date that the notice is deemed received, provided if the breaching Party cannot reasonably cure a non-monetary breach within the time set forth in the notice, then the breaching Party shall not be in Default if it commences to cure the breach within such time limit and diligently effects such cure thereafter. If the City determines that a Default by Developer may have occurred, the City shall give written notice to the Developer of its intention to terminate this Agreement and comply with the notice and public hearing requirements of Government Code Sections 65867 and 65868. At the time and place set for the hearing on termination, the Developer shall be given an

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opportunity to be heard. If the City Council finds, based upon the evidence, that the Developer is in Default under this Agreement, the City Council may modify or terminate this Agreement. If Developer initiates a resolution of dispute in accordance with the provisions of Section 10.4 below within sixty (60) days following the City Council's determination that Developer is in Default under this Agreement, the City Council's decision to modify or terminate this Agreement is stayed until the issue has been resolved through informal procedures, mediation, or court proceedings.

10.2 Content of Notice of Violation. Every Notice of Violation shall state with specificity that it is given pursuant to this Section of the Agreement, the nature of the alleged breach (including references to the pertinent provisions of this Agreement), the portion of the Property involved, and the manner in which the breach may be satisfactorily cured. The notice shall be deemed given in accordance with Section 19 hereof.

10.3 Remedies for Default. The Parties agree that upon a default by a Party the other Party shall have all rights and remedies provided herein or by applicable law, which shall include but not be limited to compelling the specific performance of the defaulting Party's obligations under this Agreement, provided that the non-defaulting Party complies with the Notice of Violation requirements in Sections 10.1 and 10.2 hereof. No modification or termination of this Agreement pursuant to Section 10.1 hereof shall invalidate or affect in any manner any of the other Project Approvals.

10.4 Resolution of Disputes. The City and the Developer agree to attempt to settle any claim, dispute or controversy arising from this Agreement through consultation and negotiation in good faith and in spirit of mutual cooperation. If those attempts fail, the dispute may be mediated by a mediator chosen jointly by the City and the Developer within thirty (30) days after notice by one of the parties demanding non-binding mediation. Neither Party may unreasonably withhold consent to the selection of a mediator. The City and the Developer will share the cost of the mediation equally. The Parties may agree to engage in some other form of non-binding alternate dispute resolution ("ADR") procedure in lieu of mediation. Any dispute that cannot be resolved between the Parties through negotiation or mediation within two (2) months after the date of the initial demand for non-binding mediation may then be submitted to a court of competent jurisdiction in the County of Los Angeles, California.

10.5 Attorney's Fees and Costs. Each Party to this Agreement agrees to waive any entitlement of attorney's fees and costs incurred with respect to any dispute arising from this Agreement. The parties will each bear their own attorney's fees and costs in the event of any dispute.

11. Mortgagee Protection. This Agreement shall not prevent or limit the Developer, in any manner, at Developer's sole discretion, from encumbering the Property or any portion thereof or any improvements thereon by any mortgage, deed of trust or other security device. The City acknowledges that the lender(s) providing such financing ("Mortgagee") may require certain Agreement interpretations and agrees, upon request, from time to time, to meet with the Developer and representatives of such lender(s) to provide within a reasonable time period the City's response to such requested interpretations. The City will not unreasonably withhold its consent to any such

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requested interpretation, provided that such interpretation is consistent with the intent and purposes of this Agreement. Any Mortgagee of a mortgage or a beneficiary of a deed of trust or any successor or assign thereof, including, without limitation, the purchaser at a judicial or non-judicial foreclosure sale, or a person or entity who obtains title by deed-in-lieu of foreclosure on the Property shall be entitled to the following rights and privileges:

11.1 Mortgage Not Rendered Invalid. Neither entering into this Agreement nor a breach of or Default under this Agreement shall defeat, render invalid, diminish, or impair the priority of the lien of any mortgage or deed of trust on the Property made in good faith and for value. No Mortgagee shall have an obligation or duty under this Agreement to perform the Developer's obligations, or to guarantee such performance, prior to Mortgagee taking title to all or a portion of the Property.

11.2 Request for Notice to Mortgagee. The Mortgagee of any mortgage or deed of trust encumbering the Property, or any part thereof, who has submitted a request in writing to the City in the manner specified herein for giving notices, shall be entitled to receive a copy of any Notice of Violation delivered to the Developer.

11.3 Mortgagee's Time to Cure. The City shall provide a copy of any Notice of Violation to the Mortgagee that has requested such copy within ten (10) days of sending the Notice of Violation to the Developer. The Mortgagee shall have the right, but not the obligation, to cure the specified breach for a period of sixty (60) days after receipt of such Notice of Violation, or such longer period of time as may be specified in the Notice. Notwithstanding the foregoing, if such breach shall be a breach which can only be remedied by such Mortgagee obtaining possession of the Property, or any portion thereof, and such Mortgagee seeks to obtain possession, such Mortgagee shall have until sixty (60) days after the date of obtaining such possession to cure or, if such breach cannot reasonably be cured within such period, to commence to cure such breach, provided that such breach is cured no later than one (1) year after Mortgagee obtains such possession of the Property.

11.4 Cure Rights. Any Mortgagee who takes title to all of the Property, or any part thereof, pursuant to foreclosure of the mortgage or deed of trust, or a deed in lieu of foreclosure, shall succeed to the rights and obligations of the Developer under this Agreement as to the Property or portion thereof so acquired; provided, however, in no event shall such Mortgagee be liable for any breaches, Defaults, or monetary obligations of the Developer arising prior to acquisition of title to the Property by such Mortgagee, except that any such Mortgagee shall not be entitled to a new building permit or new occupancy certificate until all delinquent and current fees and other monetary or non-monetary obligations due under this Agreement for the Property, or portion thereof acquired by such Mortgagee, have been satisfied.

11.5 Bankruptcy. If any Mortgagee is prohibited from commencing or prosecuting foreclosure or other appropriate proceedings in the nature of foreclosure by any process or injunction issued by any court or by reason of any action by any court having jurisdiction of any bankruptcy or insolvency proceedings involving the Developer, the times specified in Section 10 above shall be extended for the period of the prohibition, except that any such extension shall not

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extend the Term of this Agreement.

11.6 Disaffirmation. If this Agreement is terminated as to any portion of the Property by reason of (i) any Default, or (ii) as a result of a bankruptcy proceeding, and this Agreement is disaffirmed by a receiver, liquidator, or trustee for the Developer or its property, the City, if requested by any Mortgagee, shall negotiate in good faith with such Mortgagee for a new development agreement for the Project as to such portion of the Property with the most senior Mortgagee requesting such new agreement. This Agreement does not require any Mortgagee or the City to enter into a new development agreement pursuant to this Section.

12. Estoppel Certificate. At any time and from time to time, the Developer may deliver written notice to City and City may deliver written notice to the Developer requesting that such Party certify in writing that, to the knowledge of the certifying Party: (i) this Agreement is in full force and effect and a binding obligation of the Parties; (ii) this Agreement has not been amended, or if amended, the identity of each amendment; and (iii) the requesting Party is not in breach of this Agreement, or if in breach, a description of each such breach. The Party receiving such a request shall execute and return the certificate within thirty (30) days following receipt of the notice. The failure of the City to deliver such a written notice within such time shall constitute a conclusive presumption against the City that, except as may be represented by the Developer, this Agreement is in full force and effect without modification, and that there are no uncured breaches or Defaults in the performance of the Developer. The Director shall be authorized to execute, on behalf of the City, any Estoppel Certificate requested by the Developer. City acknowledges that a certificate may be relied upon by successors in interest to the Developer who requested the certificate and by holders of record of deeds of trust on the portion of the Property in which that Developer has a legal interest.

13. Administration of Agreement.

13.1 Appeal of Staff Determinations. Any decision by City staff concerning the interpretation or administration of this Agreement or development of the Property in accordance herewith may be appealed by the Developer to the Planning Commission, and thereafter, if necessary, to the City Council pursuant to the Gardena Municipal Code. The Developer shall not seek judicial review of any staff decision without first having exhausted its remedies pursuant to this Section. Final determinations by the City Council are subject to judicial review subject to the restrictions and limitations of California law.

13.2 Operating Memoranda. The provisions of this Agreement require a close degree of cooperation between City and Developer. During the Term of this Agreement, clarifications to this Agreement and the Applicable Rules may be appropriate with respect to the details of performance of City and Developer. If and when, from time to time, during the term of this Agreement, City and Developer agree that such clarifications are necessary or appropriate, they shall effectuate such clarification through a memorandum approved in writing by City and Developer (the "Operating Memoranda"), which, after execution, shall be attached hereto and become part of this Agreement and the same may be further clarified from time to time as necessary with future written approval by City and the Developer. Operating Memoranda are not

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intended to and shall not constitute an amendment to this Agreement but are mere ministerial clarifications, therefore, public notices and hearings are not required. The City Attorney shall be authorized, upon consultation with, and approval of, the Developer, to determine whether a requested clarification may be effectuated pursuant to this Section or whether the requested clarification is of such character to constitute an amendment hereof which requires compliance with the provisions of Section 14 below. The authority to enter into such Operating Memoranda is hereby delegated to the Director, and the Director is hereby authorized to execute any Operating Memoranda hereunder without further City Council action. A minor change to the Specific Plan as set forth in Section 8.6 thereof does not require an amendment to this Agreement.

13.3 Certificate of Performance. Upon the completion of the Project, or the completion of development of any parcel within the Project, or upon completion of performance of this Agreement or its earlier revocation and termination, the City shall provide the Developer, upon the Developer's request, with a statement ("Certificate of Performance") evidencing said completion or revocation and the release of the Developer from further obligations hereunder, except for any ongoing obligations hereunder. The Certificate of Performance shall be signed by the appropriate agents of the Developer and the City and shall be recorded in the official records of Los Angeles County, California. Such Certificate of Performance is not a notice of completion as referred to in California Civil Code § 3093.

14. Amendment or Termination by Mutual Consent. Except as otherwise set forth herein, this Agreement may only be amended or terminated, in whole or in part, by mutual written consent of City and the Developer, and upon compliance with the provisions of Government Code § 65867.

15. Indemnification/Defense.

15.1 Indemnification. The Developer agrees to indemnify and hold the City harmless from and against any claim, action, damages, costs (including, without limitation, attorney's fees), injuries, or liability, arising from the City's approval of the Project, this Agreement, Developer's performance of this Agreement, and all procedures with approving this Agreement (collectively, "Discretionary Approvals"), except to the extent such is a result of: (i) any claims arising from or in connection with Special Events that are not due to Developer's sole negligence or intentional misconduct, or (ii) the City's sole negligence or intentional misconduct. Should the City be named in any suit, or should any claim be brought against it by suit or otherwise, whether the same be groundless or not, arising out of the Discretionary Approvals, Developer agrees to defend the City (at the City's request and with counsel satisfactory to the City) and will indemnify the City for any judgment rendered against it or any sums paid out in settlement or otherwise, except to the extent such action is a result of the City's sole negligence or intentional misconduct. For purposes of this Section, "the City" includes the City of Gardena's elected officials, appointed officials, officers, consultants, and employees.

15.2 Defense of Agreement. If the City accepts Developer's indemnification and defense as provided in Section 15.1 above, the City agrees to and shall timely take all actions which are necessary or required to uphold the validity and enforceability of this Agreement, the Discretionary Approvals, Project Approvals, Development Standards, and the Applicable Rules.

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16. Cooperation in the Event of Legal Challenge.

16.1 Third-Party Challenges. In the event of any administrative, legal, or equitable action or other proceeding instituted by any person or entity not a party to the Agreement challenging the validity of any provision of this Agreement, challenging any Approval, or challenging the sufficiency of any environmental review of either this Agreement or any Approval under CEQA (each a "Third-Party Challenge"), each party must cooperate in the defense of such Third-Party Challenge, in accordance with this Section. Developer agrees to pay City's costs of defending a Third-Party Challenge, including all court costs and reasonable attorney's fees expended by City (including the time and cost of the City Attorney so long as the City Attorney is not an employee of the City) in defense of any Third-Party Challenge. Developer may select its own legal counsel to represent Developer's interests in any Third-Party Challenge at Developer's sole cost and expense. City agrees that it will not enter into a settlement agreement to any Third-Party Challenge without Developer's written consent. Developer's obligation to pay City's costs in the defense of a Third-Party Challenge shall not extend to those costs incurred on appeal, if Developer notifies the City is writing that it does not wish to pursue the appeal.

16.2 Third-Party Challenges Related to the Applicability of City Laws. The provisions of this Section will apply only in the event of a legal or equitable action or other proceeding, before a court of competent jurisdiction, instituted by any person or entity not a party to the Agreement challenging the applicability to the Project or Property of a conflicting City Law (a "Third-Party Enforcement Action"):

16.2.1 In the event of a Third-Party Enforcement Action, City must: (i) promptly notify Developer of such action or proceeding; and (ii) stipulate to Developer's intervention as a party to such action or proceeding unless Developer has already been named as a respondent or real party in interest to such action or proceeding. In no event will City take any action that would frustrate, hinder, or otherwise complicate Developer's efforts to intervene, join or otherwise participate as a party to any Third-Party Enforcement Action. As requested by Developer, City must use its best efforts to ensure that Developer is permitted to intervene, join or otherwise participate as a party to any Third-Party Enforcement Action. If, for any reason, Developer is not permitted to intervene, join or otherwise participate as a party to any Third-Party Enforcement Action, the parties to this Agreement agree to cooperate, to the maximum extent permitted by law, in the defense of such action or proceeding. For purposes of this Section, the required cooperation between the parties includes, without limitation, developing litigation strategies, preparing litigation briefs and other related documents, conferring on all aspects of the litigation, developing settlement strategies, and, to the extent permitted by law, jointly making significant decisions related to the relevant litigation, throughout the course thereof.

16.2.2 City's costs of defending any Third-Party Enforcement Action, including all court costs, and reasonable attorney's fees expended by City (including the time and cost of the City Attorney so long as the City Attorney is not an employee of the City) in defense of any Third-Party Enforcement Action (the "Enforcement Action Defense Costs"), will be paid in accordance with this Agreement. The Enforcement Action Defense Costs shall extend to, and Developer will be obligated to pay, any costs incurred on appeal unless Developer notifies the City in writing that

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it does not wish to pursue the appeal.

16.2.3 City must not enter into a settlement agreement or take any other action to resolve any Third Party Enforcement Action without Developer's written consent. City cannot, without Developer's written consent, take any action that would frustrate, hinder or otherwise prevent Developer's efforts to settle or otherwise resolve any Third-Party Enforcement Action.

16.2.4 Provided that City complies with this Section and provided that Developer is a party to the relevant Third-Party Enforcement Action, Developer agrees to be bound by any final judgment (i.e., following all available appeals) arising out of a Third-Party Enforcement Action and further agrees that no default under this Agreement will arise if such final judgment requires City to apply to the Project or Project Site a City Law that conflicts with Applicable Law or this Agreement.

17. Time of Essence. Time is of the essence for each provision of this Agreement of which time is an element.

18. Effective Date. This Agreement shall become operative on the date the Enabling Ordinance approving this Development Agreement becomes effective (the "Effective Date") pursuant to Government Code Section 36937.

19. Notices. Any notice that a party is required or may desire to give the other must be in writing and may be sent by: i) personal delivery; or ii) by deposit in the United States mail, postage paid, registered or certified mail, return receipt requested; or iii) by overnight delivery using a nationally recognized overnight courier, providing proof of delivery; or iv) by facsimile, evidenced by confirmed receipt; or v) by electronic delivery, evidenced by confirmed receipt, addressed as follows:

If to City:
City of Gardena
1700 W. 162nd Street
Gardena, CA 90247
Attention: City Manager
Phone: 310-217-9503
E-mail: cosorio@cityofgardena.org

With a Copy to:
City of Gardena
1700 W. 162nd Street
Gardena, CA 90247
Attention: Community Development Director
Phone: 310-217-9546
E-mail: gtsujiuchi@cityofgardena.org

With a Copy to:
City Attorney's Office
1700 W. 162nd Street
Gardena, CA 90247

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Attention: Carmen Vasquez and Lisa Kranitz
Phone: 310-217-9503
E-mail: lkranitzlaw@gmail.com
cv@jones-mayer.com

If to Developer: 1450 Artesia Acquisition Company LLC

2015 Manhattan Beach Boulevard, Suite 104
Redondo Beach, CA 90278
Attention: Charles Brown
Telephone: (704) 430-7037
E-mail: chip@insitepg.com

With a Copy to: Fernando Villa
Manatt Phelps & Phillips, LLP
2049 Century Park East, Suite 1700
Los Angeles, CA 90067
Phone: 310-312-4389
E-mail: fvilla@manatt.com

Either City or Developer may change its mailing address at any time by giving written notice of such change to the other in the manner provided herein at least ten days prior to the date such change is affected. Any notice given by mail is deemed to have been given as of the date of delivery (whether accepted or refused) established by the United State Post Office, return receipt, or the overnight carrier's proof of delivery as the case may be. Notices given in any other manner are effective only if and when received by the party to be notified between the hours of 8:00 a.m. and 5:00 p.m., local time of the recipient, of any business day with delivery made after such hours deemed received the following business day.

20. Entire Agreement. This Agreement contains the entire agreement between the Parties regarding the subject matter hereof, and supersedes in its entirety all prior agreements or understandings, oral or written. This Agreement shall not be amended, except as expressly provided herein.

21. Waiver. No waiver of any provision of this Agreement shall constitute a waiver of any other provision, whether or not similar; nor shall any such waiver constitute a continuing or subsequent waiver of the same provision. No waiver shall be binding, unless it is executed in writing by a duly authorized representative of the Party against whom enforcement of the waiver is sought.

22. Supersession of Subsequent Laws of Judicial Action. The provisions of this Agreement must, to the extent feasible, be modified or suspended as may be necessary to comply with any new State or federal law or decision issued by a court of competent jurisdiction, enacted or made after the effective date which prevents or precludes compliance with one or more provisions of

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this Agreement. Immediately after enactment of any such new law, or issuance of such decision, the parties must meet and confer in good faith to determine the feasibility of any such modification or suspension based on the effect such modification or suspension would have on the purposes and intent of this Agreement.

23. Severability. If any provision of this Agreement is determined by a court of competent jurisdiction to be invalid or unenforceable, the remainder of this Agreement shall be effective to the extent the remaining provisions are not rendered impractical to perform, taking into consideration the purposes of this Agreement.

24. Relationship of the Parties. Each Party acknowledges that, in entering into and performing under this Agreement, it is acting as an independent entity and not as an agent of any other Party in any respect. Nothing contained herein or in any document executed in connection herewith shall be construed as creating the relationship of partners, joint ventures or any other association of any king or nature between City and Developer, jointly or severally.

25. No Third-Party Beneficiaries. This Agreement is made and entered into for the sole benefit of the Parties and their successors in interest. No other person or party shall have any right of action based upon any provision of this Agreement.

26. Recordation of Agreement and Amendments. This Agreement and any amendment thereof shall be recorded with the County Recorder of the County of Los Angeles by the City Clerk of City.

27. Cooperation Between City and Developer. City and Developer shall execute and deliver to the other all such other and further instruments and documents as may be reasonably necessary to carry out the purposes of this Agreement. Upon satisfactory performance by Developer, and subject to the continuing cooperation of the Developer, City will commence and in a timely manner proceed to complete all steps necessary for the implementation of this Agreement and development of the Project or Property in accordance with the terms of this Agreement.

28. Rules of Construction. The captions and headings of the various sections and subsections of this Agreement are for convenience of reference only, and they shall not constitute a part of this Agreement for any other purpose or affect interpretation of the Agreement. Should any provision of this Agreement be found to be in conflict with any provision of the Applicable Rules or the Project Approvals or the Future Approvals, the provisions of this Agreement shall control.

29. Joint Preparation. This Agreement shall be deemed to have been prepared jointly and equally by the Parties, and it shall not be construed against any Party on the ground that the Party prepared the Agreement or caused it to be prepared.

30. Governing Law and Venue. This Agreement is made, entered into, and executed in the County of Los Angeles, California, and the laws of the State of California shall govern its interpretation and enforcement. Any action, suit or proceeding related to, or arising from, this Agreement shall be filed in the appropriate court having jurisdiction in the County of Los Angeles.

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31. Counterparts. This Agreement may be executed in multiple counterparts, each of which shall be deemed an original, but all of which constitute one and the same instrument.

32. Weekend/Holiday Dates. Whenever any determination is to be made or action to be taken on a date specified in this Agreement, if such date shall fall upon a Saturday, Sunday or holiday specified in Government Code § 6700, the date for such determination or action shall be extended to the first business day immediately thereafter.

33. Not a Public Dedication. Except as otherwise expressly provided herein, nothing herein contained shall be deemed to be a gift or dedication of the Property, or of the Project, or any portion thereof, to the general public, for the general public, or for any public use or purpose whatsoever, it being the intention and understanding of the Parties that this Agreement be strictly limited to and for the purposes herein expressed for the development of the Project as private property. The Developer shall have the right to prevent or prohibit the use of the Property, or the Project, or any portion thereof, including common areas and buildings and improvements located thereon, by any person for any purpose which is not consistent with the development of the Project. Any portion of the Property conveyed to the City by the Developer as provided herein shall be held and used by the City only for the purposes contemplated herein or otherwise provided in such conveyance, and the City shall not take or permit to be taken (if within the power or authority of the City) any action or activity with respect to such portion of the Property that would deprive the Developer of the material benefits of this Agreement, or would in any manner interfere with the development of the Project as contemplated by this Agreement.

34. Releases. City agrees that upon written request of Developer and payment of all fees and performance of the requirements and conditions required by Developer by this Agreement, the City must promptly execute and deliver to Developer appropriate release(s) of further obligations imposed by this Agreement in form and substance acceptable to the Los Angeles County Recorder's Office or as otherwise may be necessary to affect the release.

35. Consent. Where the consent or approval of City or Developer is required or necessary under this Agreement, the consent or approval will not be unreasonably withheld, delayed or conditioned.

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IN WITNESS WHEREOF, the Developer and the City of Gardena have executed this Development Agreement on the date first above written.

CITY:

City of Gardena, a municipal corporation

By: _____
Tasha Cerda, Mayor

ATTEST:

_____
Mina Semenza, City Clerk

APPROVED AS TO FORM:

By: _____
Carmen Vasquez, City Attorney

DEVELOPER:

1450 Artesia Acquisition Company LLC

By:_____
Charles Brown

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EXHIBIT A

LEGAL DESCRIPTION

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EXHIBIT B

SITE PLAN

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EXHIBIT C

ASSIGNMENT AND ASSUMPTION AGREEMENT

Recording Requested By and When Recorded Mail To:	

ASSIGNMENT AND ASSUMPTION AGREEMENT

This ASSIGNMENT AND ASSUMPTION AGREEMENT ("Agreement") is made and entered into by and among 1450 ARTESIA ACQUISITION COMPANY LLC, a Delaware Limited Liability Corporation ("Assignor"), and, _____, a _____ ("Assignee").

R E C I T A L S

A. The City of Gardena ("City") and Assignor entered into that certain Revised and Restated Development Agreement dated _____, 20__ (the "Development Agreement"), with respect to the real property located in the City of Gardena, State of California more particularly described in Exhibit "A" attached hereto (the "Project Site"), and

B. Assignor has obtained from the City certain development approvals and permits with respect to the development of the Project Site, including without limitation, approval of _____ for the Project Site (collectively, the "Project Approvals").

C. Assignor intends to sell, and Assignee intends to purchase, that portion of the Project Site more particularly described in Exhibit "B" attached hereto (the "Transferred Property").

D. In connection with such purchase and sale, Assignor desires to transfer all of the Assignor's right, title, and interest in and to the Development Agreement and the Project Approvals with respect to the Transferred Property. Assignee desires to accept such assignment from Assignor and assume the obligations of Assignor under the Development Agreement and the Project Approvals with respect to the Transferred Property.

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THEREFORE, the parties agree as follows:

1. Assignment. Assignor hereby assigns and transfers to Assignee all of Assignor's right, title, and interest in and to the Development Agreement and the Project Approvals with respect to the Transferred Property. Assignee hereby accepts such assignment from Assignor.

2. Assumption. Assignee expressly assumes and agrees to keep, perform, and fulfill all the terms, conditions, covenants, and obligations required to be kept, performed, and fulfilled by Assignor under the Development Agreement and the Project Approvals with respect to the Transferred Property, including but not limited to those obligations specifically allocated to the Transferred Parcel as set forth on Exhibit "C" attached hereto.

3. Effective Date. The execution by City of the attached receipt for this Agreement shall be considered as conclusive proof of delivery of this Agreement and of the assignment and assumption contained herein. This Agreement shall be effective upon its recordation in the Official Records of Los Angeles County, California, provided that Assignee has closed the purchase and sale transaction and acquired legal title to the Transferred Property.

4. Remainder of Project. Any and all rights or obligations pertaining to such portion of the Project Site other than the Transferred Property are expressly excluded from the assignment and assumption provided in Sections 1 and 2 above.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the dates set forth next to their signatures below.

"ASSIGNOR"

1450 ARTESIA ACQUISITION COMPANY LLC

_____

"ASSIGNEE"

[_____]

_____

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RECEIPT BY CITY

The attached ASSIGNMENT AND ASSUMPTION AGREEMENT is received by the City of Gardena on this ___ day of _____, _____.

	CITY OF GARDENA _____ By: _____ Community Development Director

[EXHIBITS "A" THROUGH "C" TO BE ADDED AT EXECUTION]

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EXHIBIT D

LOCAL HIRING/LOCAL BUYING PROGRAM FOR CONSTRUCTION

Local Hiring Policy for Construction. Developer shall implement a local hiring policy (the "Local Hiring Policy") for construction of the Project, consistent with the following guidelines:

1. Purpose. The purpose of the Local Hiring Policy is to facilitate the employment by Developer and its contractors at the Project of residents of the City of Gardena (the "Targeted Job Applicants"), and in particular, those residents who are "Low-Income Individuals" (defined below) by ensuring Targeted Job Applicants are aware of Project construction employment opportunities and have a fair opportunity to apply and compete for such jobs.

2. Definitions.

   a. "Contract" means a contract or other agreement for the providing of any combination of labor, materials, supplies, and equipment to the construction of the Project that will result in On-Site Jobs, directly or indirectly, either pursuant to the terms of such contract or other agreement or through one or more subcontracts.

   b. "Contractor" means a prime contractor, a sub-contractor, or any other entity that enters into a Contract with Developer for any portion or component of the work necessary to construct the Project (excluding architectural, design and other "soft" components of the construction of the Project).

   c. "Low Income Individual" means a resident of the City of Gardena whose household income is no greater than 80% of the Median Income.

   d. "Median Income means the median family income published from time to time by HUD for the Los Angeles-Long Beach Metropolitan Statistical Area.

   e. "On-Site Jobs" means all jobs by a Contractor under a Contract for which at least fifty percent (50%) of the work hours for such job requires the employee to be at the Project site, regardless of whether such job is in the nature of an employee or an independent contractor. On-Site Jobs shall not include jobs at the Project site which will be performed by the Contractor's established work crew who have not been hired specifically to work at the Project site.

3. Priority for Targeted Job Applicants. Subject to Section 6 below in this Local Hiring Policy provides that the Targeted Job Applicants shall be considered for each On-Site Job in the following order of priority:

   a. First Priority: Any resident of a household with no greater than 80% Median Income that resides within the Low and Moderate Income Areas identified in the City of Gardena's Housing Element;

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b. Second Priority: Any resident of a household with no greater than 80% Median Income that resides within the City; and

c. Third Priority: Any resident of a household with no greater than 80% Median Income that resides within a five (5) mile radius of the project site.

d. Fourth Priority: Any resident of a household that resides within the City or a five (5) mile radius of the project site.

4. Coverage. The Local Hiring Policy shall apply to all hiring for On-Site Jobs related to the construction of the Project, by Developer and its Contractors.

5. Outreach. So that Targeted Job Applicants are made aware of the availability of On-Site Jobs, Developer or its Contractors shall:

a. Advertise available On-Site Jobs in the Gardena Valley News or similar local media and electronically on a City-sponsored website, if such a resource exists; and

b. Work with the South Bay Workforce Investment Board to coordinate recruiting and hiring of workers needed for development and operations of the project.

6. Hiring. Developer and its contractor(s) shall consider in good faith all applications submitted by Targeted Job Applicants for On-Site Jobs, in accordance with their normal practice to hire the most qualified candidate for each position and shall use best efforts to hire Targeted Job Applicants when most qualified or equally qualified as other applicants. City acknowledges that the Contractors shall determine in their respective subjective business judgment whether any particular Targeted Job Applicant is qualified to perform the On-Site Job for which such Targeted Job Applicant has applied. Contactors are not precluded from advertising regionally or nationally for employees in addition to its local outreach efforts.

7. Term. The Local Hiring Policy shall continue to apply to the construction of the Project until the final certificate of occupancy for the Project has been issued by City.

8. Developer and its contractor(s) shall abide by all applicable State and local labor regulations.

Local Buying Program for Materials and Supplies.

1. Local Supplier Requirements. Developer and its contractors shall use best efforts to ensure that materials and supplies used for construction of the project come from businesses based in the City of Gardena whenever possible.

a. Developer and its contractors shall coordinate with the City's Economic Development Manager to obtain a list of suppliers in the City.

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b. Developer and its contractors shall solicit bids from suppliers located in the City, but nothing shall require Developer and its contractors to purchase from such supplier if it is not the lowest bid.

2. Local Supplier Report. Developer shall prepare a quarterly report for the City's Economic Development Manager which shall quantify in dollar amount the materials and supplies procured from businesses based in the City of Gardena and the amount of material and supplies procured elsewhere. The report shall include a description of efforts made to procure materials and supplies from Gardena businesses.

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EXHIBIT E
CITY EVENT SPACE

CITY EVENT SPACE

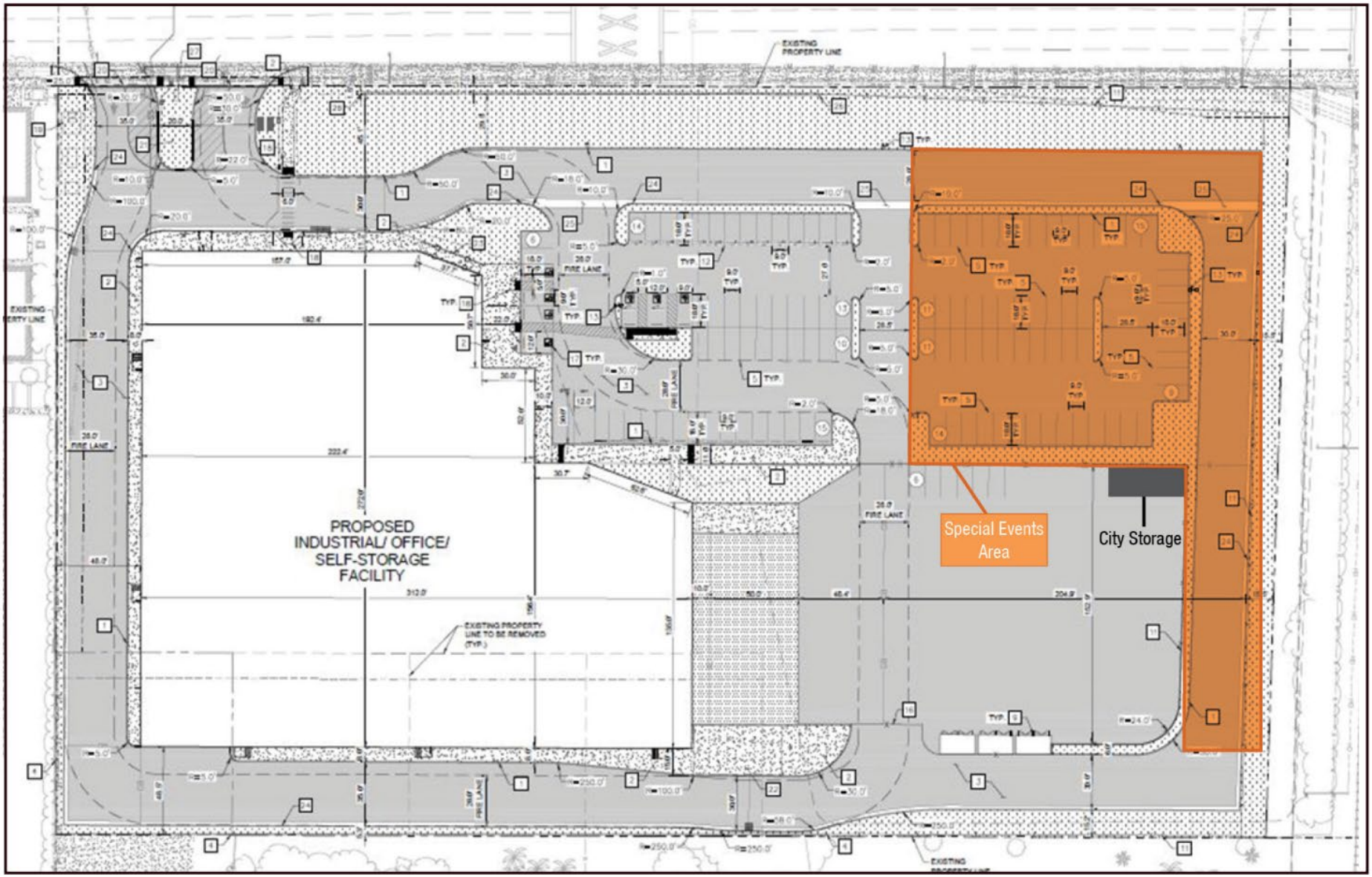

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EXHIBIT F
ACCESS AGREEMENT BETWEEN THE CITY AND DEVELOPER

Docusign Envelope ID: E030F15D-18E0-40A9-B47C-A609EAC7E4A2

RECORDING REQUESTED BY
AND WHEN RECORDED MAIL TO:

CITY CLERK
CITY OF GARDENA
1700 W. 162nd Street
Gardena, California 90247

Space Above Reserved for Recorder's Use

EXEMPT FROM RECORDER'S FEES
Pursuant to Government Code § 6103

ACCESS AGREEMENT

This access agreement (this "**Agreement**") is entered into between the CITY OF GARDENA ("**City**") and 1450 ARTESIA ACQUISITION COMPANY LLC ("**Owner**"). Owner owns the property identified in **Exhibit A** attached hereto (the "**Property**"). City and Owner are referred to individually as "**Party**" and collectively as the "**Parties**." This Agreement is with respect to the property covered by the Artesia Corridor Specific Plan as more particularly described in Exhibit A, attached hereto.

Section 1. Grant of Access and Storage Building. For good and valuable consideration which the parties hereby acknowledge the receipt and sufficiency thereof, subject to the terms of this Agreement, Owner hereby agrees to grant City access to and use of an approximately 36,000 square foot portion of the Property, as depicted in Exhibit B attached hereto (the "**Special Event Area**") for special events ("**Special Events**") to be held approximately two to three times per a month which shall not exceed 36 times per year, and limited to Saturday and Sunday events between 7 AM and 10 PM with expected attendance up to 250 attendees. Clean-up operations may take place after this time. City shall provide Owner and each of its tenants a minimum of fourteen (14) calendar days' notice of City's intent to hold a Special Event, so that Owner may coordinate with its tenants to make sure that business operations do not interfere with the City's Special Events. City shall be responsible for sponsoring, securing, and monitoring Special Events. Security and public services during Special Events shall be the City's responsibility.

(a) During the time of the Special Events, truck traffic to the distribution/warehouse uses of the Property will be rerouted so that trucks will not have access to the eastern and northern portion of the circulation lanes. The City shall be required to install a temporary barrier prohibiting such use and requiring trucks to exit in the direction that they entered.

(b) During the time of the Special Events, the City may install temporary physical barriers to prevent vehicles from entering the drive aisles near the Special Events, provided that access is still provided to the parking areas for the self-storage uses of the Property.

(c) Owner shall provide storage space on the Property for City storage use of all items related to the Special Events including barricades, tables and chairs in accordance with the terms of the Development Agreement entered into by the Parties dated March ___, 2025 (the "**Development Agreement**"). City shall provide, pay and be solely responsible for all such items, except that Owner shall maintain this storage

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space in a manner that prevents damage to such items while stored in this storage space. Owner shall bear no responsibility or liability for maintaining, repairing or replacing any such item stored in this storage space.

Section 2. Conditions of and General Limitations on Special Events. Special Events may be conducted only within the Special Event Area and only between the hours of 7:00 a.m. to 10:00 p.m. Pacific Time. All Special Events shall be undertaken at City's sole cost and expense. Owner reserves the right, at Owner's expense, to have its personnel accompany City and any person or entity acting on City's behalf at all times during its Special Events. City may access the Storage Building at any time.

Section 3. Secure Special Event Area. In connection with any Special Events City shall, and shall cause any person or entity acting on its behalf, to properly secure the Special Event Area to prevent material harm or disruption to Owner or Owner's tenants, employees, agents, licensees and invitees. City shall, and shall cause any person or entity acting on its behalf, to keep any equipment used or brought onto the Property under its complete control at all times. All such equipment shall be used on the Property at the sole risk of City. Except as provided in Section 1(c) hereof and in the Development Agreement by and among the City and Owner, dated March 11, 2025 (the "**Development Agreement**"), neither City nor any person or entity acting on City's behalf may store equipment on the Property when not conducting Special Events without Owner's written prior consent, which Owner may withhold in its sole and absolute discretion.

Section 4. Compliance with Laws. City shall comply with all applicable federal, state and local laws and regulations in performing the Special Events, including but not limited to any and all applicable federal, state or local statutes, ordinances, regulations, orders, directives or other legal requirements relating to the protection of the environment or to the handling, treatment, storage, or disposal of Hazardous Substances (collectively, "**Environmental Laws**"). As used in this Agreement, "**Hazardous Substances**" include any hazardous substances, hazardous material, hazardous waste, regulated substance, or toxic substance, as defined by any Environmental Law, and any chemicals, pollutants, contaminants, petroleum, petroleum products or constituents, petroleum derivatives or metabolites or degradation products, or oil.

Section 5. Duty to Repair and Minimize Disruption. During its Special Events, City shall not permit any attendee, City elected or appointed official or employee, contractor, vendor or any other person present at any of such Special Events to: (i) interfere with or disrupt the business operations or use of the Property by Owner, any of its tenants, or any principal, officer, manager, employee, invitee, vendor or contractor of Owner or any of its tenants other than the truck access as specified in Section 1(a) hereof, (ii) interfere or tamper with, damage, impair or alter any of the elements or features of the Final Remedial Action Plan pertaining to the Property approved by the California Department of Toxic Substances Control on July 17, 2022, or (iii) park any vehicle in any of the Property's parking spaces or in any other area of the Property outside of the Special Event Area as depicted on Exhibit B. City shall repair any damage to the Property or to the improvements thereon to the condition that existed prior to undertaking such Special Events that may occur as a result of its Special Events at the Property, including but not limited to restoration of the surface areas of the Property, subsurface areas of the Property and any of the Project's improvements. City shall not install any fixtures on the Property. When not conducting a Special Event, City shall remove any and all of its equipment and materials from the Property, except as otherwise provided in Section 1(c) hereof.

Section 6. Indemnity and Insurance. City shall indemnify, hold harmless and defend Owner and Owner's principals, officers, employees, investors and lenders ("**Owner Indemnitees**") against and from any and all claims, losses, damages, liabilities, judgments, orders, penalties, fines and other losses, including but not limited to reasonable attorneys' and experts' fees and expenses, resulting from any claim by any third party

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("**Claims**") arising directly or indirectly from (i) any Special Events conducted by City or any person or entity on City's behalf, (ii) the presence of any Hazardous Substance on or under the Property released, originating from, or caused by City, or (iii) any other entry or activity on the Property by the City or any other person or entity acting on its behalf. The provisions of this Section shall survive the termination of this Agreement.

(a) City shall, and shall require its contractors and subcontractors to, name as additional insureds Owner Indemnitees on City's and their respective comprehensive general liability policies or their substantial equivalents that shall have per claim and aggregate minimum policy limits of at least One Million Dollars ($1,000,000), and shall provide Owner copies of certificates of insurance under such policies: (i) carried by the City no later than ten (10) days before the date on which the City or any person or entity on City's behalf first enters the Property, and (ii) carried by each City contractor or subcontractor that will enter and use the Property for any Special Event no later than ten (10) days before the occurrence of any such Special Event. The policies required in this Section 6 shall be in full force and effect whenever City and/or any City contractor or subcontractor enters the Property for any reason.

(b) Prior to entry on the Property by City or any person or entity acting on City's behalf, City shall cause to be furnished to Owner, at no cost to Owner, within the time periods prescribed in Section 6(a) hereof satisfactory certificates of insurance listing the Owner Indemnitees as an additional insureds on the policies listed below (except for Worker's Compensation, Employer's Liability and Professional Liability policies), evidencing that City and such persons or entities described in Section 6(a) hereof performing Activities on the Property have insurance in full force and effect whenever City and/or any City contractor or subcontractor enters the Property for any reason meeting the requirements set forth below.

Type	Limits
Worker's Compensation/Employer's Liability	Statutory/$500,000
General Liability	$1,000,000/occurrence $5,000,000/aggregate
Automobile Liability	$1,000,000/Combined Single Limit

(c) The insurance required hereby may be maintained under a blanket policy or an umbrella policy insuring other parties and other locations so long as such policy satisfies the foregoing requirements. Any coverage written on a "claims-made" basis shall be kept in force, either by renewal or the purchase of an extended reporting period, for a minimum period of one year following the first entry onto the Property by City, any City contractor or City subcontractor, or any other person or entity on behalf of City to conduct Activities. Nothing in this Section shall in any way limit City's liability under this Agreement or otherwise.

Section 7. No Liens. City shall not permit any mechanics', materialmen's, or other similar liens or claims to stand against the Property for labor or material furnished in connection with any Special Events performed by City or any person or entity on City's behalf under this Agreement. Upon reasonable and timely written notice of any such lien or claim delivered to City, City may bond and contest the validity and the amount of such lien, but City shall: (a) promptly pay any judgment rendered; (b) promptly pay all proper costs and charges arising from the Special Events and any disputes relating thereto; and (c) have the

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lien or claim released at its sole expense at the earliest practicable time. The provisions of this Section shall survive the termination of this Agreement.

Section 8. No Agency. All Special Events undertaken by or on behalf of City at the Property shall be for its sole account and not as an agent, servant or contractor for Owner.

Section 9. Successors and Assigns and Assignment and Delegation. This Agreement shall be binding upon and inure to the benefit of the parties' respective successors and assigns, including any tenants of the Property; *provided*, *however*, that City may not assign its rights or delegate its duties under this Agreement without the prior written consent of Owner in Owner's sole and absolute discretion. Owner may assign its rights and/or delegate its duties under this Agreement in Owner's sole and absolute discretion, *provided, however*, any such assignment shall require the assignee to assume Owner's obligations hereunder.

Section 10. Entire Agreement. This Agreement represents the full, complete and entire agreement between the parties with respect to the subject matter hereof. There are no other understandings, oral or written, related to the subject matter of this Agreement.

Section 11. Notices. Any notice required or provided under this Agreement may be made by U.S. mail, express mail by a recognized national express mail service or e-mail addressed to the following persons on behalf of the Parties. Any such notice shall be deemed received by the recipient within three (3) days of the posted date of a letter mailed via U.S. mail, within the date of projected delivery posted by an express mail service, or at the time noted of delivery of an e-mail. Such notices shall be addressed to:

To Owner:

1450 Artesia Acquisition Company LLC
2015 Manhattan Beach Boulevard, Suite 104
Redondo Beach, CA 90278
Attention: Charles Brown
Telephone: (704) 430-7037
chip@insitepg.com

To City:

City of Gardena
1700 W. 162nd Street
Gardena, CA 90247
Attention: City Manager's Office
Phone: 310-217-9503

Section 12. Amendment and Integration. This Agreement may be amended only by a written agreement signed by both Parties. No promise, term or condition regarding this Agreement, either express or implied or written or verbal, shall bind or benefit any Party other than the express terms of this Agreement.

Section 13. Governing Law. This Agreement and the rights and obligations hereunder shall be construed in accordance with and be governed by the law of the State of California without regard to conflict of law principles.

Section 14. Remedies and Attorneys' Fees. Each Party shall have all rights and remedies at law and in equity for a breach of this Agreement by the other Party. If any action or proceeding is brought to enforce the terms of this Agreement, the prevailing party shall be entitled to recover from the other party reasonable attorneys' fees, costs and expenses in connection with prosecuting or defending such action.

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Section 15. No Admission of Liability. It is hereby agreed that the neither this Agreement nor the Special Events on the Property are an admission against City's or Owner' interests or an assumption of liability or waiver of any rights by City or Owner.

Section 16. Termination. This Agreement shall survive the termination of the Development Agreement, and shall remain in place until terminated by both parties.

Section 17. Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be deemed an original, but all of which when taken together shall constitute one and the same instrument. The signature page of any counterpart may be detached therefrom without impairing the legal effect of the signature(s) thereon provided such signature page is attached to any other counterpart identical thereto except having additional signature pages executed by other parties to this Agreement attached thereto. Delivery of a signed counterpart by fax or email shall constitute good and sufficient delivery.

In witness hereof, the Parties hereby sign this Agreement as follows:

CITY OF GARDENA

By: _____

Name: _____

Title: _____

Date: _____

Contact Person: _____

Contact Telephone Number: _____

1450 ARTESIA ACQUISITION COMPANY LLC

By: _____

Name: _____

Title: _____

Date: _____

Contact Person: _____

Contact Telephone Number: _____

Docusign Envelope ID: E030F15D-18E0-40A9-B47C-A609EAC7E4A2

Exhibit A

List of Properties Subject to Access Agreement

The properties subject to this Access Agreement are located at 1450, 1472, 1462, 1452, and 1440 West Artesia Boulevard, Gardena, California, with APNs, respectively, 6106-036-010, -012, -034, 035, -036, and -037.

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Exhibit B

Special Event Area

[TO BE INSERTED]

City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 16.A
Section: DEPARTMENTAL ITEMS - PUBLIC WORKS
Meeting Date: February 25, 2025

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: Award Construction Contract for the Rowley Park Improvements Basketball Court Rehab Phase 1 - Demolition, Drainage, Electrical and Site Furnishing Project, JN 530, to Zeco, Inc. in the amount of $588,537.55, Approve the Project Plans & Specifications, 15% Project Contingency, and Declare California Environmental Quality Act (CEQA) Exemption.

COUNCIL ACTION REQUIRED:

Staff Recommendation:

- **Award Construction Contract**
- **Approve Project Plans and Specifications**
- **Approve Project Contingency**
- **Declare CEQA Exemption**

RECOMMENDATION AND STAFF SUMMARY:

The Rowley Park Basketball courts are located at 13220 Van Ness Ave. Phase 1 of the project includes upgrading existing lighting to high efficiency LED fixtures, new upgraded poles/fixtures, replacement of basketball fixtures, drainage improvements, concrete repair, and replacement of sand in playground with poured in place resilient surfacing.

Upon completion of Phase 1, the City will go out to bid for Phase 2 of the project, which will consist of the resurfacing and restriping of the basketball courts. One of the courts will be restriped for pickleball activities.

The following six (6) bids for the Phase 1 improvements were received on January 30, 2025:

Organization	Bid Amount
1. Green Giant Landscape, Inc., La Habra	$483,352.14 (Non-responsive)
2. Zeco, Inc., Yorba Linda	$588,537.55
3. Aguilar & Calderon Corp., Whittier	$632,945.14
4. We R Builders, Inc., La Crescenta	$639,902.14
5. KASA Construction, Inc. Chino	$715,558.14
6. US Builders and Consultants, Inc. Irvine	$848,390.14

Green Giant Landscape (GGL) submitted the apparent lowest bid in the amount of $483,352.14. However, their bid was deemed non-responsive because GGL does not hold a C-10 electrical license and failed to list an electrical licensed subcontractor. Per State Contract

Code 4104(a), the general contractor is required to list a subcontractor who will perform work, labor, or services for the prime contractor in connection with the construction of the project amount equal to or exceeding one-half of one percent (0.5%) of the prime contractor's total bid. GGL did not fulfill this requirement. Therefore, Zeco Inc., emerged as the lowest responsible bidder. They are a state licensed contractor with verified successful construction experience in the field and will be required to meet all bonding and financial standards. The tentative construction start date is April 2025 with an anticipated project completion in August 2025.

Zeco Inc. had mathematical errors on their bid schedule that resulted in a $9.28 increase on their total bid amount. The corrected total bid amount is $588,537.55. Zeco Inc. remains the second lowest bidder with the corrected total bid amount.

Staff respectfully recommends that the City Council award the construction contract for the Gardena Rowley Park Basketball Rehabilitation Project, JN 530, to Zeco Inc., in the amount of $588,537.55, and additionally:

a. Approve the project plans and specifications.
b. Approve a 15% of the construction award amount, $88,000, to be utilized for the project contingency.
c. Declare this project to be categorically exempt under the CEQA, Class 1, Section 15301 (d), as rehabilitation of existing facilities.

FINANCIAL IMPACT/COST:

Source of Funds:

Prop 68	$210,000.00
Deferred Maintenance Fund	$500,000.00
Measure A	$224,704.00
Total	**$934,704**

Estimated Expenditures:

Design Phase Expenditures During FY 24-25	$9,370.50
Construction Support Services and Job Cost	$20,000.00
Phase I - Construction Contract Award	$588,537.55
Phase II - Estimated Construction Budget	$228,000.00
15% Project Contingency	$88,000.00
Total	**$933,908.05**

ATTACHMENTS:

JN 530 PH1_Specs.pdf
JN 530 PH1 Plans.pdf
JN 530 PH 1_CEQA_NOE.pdf
JN 530 - Zeco, Inc. 1-30-2025.pdf
JN 530 project location map.pdf

APPROVED:

_____

Clint Osorio, City Manager

CITY OF GARDENA

CONTRACT DOCUMENTS AND SPECIFICATIONS

FOR

ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING

JN 530
PHASE 1

JANUARY 2025

CITY OF GARDENA

CONTRACT DOCUMENTS AND SPECIFICATIONS

FOR

ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING

JN 530
PHASE 1

Plans & Specifications prepared by:

Memoranda:

Plans and specifications are available at Planwell Administrator, 562.436.9761 or https://www.e-arc.com/location/costa-mesa/ (Go to Planrooms/Order From Planwell/Public Planroom and select City of Gardena under pulldown menu)

Bid Results: https://www.cityofgardena.org/public-contracts/

City of Gardena Public Works Engineering Division: 310.217.9568

CITY OF GARDENA
NOTICE INVITING BIDS
for
ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING
PROJECT NO. JN 530

Plans and Specifications are available through ARC Document Solutions. Please be advised that there is an additional charge for delivery. Upon payment of the purchase price, they become the property of the purchaser and may not be returned for refund.

You may access the plans through the following website under Public Planroom:

https://www.e-arc.com/location/costa-mesa/
(Scroll down to "Planrooms"/"Order From PlanWell"/"Public Planroom" and select City of Gardena under the "in all company" pulldown menu)
or
https://customer.e-arc.com/arcEOC/Secures/PWELL_PrivateList.aspx?PrjType=Pub&mem=29&c

For help accessing and ordering, please contact a Planwell Administrator at 562.436.9761.

Notice is hereby given that the City of Gardena will receive sealed bids at the office of the City Clerk, City Hall, 1700 W. 162nd Street, Gardena, California, until **2:00pm** on **January 30, 2025,** and shortly thereafter on this same day, they will be publicly opened and read in the City Clerk's Office in-person and via ZOOM.

The information to join the bid opening via ZOOM is the following:

Topic: Bid Opening
Time: 2:00 PM on Jan. 30, 2025 (Shortly thereafter the deadline)
Join ZOOM Meeting

https://us02web.zoom.us/j/89407151911
Meeting ID: 894 0715 1911
Dial by phone: +1 669 444 9171 US

Should you have any questions or concern in delivering a bid or joining the ZOOM Meeting, please contact City Clerk's office at (310) 217-9565 or via email at cityclerk@cityofgardena.org.

All bids must be in writing, must be sealed, and must be plainly marked on the outside: "BID ON PROJECT NO. JN 530 Phase 1. Any bid received after the hour stated above for any reason whatsoever, will not be considered for any purpose but will be returned unopened to the bidder.

Bids are required for the entire work as described below:
The Scope of Work includes replacement of basketball units. Replacement of existing light poles and upgrade to LED lights. Install dry wells, drainpipes, and electrical conduits. Replace sand in tot lot with crushed rock base and 2-layer pour-in-place playground surfacing.

ENGINEER'S ESTIMATE: $392,000

The time of completion of contract shall be **90 working days** as defined in the latest Standard Specifications for Public Works ("Greenbook"). Liquidated Damages, as defined in Section 6-9, shall be **$500 per each consecutive calendar day.**

Each bidder must submit a proposal to the City, c/o City Clerk in accordance with the Plans and Specifications. Said proposal is to be accompanied by a cash deposit, a certified or cashier's check, or a bidder's bond, made payable to the City of Gardena, in an amount not less than 10 percent of the total bid submitted.

The envelope enclosing the proposal shall be sealed and addressed to the City of Gardena c/o City Clerk and delivered or mailed to the City at 1700 W. 162nd Street, Gardena, California 90247-3778. The envelope shall be plainly marked in the upper left-hand corner as follows:

ATTENTION: CITY, c/o CITY CLERK
(Bidder's Name and Address) _____

(Number and title of this project)_____

The successful bidder will be required to furnish a faithful performance bond in the amount of 100 percent of the contract price, and a payment bond in the amount of 100 percent of the contract price, both in a form satisfactory to the City Attorney.

The contractor shall have an active **Class "A"** license from the Contractor's State License Board at the time of submitting bid.

The prime Contractor must perform at least 30% of the cost of the contract, not including the cost of materials, with its own employees on site.

Pursuant to Public Contract Code Section 22300, the Contractor may, at Contractor's sole cost and expense, substitute securities equivalent to any monies withheld by the City to insured performance under the contract unless applicable federal regulations or policies do not allow such substitution. Such security shall be deposited with the City, or a state or federally chartered bank as escrow agent, who shall pay such monies to the Contractor upon satisfactory completion of the Contract. The Contractor shall be the beneficial owner of any security substituted for monies withheld and shall receive any accrued interest thereon. Securities eligible for investment shall include those listed in Government Code Section 16430 or bank or savings and loan certificates of deposit. No such substitution shall be accepted until the escrow agreement, letter of credit, form of security and any other document related to said substitution is reviewed and found acceptable by the City Attorney.

The City reserves the right to reject any or all bids and to waive any informality or irregularity in any bid received and to be the sole judge of the merits of the respective bids received. The award, if made, will be made to the lowest responsive responsible bidder.

Bidders are advised that this Project is a public work for purposes of the California Labor Code, which requires payment of prevailing wages. Accordingly, the bidder awarded the Contract and all subcontractors shall be required to pay not less than the prevailing rate of per diem wages, as determined by the Director of the California Department of Industrial Relations, and otherwise comply with the provisions of Section 1770 et seq. of the California Labor Code, California Code of Regulations, Title 8, Section 16000 et seq., and any other applicable laws, rules and regulations adopted with respect thereto ("California Prevailing Wage Laws").

Attention is directed to the provisions of Sections 1777.5 and 1777.6 of the Labor Code concerning the employment of apprentices by Contractor or any Subcontractor under it.

Contractor and any Subcontractor under if shall comply with the requirements of said sections in the employment of apprentices.

The Contractor is prohibited from performing work on this project with a subcontractor who is ineligible to perform work on the project pursuant to Section 1777.1 or 1777.7 of the Labor Code.
This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. All contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner (aka Division of Labor Standards Enforcement) in a format prescribed by the Labor Commissioner no less than monthly.

As of **January 1, 2016**, the requirement to furnish electronic certified payroll records to the Labor Commissioner will apply to all public works projects, whether new or ongoing. **City may require a copy of the electronic certified payroll records submitted to the DIR at any time.**

Exceptions: The Labor Commissioner may (but is not required to) excuse contractors and subcontractors from furnishing electronic certified payroll records to the Labor Commissioner on a project that is under the jurisdiction of one of the four legacy DIR-approved labor compliance programs (Caltrans, City of Los Angeles, Los Angeles Unified School District, and County of Sacramento) or that is covered by a qualifying project labor agreement.

These requirements will apply to all public works projects that are subject to the prevailing wage requirements of the Labor Code without regard to funding source.

The State General Prevailing Wage Determination is as established by the California Department of Industrial Relations (available at http://www.dir.ca.gov/DLSR/PWD/index.htm).

Skilled and Trained Workforce: This project is subject to Skilled and Trained Workforce Requirements per Sections 2600 through 2603 of the Public Contract Code.

Award of Contract: The following are conditions to the award of the contract:

I. Each contractor and subcontractor listed on the bid must be registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5. subject to the limited exceptions set forth in Labor Code Section 1771.1(a) (regarding the submission of a bid as authorized by Business & Professions Code Section 7029.1 or Public Contract Code Section 10164 or 20103.5 provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract was awarded): and
II. No contractor or subcontractor may be awarded this contract unless the contractor and each subcontractor listed on the bid is registered with the Department of Industrial Relations pursuant to Section 17265.5.

Any questions regarding this bid package may be referred to Jose Espinoza, Public Works Engineering Division at 310.217.9644 or jespinoza@cityofgardena.org.

The time of completion of contract shall be **90 working days** as defined in the latest Standard Specifications for Public Works ("Greenbook"). Liquidated Damages, as defined in Section 6-9, shall be **$500 per each consecutive calendar day.**

Each bidder must submit a proposal to the City, c/o City Clerk in accordance with the Plans and Specifications. Said proposal is to be accompanied by a cash deposit, a certified or cashier's check, or a bidder's bond, made payable to the City of Gardena, in an amount not less than 10 percent of the total bid submitted.

The envelope enclosing the proposal shall be sealed and addressed to the City of Gardena c/o City Clerk and delivered or mailed to the City at 1700 W. 162nd Street, Gardena, California 90247-3778. The envelope shall be plainly marked in the upper left-hand corner as follows:

ATTENTION: CITY, c/o CITY CLERK
(Bidder's Name and Address) _____

(Number and title of this project)_____

The successful bidder will be required to furnish a faithful performance bond in the amount of 100 percent of the contract price, and a payment bond in the amount of 100 percent of the contract price, both in a form satisfactory to the City Attorney.

The contractor shall have an active **Class "A"** license from the Contractor's State License Board at the time of submitting bid.

The prime Contractor must perform at least 30% of the cost of the contract, not including the cost of materials, with its own employees on site.

Pursuant to Public Contract Code Section 22300, the Contractor may, at Contractor's sole cost and expense, substitute securities equivalent to any monies withheld by the City to insured performance under the contract unless applicable federal regulations or policies do not allow such substitution. Such security shall be deposited with the City, or a state or federally chartered bank as escrow agent, who shall pay such monies to the Contractor upon satisfactory completion of the Contract. The Contractor shall be the beneficial owner of any security substituted for monies withheld and shall receive any accrued interest thereon. Securities eligible for investment shall include those listed in Government Code Section 16430 or bank or savings and loan certificates of deposit. No such substitution shall be accepted until the escrow agreement, letter of credit, form of security and any other document related to said substitution is reviewed and found acceptable by the City Attorney.

The City reserves the right to reject any or all bids and to waive any informality or irregularity in any bid received and to be the sole judge of the merits of the respective bids received. The award, if made, will be made to the lowest responsive responsible bidder.

Bidders are advised that this Project is a public work for purposes of the California Labor Code, which requires payment of prevailing wages. Accordingly, the bidder awarded the Contract and all subcontractors shall be required to pay not less than the prevailing rate of per diem wages, as determined by the Director of the California Department of Industrial Relations, and otherwise comply with the provisions of Section 1770 et seq. of the California Labor Code, California Code of Regulations, Title 8, Section 16000 et seq., and any other applicable laws, rules and regulations adopted with respect thereto ("California Prevailing Wage Laws").

Attention is directed to the provisions of Sections 1777.5 and 1777.6 of the Labor Code concerning the employment of apprentices by Contractor or any Subcontractor under it.

Contractor and any Subcontractor under if shall comply with the requirements of said sections in the employment of apprentices.

The Contractor is prohibited from performing work on this project with a subcontractor who is ineligible to perform work on the project pursuant to Section 1777.1 or 1777.7 of the Labor Code.
This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. All contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner (aka Division of Labor Standards Enforcement) in a format prescribed by the Labor Commissioner no less than monthly.

As of **January 1, 2016**, the requirement to furnish electronic certified payroll records to the Labor Commissioner will apply to all public works projects, whether new or ongoing. **City may require a copy of the electronic certified payroll records submitted to the DIR at any time.**

Exceptions: The Labor Commissioner may (but is not required to) excuse contractors and subcontractors from furnishing electronic certified payroll records to the Labor Commissioner on a project that is under the jurisdiction of one of the four legacy DIR-approved labor compliance programs (Caltrans, City of Los Angeles, Los Angeles Unified School District, and County of Sacramento) or that is covered by a qualifying project labor agreement.

These requirements will apply to all public works projects that are subject to the prevailing wage requirements of the Labor Code without regard to funding source.

The State General Prevailing Wage Determination is as established by the California Department of Industrial Relations (available at http://www.dir.ca.gov/DLSR/PWD/index.htm).

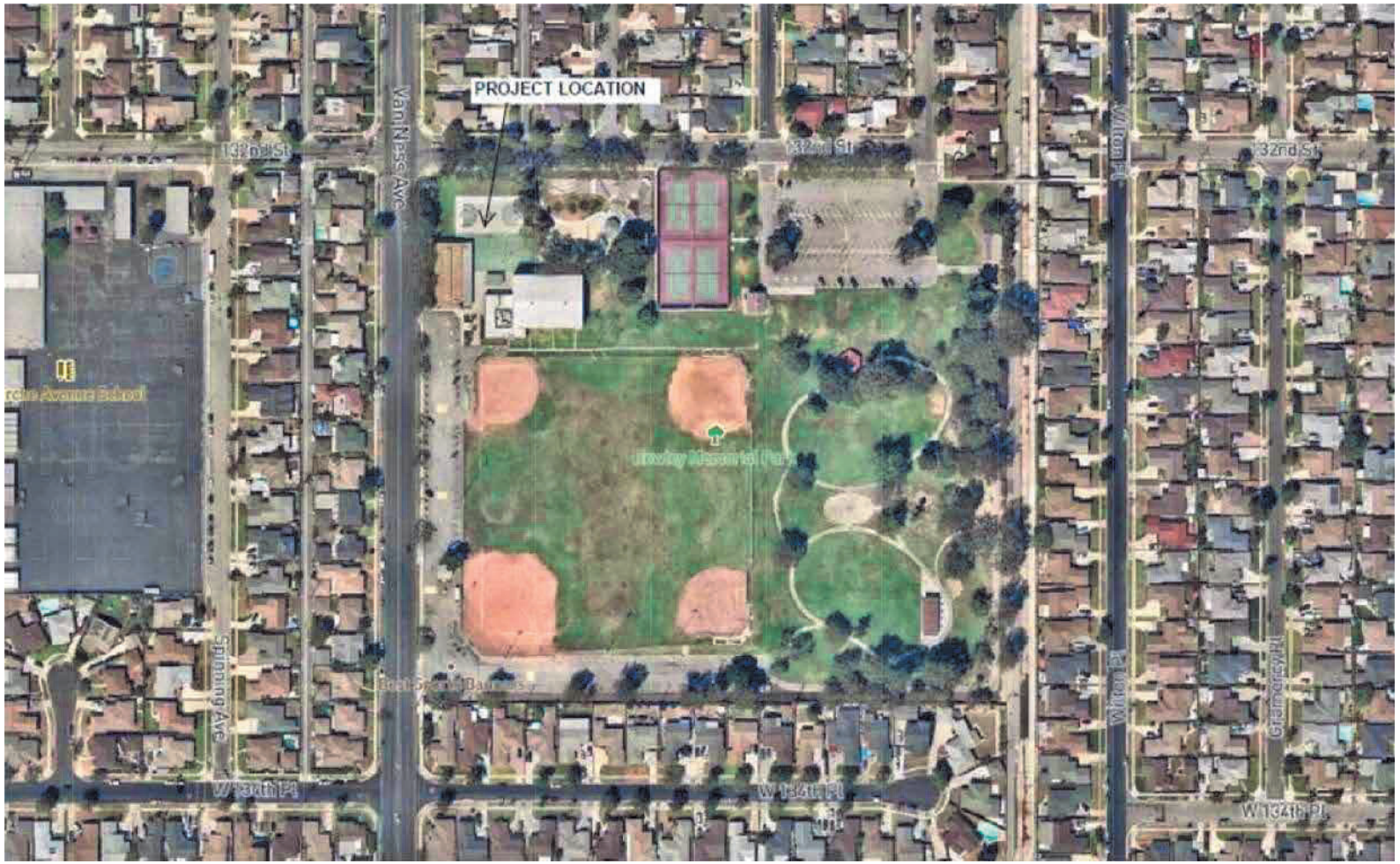
Skilled and Trained Workforce: This project is subject to Skilled and Trained Workforce Requirements per Sections 2600 through 2603 of the Public Contract Code.

Award of Contract: The following are conditions to the award of the contract:

I. Each contractor and subcontractor listed on the bid must be registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5. subject to the limited exceptions set forth in Labor Code Section 1771.1(a) (regarding the submission of a bid as authorized by Business & Professions Code Section 7029.1 or Public Contract Code Section 10164 or 20103.5 provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract was awarded): and
II. No contractor or subcontractor may be awarded this contract unless the contractor and each subcontractor listed on the bid is registered with the Department of Industrial Relations pursuant to Section 17265.5.

Any questions regarding this bid package may be referred to Jose Espinoza, Public Works Engineering Division at 310.217.9644 or jespinoza@cityofgardena.org.

ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING



1" = 261 ft	PROJECT LOCATION MAP	12/20/2022	

This map may represents a visual display of related geographic information. Data provided here on is not guarantee of acutual field conditions. To be sure of complete accuracy, please contact the responsible staff for most up-to-date information.

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INSTRUCTIONS TO BIDDERS

FORM OF PROPOSAL

The Proposal shall be fully executed and submitted on the forms in the project specifications and shall be enclosed in a sealed envelope marked and addressed as directed in the Notice Inviting Bids.

PROPOSAL / BID DOCUMENTS

All Proposals shall include the following executed documents to be submitted with each bid:

Bidding Schedule

Acknowledgement of Addenda Received

Bidder's Declaration

Non-Collusion Affidavit

Declaration of Eligibility of Contract

Bid Bond

Designation of Subcontractors

Construction Project Reference

Certificate of Non-Discrimination by Contractors

Certification of Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – Primary Covered Transitions

DELIVERY OF PROPOSAL

The Proposal shall be delivered by the time and to the place stipulated in the Notice Inviting Bids. It is the bidder's sole responsibility to see that its Proposal is received as stipulated. Any Proposal received after the scheduled closing time for receipt of proposals will be returned to the bidder unopened.

WITHDRAWAL OF PROPOSAL

The Proposal may be withdrawn by the bidder by means of a written request, signed by the bidder or its properly authorized representative. Such written request must be delivered to the place stipulated in the Notice Inviting Bids for receipt of proposals prior to the scheduled closing time for receipt of proposals. No Proposal may be withdrawn after the hour fixed for opening bids.

MODIFICATIONS AND ALTERNATIVE PROPOSALS

Unauthorized conditions, limitations, or provisions attached to the Proposal will render it informal and may be grounds for its rejection as non-responsive. The completed Proposal forms shall be without interlineations, alterations, or erasures. Alternative proposals will not be considered unless specifically requested. Oral, telegraphic, or telephonic proposals or modifications will not be considered.

DISCREPANCIES IN PROPOSALS

In the event there is more than one bid item in a Bidding Schedule, the bidder shall furnish a price for all bid items in the Schedule, and failure to do so will render the Proposal informal and may be grounds for its rejection as non-responsive. The bidder shall state in words and figures the unit prices or the specific sums as the case may be, for which it proposes to supply the labor, materials, supplies, or machinery, and completely perform the Contract. The total amount of each item bid and the total amount of the bid shall be stated in words and figures.

In case of any discrepancy between the words and the figures, the words shall prevail. If the unit price and the total amount named by a bidder for any items are not in agreement, the unit price alone will be considered as representing the bidder's intention and the total will be corrected to conform thereto.

PROPOSAL GUARANTEE – BIDDER'S SECURITY

Each bidder shall submit with his Proposal cash, an unconditional certified or cashier's check, or a bidder's bond, in the sum of the percentage of the bid stated in the Notice Inviting Bids, payable to the City as a guarantee that the bidder will, if its Proposal is accepted, execute the Contract and furnish a satisfactory Faithful Performance Bond, a satisfactory Payment Bond and insurance certificates as specified herein.

If a bidder to whom an award is made, fails or refuses to sign the Contract or furnish the required bonds and certificates, all within the time stated in Section 2-1.5 of the Special Provisions herein, the funds represented by said cash, check or bidder's bond shall be forfeited and become and remain the property of the City; the amount thereof being agreed to by the bidder and the surety as a bid bond forfeiture due to the City because of the delay in the execution of the Contract and in the performance of work thereunder, resulting from such failure or refusal, except that if the City awards the contract to the next lowest responsive responsible bidder, only that portion of the bidder's security equal to the difference between the two bids will be forfeited.

A Bid Bond must be obtained from a corporate surety authorized to do business as such in the State of California as an "admitted surety insurer" and shall be on the form furnished by the City or one substantially in conformance with it. Certified or cashier's checks must be drawn on a solvent state or nationally chartered bank or branch thereof in the State of California. The liability of the City in connection with the checks shall be limited to the return of the checks (without interest) as provided in Section 2-1.6 of the Special Provisions bound herein.

DISQUALIFICATION OF BIDDERS

A person, firm, or corporation shall NOT be allowed to make or file, or to be interested in, more than one bid, except an alternative bid when specifically requested; provided, however, a person, firm, or corporation who has submitted a sub-proposal to a bidder

submitting a Proposal, or who has quoted prices on materials to such bidders, is not thereby disqualified from submitting a sub-proposal or from quoting prices to other bidders submitting proposals, or from submitting a Proposal as a prime contractor. Similarly, failure to comply with the registration requirements of Labor Code Section 1725.5, as further described in the Notice Inviting Bids, will disqualify a bidder.

ADDITIONAL REQUIREMENTS

The bidder's attention is directed to the Special Provisions and Technical Provisions bound herein for additional requirements of the Proposal and Contract Documents.

CONTRACT DOCUMENTS

Contract Documents are to be submitted within twenty-one (21) calendar days AFTER award of contract unless extended by agreement of the City. Failure to timely submit executed Contract Documents may be grounds for rejecting the bid award and forfeiture of the bid security. See enclosed documents commencing on page CD-1.

BID PROPOSAL (BP)

ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING
PROJECT NO. JN 530 Phase 1

Contractor: _____

Address: _____

Phone: _____

Fax: _____

License No.: _____

D.I.R. No. _____

Email: _____

To Be

Submitted

WITH

Bid Package

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

BID SCHEDULE

The undersigned, having examined the proposed Contract Documents titled:

ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING

and having visited the site and examined the conditions affecting the work, hereby proposes and agrees to furnish all labor, materials, equipment, and appliances, and to perform operations necessary to complete the work as required by said proposed Contract Documents and itemized bid schedule below. All work shall be completed within 90 Working Days from the date the Notice of Proceed is issued by the Engineer.

Item No.	Item Description	Unit	Approx. Quantity	Unit Price in Figures	Item Total
1	Mobilization & Demobilization (5%)	LS	1		
2	Permits	LS	1	$3,291.14	$3,291.14
3	Sawcut, Remove and Dispose Existing Concrete Paving	SF	1,256		
4	Provide Concrete Crack Repair & Grind to Even Plane	LS	1		
5	Remove and Dispose of Existing Basketball Post/Hoop/Backboard/Conc. Footing.	EA	4		
6	Grading Export (Cut) Tot Lot Area	CY	255		
7	Construct Concrete Pavement	SF	1610		
8	Furnish & Install Crushed Rock Subbase & Filter Fabric for Tot Lot	CY	141		
9	Furnish & Install 4-inch Permeable Concrete Subslab	CY	65		
10	Furnish & Install 2-Layer Poured-in-Place Resilient Surfacing	CY	49		
11	Furnish & Install Basketball Post, Hoop, Backboard & Concrete Footing	EA	4		

12	Furnish & Install NDS FWAS24 Drywell (Or Equal)	EA	6		
13	Furnish & Install 12-inch Brooks Catch Basin 1212CB or equal	EA	5		
14	Furnish & Install 18-inch Brooks Catch Basin 1818CB or equal	EA	1		
15	Furnish & Install 24-inch Brooks Catch Basin 2424CB or equal	EA	1		
16	Furnish and install 4-Inch Sch 40 PVC Drainpipe	LF	555		
17	Furnish & Install Miscellaneous Turf & Irrigation Repair	LS	1		
18	Remove & Dispose of Existing Post, Light Fixture and Footing	EA	3		
19	Remove Existing Light Fixture (Pole to Remain)	EA	1		
20	Remove and Dispose of Existing Wall Mounted Light Fixtures	EA	3		
21	Furnish & Install (S1) Slim Style Type FT Optics, 20' Pole Mount	EA	1		
22	Furnish & Install (S2) Duel Slim Style Type FT Optics, 20' Pole Mount	EA	1		
23	Furnish & Install (S3) Slim Style Type FT Optics, Mount on Existing Pole	EA	1		
24	Furnish & Install (S4) Wall Mounted LED Fixture w/ 0-10V Dimming	EA	3		
25	Furnish & Install (S5) Slim Style Type 5W Optics, 20' Pole Mount	EA	2		
26	Furnish & Install (2)#10, (1) #10G / 1" Conduit	LF	83		
27	All Other Miscellaneous Electrical Work	LS	1		

BID SCHEDULE (Continued)

TOTAL CONTRACT BID:

(Figures) $_____

(Words) _____

* In case of error in extension of price into the total price column, the unit price will govern.

All work required and shown on the construction plans and this specification for which no price or item is listed on this proposal, it shall be understood that such work, equipment, labor, tools and materials shall be provided without extra charge, allowance or direct payment of any kind. Payment for performing such work or furnishing such equipment, labor, tools and materials shall be included in the above lump sum or unit bid prices and no additional compensation will paid therefor.

If the City determines that any of the unit bid prices are significantly unbalanced to the potential detriment of the City, the bid will be replaced as non-responsive.

In case of any discrepancy between the words and the figures, the words shall prevail. If the unit price and the total amount for any item are not in agreement, the unit price alone shall be considered to represent the bidder's intention and all totals will be corrected to conform thereto.

Attached hereto is cash, a certified check, a cashier's check, or a bidder's bond in the amount of_____Dollars said amount being not less than 10 percent of the amount bid. Pursuant to Public Contract Code Sections 20172 and 20174, it is agreed a portion equal to the difference between the low bid and second low bid shall be retained as a bid bond forfeiture by the City if the undersigned fails or refuses to execute the Contract and furnish the required bonds and certificates of insurance within the time provided.

_____
Name of Bidder

_____
Signature of Bidder

BID PROPSOAL

PROJECT NO. JN 530 Phase 1

ACKNOWLEDGEMENT OF ADDENDA RECEIVED

The Bidder shall acknowledge the receipt of addenda by number and date each addendum received.

Addendum No.____Date_____Addendum No._____Date _____

Addendum No.____Date_____Addendum No._____Date _____

Addendum No.____Date_____Addendum No._____Date _____

Addenda will be issued only through the ARC Document Solutions and access under their "Planrooms"/"Order From Planwell" (https://www.e-arc.com/location/costa-mesa/). It is the Bidder's sole responsibility to visit the Planroom to obtain and administer any Addendum related to this bid. **An Addendum must be acknowledged above by a bidder in its submitted form of Proposal.**

If an addendum or addenda has been issued by the City and not noted above as being received by the Bidder, the Bid Proposal may be rejected.

_____ _____

Bidder's Signature Date

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

BIDDER'S DECLARATION

It is understood and agreed that:

1. The undersigned has carefully examined all documents which will form a part of the Contract; namely, the Notice Inviting Bids, the Instructions to Bidders, this Proposal, the Bid Bond, the Contract, the Faithful Performance Bond, the Payment Bond, the federal requirements, if any, the Plans and Specifications, the Special Provisions, and the Technical Provisions.

2. The undersigned has, by investigation at the site of the work and otherwise, satisfied himself as to the nature and location of the work and fully informed himself as to all conditions and matters, which can in any way affect the work or the cost thereof.

3. The undersigned fully understands the scope of work and has checked carefully all words and figures inserted in this Proposal and he further understands that the City will not be responsible for any errors or omissions in the preparation of the Proposal.

4. The undersigned agrees and acknowledges that he is aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and that the undersigned will comply with such provisions before commencing the performance of the Contract if it is awarded to the undersigned.

The undersigned will execute the Contract and furnish the required statutory bonds and certificates of insurance within the period of time specified in the Contract Documents.

The undersigned will begin work after award of Contract and a Notice to Proceed has been given as herein specified and will complete said work within the time specified in the Bidding Schedule.

5. The undersigned certifies that this Proposal is genuine and not sham or collusive, or made in the interest or on behalf of a person not herein named, and the undersigned has not directly or indirectly induced or solicited any other bidder to put in a sham bid nor induced any other person, firm, or corporation to refrain from bidding. The undersigned has not in any manner sought by collusion to secure for himself any advantage over any other bidder.

6. The undersigned will accept an award and enter into a Contract for all work scheduled herein on which he puts in a bid. The awards for such work are to be entirely at the discretion of the City after evaluation of the bids as submitted. The undersigned agrees that the City shall recover or retain as a bid bond forfeiture an amount equal to the difference between the low bid and amount of the bid of the bidder with whom the City enters into a Contract, and the surplus, if any, shall be returned to the lowest bidder in accordance with the provisions of the Public Contract Code Sections 20172 and 20174 in the event of his failure to execute a Contract and furnish required bonds and insurance therefor within the time provided.

BIDDER'S DECLARATION (Continued)

7. The undersigned bidder stated under penalty of perjury that the representations made in submitting this bid are, to the best of his/her knowledge, true, accurate, and complete.

Respectfully submitted,

Contractor's Business Name	Contractor (Print) Title
Business Address: Street	Signature Title
City State Zip	Contractor's License No. and Classification
Business Phone Number	Business Fax Number
Date	
Name Title	Residence: Street
City State Zip	Residence Phone Number

Note: If the bid is made by an individual, it must be signed with the full name of the bidder, whose address must be given: if it is made by a firm, it must be signed in the co-partnership's name by a general partner thereof, who shall also sign his or her own name, and the name and full address of each partner (general and/or limited) must be given; and if it is made by a corporation, it must be signed by a properly authorized officer, the corporate name shall be set forth, and the corporate seal shall be affixed.

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

NON-COLLUSION AFFIDAVIT

(To be executed by Bidder and submitted with Bid)

State of California

County of Los Angeles

_____being first duly sworn, deposes and says that he or she is_____of _____ _____the party making the foregoing bid, that the bid is not made in the interest of, or on the behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay fee to any corporation, or agent thereof to effectuate a collusive or sham bid.

_____
NAME OF BIDDER

_____
SIGNATURE OF BIDDER

_____
ADDRESS OF BIDDER

_____
CITY STATE ZIP

ALL SIGNATURES MUST BE WITNESSED BY NOTARY
(attach appropriate jurats)

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

DECLARATION OF ELIGIBILITY TO CONTRACT

[Labor Code Section 1777.1; Public Contract Code Section 6109]

The undersigned, a duly authorized representative of the contractor, certifies and declares that:

1. The undersigned contractor is aware of Sections 1777.1 and 1777.7 of the California Labor Code, which prohibit a contractor or subcontractor who has been found by the Labor Commissioner or the Director of Industrial Relations to be in violation of certain provisions of the Labor Code, from bidding on, being awarded, or performing work as a subcontractor on a public works project for specified periods of time.

2. The undersigned contractor is not ineligible to bid on, be awarded or perform work as a subcontractor on a public works project by virtue of Sections 1771.1 or 1777.7 of the California Labor Code or any other provision of law.

3. The undersigned contractor is aware of California Public Contract Code Section 6109, which states:

> "(a) A public entity, as defined in Section 1100 [of the Public Contract Code], may not permit a contractor or subcontractor who is ineligible to bid or work on, or be awarded, a public works project pursuant to Section 1777.1 or 1777.7 of the Labor Code to bid on, be awarded, or perform work as a subcontractor on, a public works project. Every public works project shall contain a provision prohibiting a contractor from performing work on a public works project with a subcontractor who is ineligible to perform work on the public works project pursuant to Section 1771.1 or 1777.7 of the Labor Code."
>
> "(b) Any contract on a public works project entered into between a contractor and a debarred subcontractor is void as a matter of law. A debarred subcontractor may not receive any public money for performing work as a subcontractor on a public works contract, and any public money that may have been paid to a debarred subcontractor by a contractor on the project shall be returned to the awarding body. The contractor shall be responsible for the payment of wages to workers of a debarred subcontractor who has been allowed to work on the project."

4. The undersigned contractor has investigated the eligibility of each and every subcontractor the undersigned contractor intends to use on this public works project, and has determined that none of them are ineligible to perform work as a subcontractor on a public works project by virtue of the foregoing provisions of the Public Contract Code, Sections 1771.1 or 1777.7 of the Labor Code, or any other provision of law.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed this_____day of _____, 20_____, at _____(place of execution), California_____.

Signature:_____Name: _____

Title:_____Company: _____

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

THAT_____, as Principal, and_____, as Surety, are held firmly bound unto the City of Gardena in the sum of $_____; _____DOLLARS,
(not less than ten percent of total amount of bid)
for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a bid to the City to perform all work required under the following:

PROJECT: ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING
JN 530

NOW, THEREFORE, if said Principal is awarded a Contract by the City and, within the time and in the manner required in the Specifications for said project, enters into the written form of Contract bound with said Specifications and furnishes the required bonds, one to guarantee faithful performance and the other to guarantee payment for labor and materials, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by the City and judgment is recovered, said Surety shall pay all costs incurred by the City in such suit, including a reasonable attorneys' fee to be fixed by the court. Surety hereby waives the provisions of California Civil Code §2845.

SIGNED AND SEALED, this_day of_____, 20_____.

_____(SEAL) _____(SEAL)
Principal Surety

BY:_____ BY:_____
Signature Signature

Note: This bond must be dated, all signatures must be notarized, and evidence of the authority of any person signing as attorney–in-fact must be attached.

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

DESIGNATION OF SUBCONTRACTORS

In compliance with the "Subletting and Subcontracting Fair Practices Act" being Sections 4100- 4113 of the Public Contract Code of the State of California, and any amendments thereto, each bidder shall set forth below the name and location of the place of business of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement in an amount in excess of one-half (1/2) of one percent (1%) of the prime contractor's total bid, and shall further set forth the portion of the work which will be done by each subcontractor. Only one subcontractor for each such portion shall be listed.

If the contractor fails to specify a subcontractor for any portion of the work to be performed under the contract, he shall be deemed to have agreed to perform such portion himself, and he shall not be permitted to subcontract that portion of the work except under the conditions hereinafter set forth.

Subletting or subcontracting of any portion of the work to which subcontractor was designated in the original bid shall only be permitted in cases of public emergency or necessity, and then only after a finding reduced to writing as a public record of the legislative body of the City.

Portion of Work %	Subcontractor's Name & Address	Type of Work	State License Number	Class	D.I.R. Number

Not more than **70** %.

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

CONSTRUCTION PROJECT REFERENCE

In order to more fully evaluate your background and experience for the project herein proposed, please submit a list of Public Works and/or similar construction projects completed or in progress within the last three (3) years. Failure to provide this information may constitute grounds for rejection of your bid as non-responsive.

Number of years as a contractor in construction work of this type: _____

Three projects of this type recently completed:

1. Name (Firm/Agency): _____
   Address: _____
   Contact Person: _____ Telephone No.: _____
   Title of Project: _____

   Project Location: _____
   Date of Completion: _____ Contract Amount: $_____

2. Name (Firm/Agency): _____
   Address: _____
   Contact Person: _____ Telephone No.: _____
   Title of Project: _____

   Project Location: _____
   Date of Completion: _____ Contract Amount: $_____

3. Name (Firm/Agency): _____
   Address: _____
   Contact Person: _____ Telephone No.: _____
   Title of Project: _____

   Project Location: _____
   Date of Completion: _____ Contract Amount: $_____

NOTE: If requested by the City, the bidder shall furnish a certified financial statement, references, and other information sufficiently comprehensive to permit an appraisal of his current financial condition.

Bidder's Signature _____

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

CERTIFICATE OF NON-DISCRIMINATION BY CONTRACTORS

As suppliers of goods or services to the City, the firm listed below certifies that it does not discriminate in its employment with regard to race, color, religion, sex, or national origin; that it is in compliance with all applicable federal, state, and local directives, and executive orders regarding non-discrimination in employment; and that it agrees to pursue positively and aggressively the principle of equal opportunity in employment.

We agree specifically:

1. To establish or observe employment policies which affirmatively promote opportunities for minority persons at all job levels.

2. To communicate this policy to all persons concerned, including all company employees, outside recruiting services, especially those serving minority communities, and to the minority communities at large.

3. To take affirmative steps to hire minority employees within the company.

FIRM_____

TITLE OF PERSON SIGNING_____

SIGNATURE_____

DATE_____

Please include any additional information available regarding equal opportunity employment programs now in effect within your company:

_____

_____

_____

_____

_____

_____

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION – PRIMARY COVERED TRANSACTIONS

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS ON NEXT PAGE)

The Contractor shall not perform Work with any Subcontractor that has been debarred or suspended pursuant to California Labor Code Section 1777.1 or any other federal or State law providing for the debarment of contractors from public works. The Contractor and Subcontractors shall not be debarred or suspended throughout the duration of the Contract pursuant to Labor Code Section 1777.1 or any other federal or State law providing for the debarment of contractors from public works. If the Contractor or any Subcontractor becomes debarred or suspended during the duration of the Project, the Contractor shall immediately notify the City.

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

    a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

    b. Have not within a 5-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, or receiving stolen property;

    c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and

    d. Have not within a 5-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Signature:_____Name: _____

Title:_____Company: _____

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION – PRIMARY COVERED TRANSACTIONS (Continued)

INSTRUCTIONS FOR CERTIFICATION

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.
4. The prospective primary participant shall provide immediate written notice to the department or agency to which this proposal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations (13 CFR Part 145).
6. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.
7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-- Lower Tier Covered Transactions," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the ineligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

CONTRACT DOCUMENTS (CD)

ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING

PROJECT NO. JN 530 Phase 1

To be Submitted
within twenty-one (21) calendar days

AFTER
Award of Contract

CONTRACT DOCUMENT

PROJECT NO. JN 530 Phase 1

AGREEMENT

THIS AGREEMENT, made and entered into this_____day of_____, 20_____, by and between CITY OF GARDENA in the State of California, hereinafter referred to as "CITY" and_____, hereinafter referred to as "CONTRACTOR."

The City and the Contractor mutually agree as follows:

ARTICLE I.

THE PROJECT

For and in consideration of the mutual promises set forth herein, Contractor agrees to perform and complete in a good and workmanlike manner all work required by the Contract Documents for City Project No. JN 530 Phase 1 , which is described as follows:

TITLE: ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING

Said work shall be performed in accordance with the Plans, Specifications and other Contract Documents, all of which are referenced in Article III hereof and incorporated herein as though fully set forth. Contractor shall furnish at its own expense all labor, materials, equipment and services necessary therefor, except such labor, materials, equipment and services as are provided in the Contract Documents to be furnished by City.

This project is subject to Skilled and Trained Workforce Requirements per Sections 2600 through 2603 of the Public Contract Code.

ARTICLE II.

CONTRACT SUM AND PAYMENT

For performing and completing the work in accordance with the Contract Documents, City shall pay Contractor, in full compensation therefor, the contract sum set forth in the Bidding Schedule. Said sum shall constitute payment in full for all work performed hereunder, including, without limitation, all labor, materials, equipment, tools and services used or incorporated in the work, supervision, administration, overhead, expenses and any and all other things required, furnished or incurred for completion of the work as specified in the Contract Documents. City shall make payments to Contractor on account of the contract sum at the time, in the manner, and upon the conditions specified in the Contract Documents.

ARTICLE III.

CONTRACT DOCUMENTS

The Contract Documents, which constitute the entire agreement between the City and the Contractor, are enumerated as follows: Proposal Documents, including the Notice Inviting Bids, Instructions to Bidders, Bidding Schedule, Bidder's Declaration, Designation of Subcontractors, Bidder's Assurance, and Fair Employment Practices documents; this Agreement; Standard Specifications; Special Provisions; Technical Provisions; Drawings; Plans; and all addenda issued prior to and all modifications issued after the execution of this Agreement. These form the Contract, and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

ARTICLE IV.

EFFECTIVE DATE

This Agreement shall become effective and commence as of the date set forth below on which the last of the parties, whether City or Contractor, executes said Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed and attested by their proper officers thereunto duly authorized.

CITY

_____
Tasha Cerda, Mayor

Date: _____
Seal:

CONTRACTOR

_____
Name & Title

Sign: _____
Date:

SECOND SIGNATURE: (Contractor)

_____
Name & Title

ATTEST:

Sign: _____
Date:

_____
Mina Semenza, City Clerk

Date: _____

APPROVED AS TO FORM:

_____
Carmen Vasquez, City Attorney

Date: _____

CONTRACT DOCUMENT

PROJECT NO. JN 530 Phase 1

FAITHFUL PERFORMANCE BOND

WHEREAS, the City of Gardena has awarded to _____, hereinafter designated as the "Principal", a Contract for:

PROJECT: ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING
JN 530

WHEREAS, said Principal is required under the terms of said Contract to furnish a bond for the faithful performance of said Contract;

NOW, THEREFORE, we, _____
as Principal, and _____
as Surety, are held and firmly bound unto the City in the sum of _____
_____
Dollars ($_____), this amount being not less than one hundred percent (100%) of the total Contract price, lawful money of the United States of America, for payment of which sum well and truly to be made we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents. In case suit is brought upon this bond, the Surety will pay all court costs and reasonable attorneys' fees to the City of Gardena in an amount to be fixed by the court.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if the hereby bounded Principal, his or its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, well and truly keep and perform all the undertakings, terms, covenants, conditions and agreements in the said Contract and any alteration thereof, made as therein provided, all within the time and in the manner therein designated and in all respects according to their true intent and meaning, then this obligation shall become null and void; otherwise, it shall be and remain in full force and effect.

FURTHER, the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, addition, or modification to the terms of the Contract, or of the work to be performed thereunder, or the specifications for the same, shall in any way affect its obligations under this bond, and it does hereby waive notice of any such change, extension of time, alteration, addition, or modification to the terms of the Contract or to the work or to the specifications thereunder. Surety hereby waives the provisions of California Civil Code §§ 2845 and 2849. The City is the principal beneficiary of this bond and has all rights of a party hereto.

This bond shall remain in full force and effect for a warranty period of one full year after acceptance of the job by the City.

IN WITNESS WHEREOF, three (3) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and

Surety named herein, on the____day of_____, 20__, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

[PRINCIPAL]

By _____

Title _____

_____

Signature

[SURETY]

By _____

Title _____

Address _____

_____

Phone No. _____

_____

Signature

All signatures must be notarized.

Appropriate modifications shall be made to this form if the bond is being furnished for the performance of an act not provided for by agreement.

Corporations must affix corporate seal.

CONTRACT DOCUMENT

PROJECT NO. JN 530 Phase 1

PAYMENT BOND

WHEREAS, the City of Gardena has awarded to_____, as Contractor, a contract for the work described as follows:

PROJECT: ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING
JN 530

AND WHEREAS, said Contractor is required to furnish a bond in connection with said contract, to secure the payment of claims of laborers, mechanics, materialmen and other persons, as provided by law;

NOW, THEREFORE, we, the undersigned Contractor and Surety, are held firmly bound unto the City in the sum of_____ _____, Dollars ($ _____) this amount being not less than one hundred percent (100%) of the total Contract price, for which payment well and truly to be made we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if said Contractor, its heirs, executors, administrators, successors, assigns, or subcontractors shall fail to pay any of the persons named in Civil Code Section 3181, or amounts due under the Unemployment Insurance Code with respect to work or labor performed under the contract, or any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the Contractor and its subcontractors pursuant to Section 13020 of the Unemployment Insurance Code, or any other amounts due to persons under any applicable project contract or law, with respect to such work and labor, then the Surety or Sureties herein will pay for the same in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In case suit is brought upon this bond, the said Surety will pay all court costs and reasonable attorneys' fees to the plaintiff(s) and City in an amount to be fixed by the court.

This bond shall inure to the benefit of any of the persons named in Civil Code Section 3181 as to give a right of action to such persons or their assigns in any suit brought upon this bond.

Further, the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, addition, or modification to the terms of the Contract, or of the work to be performed thereunder, or the specifications for the same, shall in any way affect its obligations under this bond, and it does hereby waive notice of such change, extension of time, alteration, addition, or modification to the terms of the Contract or to the work or to the specifications thereunder. Surety hereby waives the provisions of California Civil Code §§ 2845 and 2849.

This bond shall remain in full force and effect for six full months after the period in which verified claims may be filed as provided for in Section 3184 of the California Civil Code.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this___day of _____20_____.

[PRINCIPAL]

By _____

Title _____

_____

Signature

[SURETY]

By _____

Title _____

Address _____

_____

Phone No. _____

_____

Signature

All signatures must be notarized.

Appropriate modifications shall be made to this form if the bond is being furnished for the performance of an act not provided for by agreement.

Corporations must affix corporate seal.

CONTRACT DOCUMENT

PROJECT NO. JN 530 Phase 1

WORKER'S COMPENSATION INSURANCE CERTIFICATE

The Contractor shall execute the following form as required by the California Labor Code, Sections 1860 and 1861:

> I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of the Contract.

DATED:_____

_____
CONTRACTOR

By_____
Signature

_____
Title

ATTEST:

By_____
Signature

_____
Title

CONTRACT DOCUMENT

PROJECT NO. JN 530 Phase 1

INDEMNIFICATION AND HOLD HARMLESS AGREEMENT AND WAIVER OF SUBROGATION AND CONTRIBUTION

ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING

To the fullest extent permitted by law, Indemnitor hereby agrees, at its sole cost and expense, to defend, protect, indemnify, and hold harmless the City of Gardena and its respective elected officials, officers, attorneys, agents, employees, volunteers, successors, and assigns (collectively "Indemnitees") from and against any and all damages, costs, expenses, liabilities, claims, demands, causes of action, proceedings, expenses, judgments, penalties, liens, and losses of any nature whatsoever, including fees of accountants, attorneys, or other professionals and all costs associated therewith (collectively "Liabilities"), arising or claimed to arise, directly or indirectly, out of, in connection with, resulting from, or related to any act, failure to act, error, or omission of Indemnitor or any of its officers, agents, servants, employees, subcontractors, materialmen, suppliers or their officers, agents, servants or employees, arising or claimed to arise, directly or indirectly, out of, in connection with, resulting from, or related to the above-referenced contract, agreement, license, or permit (the "Agreement") or the performance or failure to perform any term, provision, covenant, or condition of the Agreement, including this indemnity provision. This indemnity provision is effective regardless of any prior, concurrent, or subsequent active or passive negligence by Indemnitees and shall operate to fully indemnify Indemnitees against any such negligence. This indemnity provision shall survive the termination of the Agreement and is in addition to any other rights or remedies which Indemnitees may have under the law. Payment is not required as a condition precedent to an Indemnitee's right to recover under this indemnity provision, and an entry of judgment against an Indemnitee shall be conclusive in favor of the Indemnitee's right to recover under this indemnity provision. Indemnitor shall pay Indemnitees for any attorney fees and costs incurred in enforcing this indemnification provision. Notwithstanding the foregoing, nothing in this instrument shall be construed to encompass (a) Indemnitees' sole negligence or willful misconduct to the limited extent that the underlying Agreement is subject to Civil Code 2782(a), or (b) the contracting public agency's active negligence to the limited extent that the underlying Agreement is subject to Civil Code 2782(b). This indemnity is effective without reference to the existence or applicability of any insurance coverages which may have been required under the Agreement or any additional insured endorsements which may extend to Indemnitees.

Indemnitor, on behalf of itself and all parties claiming under or through it, hereby waives all rights of subrogation and contribution against the Indemnitees, while acting within the scope of their duties, from all claims, losses and liabilities arising out of or incident to activities or operations performed by or on behalf of the Indemnitor regardless of any prior, concurrent, or subsequent active or passive negligence by the Indemnitees. Accountants, attorneys, or other professionals employed by Indemnitor to defend Indemnitees shall be selected by Indemnitees.

In the event there is more than one person or entity named in the Agreement as an Indemnitor, then all obligations, liabilities, covenants and conditions under this instrument shall be joint and several.

"Indemnitor"

Company/Contractor _____

Name & Title _____

Signature & Date _____

CONTRACT DOCUMENT

PROJECT NO. JN 530 Phase 1

INSURANCE

CERTIFICATION OF INSURANCE (COI) SHALL BE SUBMITTED BY THE CONTRACTOR

1. **COMMENCEMENT OF WORK**. Contractor shall not be authorized to commence Work under this Contract until it has obtained approved insurance. Before beginning Work hereunder, during the entire period of this Contract, for any extensions hereto, and for periods after the end of this Contract as may be indicated below, Contractor must have and maintain in place not less than the insurance coverages required in this Section at his sole cost and expense. Contractor's insurance shall comply with all items specified by this Contract. Any subcontractors shall be subject to all of the requirements of this Section and Contractor shall be responsible to obtain evidence of insurance from each subcontractor and provide it to City before the subcontractor commences work. Alternatively, Contractor's insurance may cover all subcontractors. The insurance requirements are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by Contractor under this Contract.

2. **INSURANCE COMPANY REQUIREMENTS.** All insurance policies used to satisfy the requirements imposed hereunder shall be issued by insurers admitted to do business in the State of California. Insurers shall have a current Best's rating of not less than A-:VII, unless otherwise approved by City.

3. **COVERAGES, LIMITS AND POLICY REQUIREMENTS.** Contractor shall maintain the types of coverages indicated below:

4. **COMPREHENSIVE GENERAL LIABILITY INSURANCE.** A policy of comprehensive general liability insurance written on a per occurrence basis in an amount not less than either one million dollars ($1,000,000) per occurrence or two million dollars ($2,000,000) aggregate.

5. **COMMERCIAL AUTO LIABILITY INSURANCE.** A policy including all coverages provided by and to the extent afforded by Insurance Services Office form CA 0001, ed. 12/93, including Symbol 1 (any auto) with no special limitations affecting City. The minimum auto insurance coverage shall be one million dollars ($1,000,000) combined single limit per accident.

6. **WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE**. A policy which meets all statutory benefit requirements of the Labor Code, or other applicable law, of the State of California. The minimum coverage limits for said insurance shall be no less than one million dollars ($1,000,000) per claim. The policy shall be issued by an insurance company which is admitted to do business in the State of California and shall contain a clause that the policy may not be canceled without thirty (30) days prior written notice, return receipt requested, is mailed to City.

   In accordance with the provisions of section 1860 of the California Labor Code, Contractor's attention is directed to the requirement that in accordance with the provisions of section 3700 of the California Labor Code, Contractor and every subcontractor will be required to secure the payment of compensation of his or her employees, or obtain a certificate of

consent to self-insurance by the Director of Industrial Relations in accordance with the requirements of Section 3700 of the California Labor Code.

In accordance with the provisions of section 1861 of the California Labor Code, Contractor shall sign and file with the awarding body the following certification prior to performing any work on the Project:

> "I am aware of the provisions of section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract."

7. **POLICY REQUIREMENTS.** The policies set forth above shall comply with the following, as evidenced by the policies or endorsements to the policies:

   (i) City and its appointed and elected officers, employees, agents and volunteers shall be added as additional insured to the policy as respects liabilities arising out of the performance of any work done under the Contract.

   (ii) The insurer shall agree to provide City with thirty (30) days prior written notice, return receipt requested, of any cancellation, non-renewal or material change in coverage.

   (iii) For any claims with respect to the Project covered by this Contract, Contractor's insurance coverage shall be primary insurance as respects City and its elected and appointed officers, employees, agents and volunteers. Any insurance or self-insurance maintained by City and its elected and appointed officers, employees, agents and volunteers shall be excess of Contractor's insurance and shall not contribute with it.

   (iv) The policy shall apply separately to each insured against whom claim is made or suit is brought except with respect to the limits of the company's liability.

8. **COURSE OF CONSTRUCTION INSURANCE**. Contractor shall provide course of construction insurance covering for "all risks" of loss in the amount of the completed value of the Work. The City shall be named as a loss payee and the insurer shall waive all rights of subrogation against the City. This policy shall be issued by an insurance company which is admitted to do business in the State of California and shall contain a clause that the policy may not be canceled until thirty (30) days written notice, return receipt requested, is mailed to the City. Course of Construction Insurance may be provided for each separate Phase.

9. **ADDITIONAL REQUIREMENTS.** The procuring of required insurance shall not be construed to limit Contractor's liability hereunder nor to fulfill the indemnification provisions and requirements of this Contract. City shall notify Contractor in writing of changes in the insurance requirements. If Contractor does not deposit copies of acceptable insurance policies or endorsements with City incorporating such changes within sixty (60) days of receipt of such notice, Contractor shall be deemed in default hereunder.

10. **DEDUCTIBLES.** Any deductible or self-insured retentions must be declared to and approved by City. Contractor shall guarantee that, at the option of the City, either: the insurer shall eliminate or reduce such deductibles or self-insured retentions with respect to City, its officers, employees, agents and volunteers (with additional premium, if any, to be paid by Contractor); or Contractor shall provide satisfactory financial guarantee for payment of losses and related investigations, claim administration and defense expenses in the amount of any deductibles or self-insured retentions.

11. **VERIFICATION OF COMPLIANCE.** Contractor shall furnish City with the required endorsements attached hereto. All documents are to be received and approved by City before Work commences. Not less than fifteen (15) days prior to the expiration date of any policy of insurance required by this Contract, Contractor shall deliver to City a binder or certificate of insurance with respect to each renewal policy, bearing a notation evidencing payment of the premium therefore, or accompanied by other proof of payment satisfactory to City. Contractor shall provide full copies of any requested policies to City within three (3) days of any such request by City.

12. **TERMINATION FOR LACK OF REQUIRED COVERAGE.** If Contractor, for any reason, fails to have in place, at all times during the term of this Contract, including any extension hereto, all required insurance and coverage, City may immediately obtain such coverage at Contractor's expense and/or terminate this Contract. Contractor shall indemnify, defend and hold harmless City and its elected and appointed officers, employees, agents and volunteers from any claim resulting from failure of either Contractor or any subcontractor to take out or maintain any insurance required by this Contract.

13. **EQUIPMENT COVERAGE.** Any policy or policies of insurance Contractor or his subcontractors elect to carry as insurance against loss or damage to construction equipment and tools or other personal property shall include a provision waiving the insurer's right of subrogation against City.

GENERAL PROVISIONS

ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING
JN 530

PART 1 – GENERAL PROVISIONS
SECTION 1 – GENERAL

1-1 GENERAL. The Standard Specifications for Public Works Construction ("Greenbook") written and promulgated by the Southern California Chapter of the American Public Works Association and the Southern California Districts of the Associated General Contractors of California shall be the Standard Specifications of the City. All work shall conform to the 2021 edition, including supplements of the Standard Specifications, the Special Provisions which supplement or modify the Standard Specifications, and the Standard Drawings as issued by the City (defined herein as "Agency") available at the time bids are opened unless otherwise specified in the Contract Documents.

The above referenced Standard Specifications, Special Provisions and Standard Drawings are hereby made a part of the Contract Documents.

For the convenience of the Contractor, the section and subsection numbering system used in these Special Provisions corresponds to that used in the Standard Specifications.

1-2 TERMS AND DEFINITIONS. Whenever in the Standard Specification the following terms are used, they shall be understood to mean and refer to the following:

(a)	AGENCY	The City of Gardena, a California municipal corporation.
(b)	BOARD	The City Council of the City of Gardena
(c)	CONTRACT DOCUMENTS	Documents including but not limited to the proposal forms, Standard "Greenbook" Specifications, Special Provisions, Technical Provisions, Notice Inviting Bids, Instructions to Bidders, Bonds, Insurance, Contract and all Addenda setting forth any modifications of the documents.
(d)	ENGINEER	The City of Gardena Director of Public Works/City Engineer or his authorized representative.
(e)	BIDDER	An individual, co-partnership, association or corporation submitting a proposal for the work contemplated, acting directly or through a duly authorized representative.
(f)	LEGAL ADDRESS OF CONTRACTOR	The legal address of the Contractor to be the address given on the Contractor's bid and is hereby designated as the place to which all notices, letters or other communications to the Contractor shall be mailed or delivered.
(g)	LABORATORY	An established laboratory approved and authorized by the Engineer for testing materials and work involved in the contract.

1-7 AWARD AND EXECUTION OF THE CONTRACT.

1-7.1 General. The proposal shall be fully executed and submitted on the forms provided by the Agency and shall be enclosed in a sealed envelope marked and addressed as directed in the "Notice Inviting Bids".

If the proposal is made by an individual, it shall be signed and his or her full name and address shall be given; if it is made by a firm it shall be signed with co-partnership name by a general partner thereof, who shall also sign his or her known name, and the name and address of each member of such co-partnership shall be given; if made by a corporation, the name of the corporation shall be signed by its duly authorized officers and attested by the corporate seal.

Bidders are warned against making erasures or alterations of any kind on their Proposal. Proposals which contain omissions, erasures, alterations, conditions or additions not called for may be rejected.

At the time the Contract is awarded by the Agency, the Contractor shall be licensed under the provisions of Chapter 9, Division 3, of the Business and Professions Code of the State of California to do the type of work contemplated in the Contract and shall be skilled and regularly engaged in the general class or type of work required by this Contract.

1-7.2 Contract Bonds. The "Performance Bond" is equivalent to City's "Faithful Performance Bond".

1-7.3 Examination of Plans, Specifications and Project Site. Bidders shall read the specifications, review the drawings and examine the existing facilities to fully understand the project in order to plan for the improvements as shown in the contract, including local condition, uncertainty of weather and all other contingencies.

Bidders shall satisfy themselves by personal examination of the proposed work sites, and by such other means as they may choose as to actual conditions and requirements and as to the accuracy of the quantities stated in the Proposal forms. Information derived from the maps, plans, specifications, profiles, drawings, or from the Engineer/Architect of the record, shall not relieve the bidder of this responsibility, and the interpretation of the data disclosed by borings or other preliminary investigations is not guaranteed nor is any liability assumed by the Agency.

1-7.4 Interpretation of Drawings and Documents. If a prospective bidder is in doubt as to the true meaning or intent of any part of the Contract Documents including the Specifications, or discovers discrepancies in, or omissions from, the Specifications or Drawings, he may submit to the Engineer a written request for an interpretation or a correction thereof. Interpretations or corrections of the Contract Documents including the Specifications and Drawings, shall be made only by addendum duly issued by the Engineer, and a copy of such addendum will be sent by certified mail, postage prepaid, or delivered to each person receiving a set of the Contract Documents whose address is known to the Engineer and such addendum shall be considered a part of and incorporated in the Contract Documents.

1-7.5 Award of Contract. After the Proposals have been publicly opened and read aloud, they will be checked for accuracy and compliance with all provisions as specified herein.

The Agency reserves the right to reject any or all bids and to waive any informality or irregularity in any bid received and to be the sole judge of the merits of the respective

bids received.

Bids subsequently shown to be mathematically unbalanced would be rejected as nonresponsive.

A mathematically unbalanced bid is one containing lump sum or unit bid items which do not reflect reasonable actual costs plus a reasonable proportionate share of the bidder's anticipated profit, overhead costs, and other indirect costs, which he/she anticipates for the performance of the items in question.

"A bid is mathematically unbalanced if the bid is structured on the basis of nominal prices for some work and inflated prices for other work; that is, each element of the bid must carry its proportionate share of the total cost of the work plus profits."

"A bid is materially unbalanced if there is a reasonable doubt that award to the bidder submitting the mathematically unbalanced bid will result in the lowest ultimate cost to the Government. Consequently, a materially unbalanced bid may not be accepted."

Award of the Contract, if it be awarded, will ordinarily be made by the Agency within 30 days after opening of the bids. Award will be made to the lowest responsive responsible bidder.

In selecting the lowest responsive responsible bidder, consideration will be given to the general competency of the bidder for the performance of the work covered by the proposal. To receive favorable consideration, a bidder may be required to present evidence that he has successfully performed similar work of comparable magnitude or submit other evidence satisfactory to the Agency that he or his associates are competent to manage the proposed undertaking and to carry it forward to a successful conclusion. Professional integrity and honesty of purpose shall be essential requirements. A showing of adequate financial resources may be required but will not alone determine whether a bidder is competent to undertake the proposed work.

Only manufacturers or contractors of established reputation, or their duly authorized dealers or agency, having proper facilities for the manufacture of the materials or equipment and for servicing same, or for proper execution of the work called for in the contract, will be considered in making the award.

1-7.6 Execution of Contract. A bidder whose proposal is accepted shall properly sign a written contract with the Agency on the form attached hereto and return said contract together with good and approved bonds and insurance certificates as required by the Contract Documents within twenty-one (21) calendar days from the date of the mailing of a notice from the Agency to the bidder, according to the address given by him, of acceptance of his proposal.

Contract bonds and certificates of insurance, if required, shall be filed in all instances before delivering any equipment, materials, or performing any work under the contract; also before any purchase order shall be issued. An executed Power of Attorney form shall be submitted with all contract bonds herein specified.

If a bidder whose proposal is accepted fails or refuses to enter into a contract as herein provided, or to conform to any stipulated requirement in connection therewith, the money represented by his check or bidder's bond shall be refunded less the difference between the low bid and the bid of the bidder with whom the Agency enters into an agreement in accordance with the provisions of the Public Contracts Code Section 20174. At the discretion of the Agency, an award may be made to the bidder whose proposal is next most acceptable to the Agency, and such bidder and his surety shall fulfill every stipulation embraced herein as if he were the party to whom the first award was made.

A corporation to which an award is made may be required before the contract is finally signed to furnish evidence of its corporate existence, of its right to do business in California and of the authority of the officer signing the contract and bonds for the corporation to so sign.

1-7.7 Return of Proposal and Guarantee. The check or bond of a bidder to whom the contract has been awarded will be returned to him after all of the acts, for the performance of which said security is required, have been fully performed. The checks or bid bonds of the second and third lowest bidders will be returned when the bidder to whom the contract has been awarded has properly executed all of the required Contract Documents. Check or bid bonds of other bidders will be returned when their proposals are rejected or in any event at the expiration of forty-five (45) days from the date of opening bids.

1-7.8 Precedence of Contract Documents. The order of precedence of contract document shall be:

FIRST	Requirements of law, including the Code and Ordinances of the City of Gardena.
SECOND	Permits from other agencies as may be required by law.
THIRD	Permits from City of Gardena Departments as may be required by law or ordinance.
FOURTH	The Contract.
FIFTH	The Bid Proposal.
SIXTH	Addenda.
SEVENTH	Notice Inviting Bids.
EIGHTH	Instructions to Bidders.
NINTH	Technical Provisions.
TENTH	Plans.
ELEVENTH	General Provisions of the Standard Specifications.
TWELFTH	Standard Plans
THIRTEENTH	Standard Specifications for Public Works Construction (current edition).
FOURTEENTH	Caltrans Standard Plans and Specifications.
FIFTEENTH	Reference Specifications.

Change orders, supplemental agreements and approved revisions to Plans and Specifications will take precedence over documents listed above, except those listed as FIRST, SECOND and THIRD. Detailed plans shall have precedence over general plans.

2-2 PERMITS. The Contractor will obtain, at no cost to the Agency, all permits necessary to perform the work on streets, highways, railways or other rights-of-ways. The Contractor shall obtain and pay for all costs incurred for permits necessitated by its operations such as, but not limited to those permits required for night work, overload, blasting and demolition. For private contracts, the Contractor shall obtain all permits incidental to the work or made necessary by its operations, and pay all costs incurred by the permit requirements.

The Contractor and each subcontractor employed upon the work must have or obtain a valid City of Gardena Business License in accordance with the provisions of the Gardena Municipal Code.

The project is subject to permit(s) from the Community Development Department. The permits are ready to be issued and the Contractor is required to pull the applicable project permits (i.e. grading, electrical, mechanical plumbing, building, etc.). The permit costs will be borne by the Contractor.

2.10 DISPUTED WORK.

2.10.1 Retention of Imperfect Work. If any portion of the work done or materials furnished under the contract proves defective or not in accordance with the specifications and contract drawings, and if the imperfection in the same is not of sufficient magnitude or importance to make the work dangerous or undesirable, or if the removal of such work is impracticable or will create conditions which are dangerous or undesirable in the opinion of the Engineer, the Engineer shall have the right and authority to retain the work instead of requiring it to be removed and reconstructed, but he shall make deductions therefor in the payment of the contract item due Contractor as may be just and reasonable.

2-11. DISPUTE RESOLUTION.

2-11.1 Requests for Contract Adjustments and Relief. If either Contractor or the Agency believes that it is entitled to relief against the other for any event arising out of or related to the work or Project, such party shall provide written notice to the other party of the basis for its claim for relief. Such notice shall, if possible, be made prior to incurring any cost or expense and in accordance with any specific notice requirements contained in the applicable sections of this Contract.

In the absence of any specific notice requirement, written notice shall be given within a reasonable time, not to exceed fourteen (14) days, after the occurrence giving rise to the claim for relief or after the claiming party reasonably should have recognized the event or condition giving rise to the request, whichever is later. Such notice shall include sufficient information to advise the other party of the circumstances giving rise to the claim for relief, the specific contractual adjustment or relief requested and the basis of such request.

2-11.2 Dispute Avoidance and Resolution. The parties are fully committed to working with each other throughout the Project and agree to communicate regularly with each other at all times so as to avoid or minimize disputes or disagreements. If disputes or disagreements do arise, Contractor and the Agency each commit to resolving such disputes or disagreements in an amicable, professional and expeditious manner so as to avoid unnecessary losses, delays and disruptions to the work under the Contract.

Contractor and the Agency will first attempt to resolve disputes or disagreements at the field level through discussions between Contractor's Representative and the Engineer.

If a dispute or disagreement cannot be resolved through the Contractor's Representative

and the Engineer, Contractor's Chief Executive Officer or similar senior representative and the Gardena City Manager, or designee, upon the request of the other party, shall meet as soon as conveniently possible, but in no case later than twenty (20) days after such a request is made, to attempt to resolve such dispute or disagreement. Prior to any meeting between the parties' senior representatives, the parties will exchange relevant information that will assist the parties in resolving their dispute or disagreement.

If, after meeting, the senior representatives determine that the dispute or disagreement cannot be resolved on terms satisfactory to both parties, the parties may submit the dispute to binding or non-binding mediation. The mediation shall be conducted in any manner and by any person or mediation association mutually acceptable to the parties.

2-11.3 Arbitration. Any claims, disputes or controversies between the parties arising out of or relating to the Contract, or the breach thereof, which have not been resolved in accordance with the procedures set forth in Section 2-11.2 above may be decided by binding or non-binding arbitration. The arbitration shall be conducted in any manner and by any person or arbitration association mutually acceptable to the parties.

2-11.4 Claims Disputes. Any claims of Contractor, as "claims" are defined in California Public Contract Code Section 9204 shall be processed in accordance with that section. Section 9204 provides in relevant part that upon receiving a claim from a contractor, together with reasonable documentation to support the claim, a contracting public entity shall conduct a reasonable review of the claim and, within a period not to exceed 45 days [except as otherwise provided in Section 9204], shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed.

Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, Section 2-11.3 shall apply. If the contractor disputes the public entity's written response, or if the public entity fails to respond to a claim within the time prescribed, the contractor may demand in writing an informal conference to meet and confer for settlement of the issues in dispute.

Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute. Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed.

Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the contractor sharing the associated costs equally. The public entity and contractor shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to other applicable procedures.

2-13 DRAWINGS AND SPECIFICATIONS ("RECORD" DRAWINGS). At all times, the Contractor shall maintain at the project a "Record" set of Drawings and Specifications to include all executed addenda, change orders, and field orders.

Prior to each progress payment the Contractor shall deliver to the Engineer, a set of contract drawings with all applicable “as constructed” notes placed/recorded thereon. Failure to provide “as constructed” plans will cause progress payment to be withheld until information is provided to City

After completion of the work and before final payment, the Contractor shall deliver to the Engineer a complete set of contract drawings with all applicable “as constructed” noted placed/record thereon. The final form and detail of these as constructed plans are subject to the acceptance of the Engineer. MARKING REMOVAL. All markings placed by the Contractor, City, and Underground Service Alert (USA) during construction shall be removed at the completion of the work. These markings shall include, but not limited to, paint, stakes, and metal tags.

2-14 MARKING REMOVAL. All markings placed by the Contractor, City, and Underground Service Alert (USA) during construction shall be removed at the completion of the work. These markings shall include, but not limited to, paint, stakes, and metal tags.

All cost associated with removal of markings shall be included in the bid prices for the applicable bid items. Failure of the Contractor to remove these markings shall be cause for the City to do the work and withhold the costs from the Contractor’s final payment.

SECTION 3 – CONTROL OF THE WORK

3-5 INSPECTION. Inspection shall be made once a day for areas ready for inspection. Areas or items that fail inspection or that are not ready for inspection shall be rescheduled by the contractor.

Inspection of the work shall not relieve the contractor of the obligation to fulfill all conditions and requirements of the contract.

3-6 THE CONTRACTOR’S REPRESENTATIVE. The Contractor shall furnish the Engineer with the name, address and cell/ business/home telephone numbers of the person responsible for the maintenance of barricades, traffic control signs, lights and other safety devices.

3-10 SURVEYING.

3-10.3 Line and Grade. Unless otherwise provided in the Technical Provisions, establishing lines and grades for construction shall be the responsibility of the Contractor, with the following provisions:

All work under this contract shall be built in accordance with the lines and grades shown on the plans. Field survey for establishing these, and for the control of construction, shall be the responsibility of the Contractor. All such surveys, including construction staking, shall be performed on all items ordinarily requiring grade and alignment, at intervals normally accepted by the agencies and trade involved.

The Contractor shall provide a copy of the office calculations and grade sheets to the Agency’s Inspector. The Contractor shall be responsible for any error in the finished work, and shall notify the Engineer within 24 hours of any discrepancies or design errors discovered during staking.

Unless a separate bid item is provided, the payment for surveying, construction staking,

professional services, office calculations, furnishing all labor, materials, equipment, tools and incidentals, and for doing all work involved shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

3-10.4 Permanent Survey Markers. The Contractor is required to locate and tie out survey monuments in the project area prior to construction involving street and highways, or City public right of way and to file with the County Surveyor a Corner Record of any such work. Prior to final payment and the issuance of a completion certificate, the Contractor is required to file a Corner Record for survey monumentation that is replaced. All such survey work shall be performed under the supervision of a California licensed Land Surveyor or a Civil Engineer authorized to perform such work.

The Contractor shall provide the Agency a copy of the office calculations and documents submitted to the County for filing in connection with the aforementioned work. The payment for surveying, related professional services, office calculation, furnishing all labor, materials, equipment, tools and incidentals, and for doing all work involved shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

3-12 WORK SITE MAINTENANCE.

3-12.1 General. The Contractor shall keep the work site clean and free from rubbish and debris. The Contractor shall abate dust nuisance by cleaning, sweeping and sprinkling with water in keeping with the AQMD and NPDES requirements. Debris, soil or other matter shall not be washed into storm drains but shall be collected and disposed of in a legal, responsible manner. The construction area shall be cleaned with a power sweeper at the end of every workday and when deemed necessary by the Engineer.

The Contractor shall maintain drainage within and through the work areas. Earth dams will not be permitted in paved areas. Use temporary sandbags to control the site perimeter. At the completion of the project sandbags shall become the property of the City of Gardena and shall be remain in place.

The Contractor shall not spill on haul routes. Any such spillage shall be removed immediately and the area cleaned.

Stockpiling of construction materials or debris on City right-of-way shall be in accordance with the NPDES permit and shall be approved by the inspector. At the completion of work, the Contractor shall thoroughly clean all work areas.

3-12.2 Air Pollution and Surface Maintenance Control. The Contractor shall obtain a construction water meter from Golden State Water including required deposit and fees. The Contractor shall pay for the water used, at the current water rates. All arrangements for construction water shall be made by contractor with Golden State Water at Contractor expense.

3-12.4. Storage of Equipment and Material.

3-12.4.1 General. All costs associated with the disposal of all excavated or demolition materials, including any gate fees, shall be paid by the Contractor. These costs shall be included in the bid price for the applicable bid items.

Prior to any excavated or demolition material being removed from the construction site the Contractor shall notify the City as to the hauling route and destination for disposal. If the location for disposal is other than a county landfill then the Contractor shall provide the City with written permission and release of liability for the City from the owner of the property

where the material will be deposited.

The City has an exclusive agreement with Waste Resources, Inc. and no other firm may provide bulk trash bins in the event the work requires this service.

3-12.4.2 Storage in Public Streets. Construction equipment shall not be stored at the construction site, any public street or publicly owned facilities without approval of the City. Contractor shall store equipment at a contractor's rental yard.

All excavated material that is to be hauled to and disposed of at a County landfill site by the Contractor is subject to a County gate fee based on tonnage.

3-12.5.4 Protection and Restoration of Existing Improvements. Any facilities, structures, water lines, landscaping, surfaces, signs, pavement markings, painted curbs, house numbers, etc., which are damaged during construction shall be restored to the satisfaction of the City. Damaged water lines shall be repaired immediately at no additional cost to the city.

3-12.5.5 Access to Private Property. The Contractor shall be aware that business and residential access must be maintained at all times. The Contractor shall schedule operations to minimize interference with access to private property.

The main access way to any business or home shall not be completely blocked for more than one four-hour period a day except blockage shall be limited to one twenty-four (24) hour period when concrete is poured.

Temporary access ways shall be provided from the street to the main access way of all businesses and homes by use of traffic rated steel plates or any other method approved by the city.

Payment for this item shall be included in the applicable contract work item.

3-13 COMPLETION, ACCEPTANCE, AND WARRANTY.

3-13.3 Warranty. In addition to the guarantees as required in Section 1-7.2 and 3-13.3 of the Standard Specifications, the Faithful Performance Bond shall remain in full force and effect for a period of one year after acceptance of the work by the Agency to insure that defects, which may appear within said period, will be repaired, replaced, or corrected by the Contractor, at his own cost and expense, to the satisfaction of the Engineer within thirty (30) days after written notice thereof by the Agency.

SECTION 4 – CONTROL OF MATERIAL

4-1 GENERAL.

4-1.1 Warranty of Title. No materials, supplies or equipment for the work under this Contract shall be purchased subject to any chattel mortgage or under a conditional sale contract or other agreement by which an interest therein or any part thereof is retained by the seller or supplier.

The Contractor warrants clear and good title to all materials, supplies and equipment installed and incorporated in the work, and agrees upon completion of all work to deliver the premises, together with all improvements and appurtenances constructed or placed thereon by him to the Agency free from any claims, liens, encumbrances or charges, and further agrees that neither he nor any person, firm or corporation furnishing any

material or labor for work covered by the Contract shall have any right to a lien upon the premises or any improvement or appurtenance thereon; provided, that this shall not preclude the Contractor from installing metering devices or other equipment of utility companies the title of which is commonly retained by the utility company. Nothing contained in this section, however, shall defeat or impair the right of such persons furnishing materials or labor under any bond given by the Contractor for their protection, or any right under any law permitting such persons to look to funds due the Contractor, which are in the hands of the Agency.

The provisions of this section shall be inserted in all subcontractor's and material contracts, and notice of its provisions shall be given to all persons furnishing materials for the work when no formal contract is entered into regarding such materials.

Approved equal products may be submitted for the owner representative's review and approval. Contractor may request approval from owner to use or substitute products.

SECTION 5 – LEGAL RELATIONS AND RESPONSIBLITIES

5-4 INSURANCE. In lieu of Section 5-4 of the Standard Specifications, refer to the City Contract Documents Section, CD-10, for detail requirements.

5-5 ANTITRUST CLAIMS. By entry into this Contract, Contractor hereby acknowledges the terms of Section 7103.5 of the Public Contract Code and hereby offers and agrees to assign to the Agency all rights, title and interest in all causes of action it may have as outlined above.

5-7 SAFETY.

5-7.4 Hazardous Substances. As required by Public Contract Code Section 7104, if this Contract involves digging trenches or other excavations that extend deeper than four (4) feet below the surface, Contractor shall promptly, and prior to disturbance of any conditions, notify the Agency of: (1) any material discovered in excavation that Contractor believes to be a hazardous waste that is required to be removed to a Class I, Class II or Class III disposal site;
(2) subsurface or latent physical conditions at the site differing from those indicated by the Agency; and (3) unknown physical conditions of an unusual nature at the site, significantly different from those ordinarily encountered in such contract work. Upon notification, the Agency shall promptly investigate the conditions to determine whether a change order is appropriate. In the event of a dispute, Contractor shall not be excused from any scheduled completion date and shall proceed with all work to be performed under the Contract but shall retain all rights provided by the Contract and by law for making protests and resolving the dispute.

5-7.4.1 Edison Energized Conductors. Contractor hereby promises and agrees that in the performance of the work specified in this Contract, it will employ and utilized only qualified persons, as hereinafter defined, to work in proximity to Edison's secondary, primary and transmission facilities. The term "qualified person" is defined in Title 8, California Administrative Code, Section 2700, as follows:

> "Qualified Person: A person who by reason of experience or instruction is familiar with the operation to be performed and the hazards involved."
>
> Contractor further promises and agrees that the provisions of this section shall be and are binding upon any subcontractor or subcontractors that may be retained

by it, and that Contractor shall take such steps as are necessary to assure compliance by said subcontractor or subcontractors with the requirements of this section.

5-7.4.2 Emergency Provisions. Unusual conditions may arise on the work which will require that immediate and unusual provision be made to protect the public from danger or loss or damage to life and property, due directly or indirectly to the prosecution of the work, and it is part of the service required of the Contractor to make such provisions and to furnish such protection.

Whenever, in the opinion of the Agency, an emergency exists of which the Agency is aware and against which the Contractor has not taken sufficient precaution for the safety of the public or the protection of utilities or of adjacent structures or property which may be injured by the progress of construction; and whenever, in the opinion of the Agency, immediate action shall be considered necessary in order to protect public or private personnel or property interests, or prevent likely loss of human life or damage on account of the operations under the Contract, then in that event the Agency may provide suitable protection to said interests by causing such work to be done and material to be furnished, as in the opinion of the Agency may seem reasonable and necessary, all at the expense of the Contractor.

SECTION 6 – PROSECUTION AND PROGRESS OF THE WORK

6-1 CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK

6-1.1 Construction Schedule. The Contractor's proposed construction schedule shall be submitted to the Engineer within fourteen (14) calendar days after the date of the contract execution. The schedule shall be supported by written statements from each supplier of materials or equipment indicating that all orders have been placed and acknowledged and setting forth the dates that each item will be delivered.

The Contractor shall include in his bid all costs to perform the work under this contract in stages. The Contractor shall begin and complete work in each stage prior to starting work in subsequent stages unless previous permission is obtained from the Engineer. The contractor shall stage the work to allow parking on the next adjacent streets. Restricting parking on multiple adjoining streets shall require approval of the engineer.

6-1.2 Commencement of the Work. City may establish a Notice to Proceed (NTP) date no later than thirty (30) calendar days after the date of the contract execution. Prior to issuing the Notice to Proceed, the Engineer will schedule a preconstruction meeting with the Contractor to review the proposed construction schedule and delivery dates, arrange utility coordination, discuss construction methods and clarify inspection procedures.

The names, addresses and telephone numbers of the Contractor and subcontractors, or their representatives, shall be filed with the Public Works Manager and the County Sheriff's Department or the City Police Department prior to beginning work.

The Contractor shall also notify the City of Gardena and the owners of all utilities and substructures within the Project area not less than 48 hours prior to starting construction. The following utility companies list of names and telephone numbers is intended for the convenience of the contractor and is not guaranteed to be complete or correct:

COMPANY	CONTACT	TELEPHONE NO.
Southern California Edison	Manuel Vargas, Jr.	310.783.9389

Southern California Gas	Melissa Fukunaga: Tech Services Planning: Attn - Lead Planner	213.231.7281
AT&T	Marco A. Perez	626.491.5503
	Raymond Dover	310.515.4257
Gardena Police	Dispatch	310.323.7911
L.A. County Fire Dept.		310.323.7911
Time Warner Communications	Arturo Fernandez	310.750.9099
Crown Castle	Hector Aguilera	951.454.5111
Waste Resources of Gardena	Lorena Rodriguez	310.366.7600
Golden State Water Co.	John Mavrakis	562.321.1704
	Joseph Salcido	310.660.0320 x101
L.A. County Flood Control	Daryll Chenoweth	626.458.3129
L.A. Sanitation District	Jon Ganz	562.908.4288
Metropolitan Water District	Civil Eng. Substructures Section	213.217.7059
Chevron Pipeline	Dave Zerler	310.669.4014
Underground Service Alert		800.422.4133

The Contractor shall submit periodic Progress reports to the Engineer by the tenth day of each month. The report shall include an updated Construction Schedule. Any deviations from the original schedule shall be explained. Progress payments will be withheld pending receipt of any outstanding reports.

6-1.3 Working Day. The Contractor's working hours shall be limited to the hours between 7:30 A.M. and 4:30 P.M., Monday through Friday except holidays. No work which will cause loud or disruptive noise to adjacent residents and "No Parking" enforcement shall begin prior to 8:00 a.m. nor terminate later than 4:30 p.m. Deviation from normal working hours will not be allowed unless written permission has been duly obtained beforehand from the office of the City Engineer. The Contractor shall provide adequate light for proper prosecution of the work, for the safety of the workmen and the public, and for proper inspection.

If the Contractor works beyond the allowed working hours without prior written approval from the Engineer, the Contractor may be charged Five Hundred ($500) for each occurrence as required by the Engineer. The amount will be deducted from a progress payment or bond.

Contractor hereby acknowledges and shall be required to comply with the provisions of California Labor Code Section 1810 et seq. According to those sections, eight (8) hours of labor shall constitute a legal day's work. Contractor shall pay to the Agency a penalty of Twenty-Five Dollars ($25.00) for each worker employed in the execution of this Contract by Contractor, or by any Subcontractor, for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any calendar day or forty (40) hours in any one (1) calendar week, except when payment for overtime is made at not less than one and one-half (1-1/2) times the basic rate for that worker.

In the event of either a requested or emergency deviation, inspection service fees will be

charged against the Contractor. The service fees will be calculated at overtime rates including benefits, overhead and travel time. The service fees will be deducted from any amounts due to the Contractor.

6-1.4 Notice and Service Thereof. Any notice required or given by one party to the other under the contract shall be in writing and shall be dated and signed by the party giving such notice or by a duly authorized representative of such party. Any such notice shall not be effective for any purpose whatever unless served in the following manner:

Notice shall be given to the Agency by personal delivery thereof to the City of Gardena Engineer or by depositing the same in the United States mail enclosed in a sealed envelope, registered and with postage prepaid, addressed to:

Public Works Department
City of Gardena
1717 W. 162nd Street
Gardena, CA 90247-
3778

Notice shall be given to the Contractor by personal delivery thereof to said Contractor or to his authorized representative at the site of the project, or by depositing the same in the United States mail, enclosed in a sealed envelope addressed to said Contractor at the address established for the conduct of the work under this Contract, postage prepaid and registered.

Notice shall be given to the Surety, or any other person, by personal delivery to said Surety or other person, or by depositing the same in the United States Mail, enclosed in a sealed envelope addressed to such Surety or persons at the address of said Surety or persons last communicated to the party giving the notice, postage prepaid and registered.

Notification of Property Owners and Tenants - The Contractor shall notify each property owner and/or tenant in the project area in writing five (5) working days prior to the start of construction. If pedestrian or vehicular access to private property is to be blocked, the Contractor shall again notify each property owner and/or tenant in writing five (5) working days prior to construction activities. The Contractor shall provide additional notices when a lapse time occurs during each phase/segment work.

The written notice shall be submitted to the Engineer for approval prior to being delivered.

6-2 PROSECUTION OF THE WORK.

6-2.1 Contractor's Responsibility for Work. Until the formal acceptance of the work by the Agency, the Contractor shall have the charge and care thereof and shall, subject to the insurance protection furnished in accordance with the Section 1-7.6 and 5-4 hereof, bear the risk of accident, loss or damage to any part thereof by action of the elements or from any other cause, whether arising from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore and otherwise correct damages to any portion of the work occasioned by any of the above causes before its acceptance.

In case of suspension of work from any cause whatsoever, the Contractor shall be responsible for all materials and the proper temporary storage thereof.

6-1 TIME OF COMPLETION.

6-3.1 General. The contract time shall begin per the City's written notification. Work must be completed within working days specified for the project. In addition, the Contractor shall notify the City 24 hours in advance of the actual commencement of work.

No work shall be undertaken during the City's holiday closures. It is the Contractor's responsibility to determine the City's closure dates.

6-9 LIQUDATED DAMAGES. The amount of liquidated damages is hereby amended to **$500** for each consecutive calendar day.

SECTION 7 – MEASUREMENT AND PAYMENT

7-1 MEASUREMENT OF QUANTITIES FOR UNIT PRICE WORK.

7-1.2 Method of Measure. The quantities shown on the Bid Schedule are approximate only. The Contractor will be paid for the actual quantities of work based on approved field measurements as provided for in these Specifications. The City reserves the right to increase or decrease the amount of any item or portion of work to be performed or materials furnished, or to delete any item, in accordance with the Specifications. Additional bid item work shall be completed within the total working days in these specifications. Additional working days maybe allowed with the approval of the engineer.

7-3 PAYMENT.

7-3.2 Partial and Final Payment. The Engineer will authorize monthly partial/progress payments per Section 7-3.2 of the Standard Specifications. Contractor's monthly invoice shall be submitted on company letterhead. Each invoice submitted shall include: project name, date of invoice, progress payment number, and purchase order number. All bid items shall be included on each invoice and include unit, unit price bid, original quantity, amount, previous payment quantity and amount, current invoice payment quantity and amount, total project payment quantity and amount. In addition, any approved change orders shall be listed on invoice. Payment to Contractor typically takes 30 days from submittal of approved invoice. However, payments will be withheld pending receipt of any outstanding reports required by the Contract Documents.

7-3.3 Delivered Materials. The City will NOT honor or make any progress payments for materials ordered and delivered to the job site by the Contractor unless prior approval is obtained from the Engineer.

7-4 PAYMENT FOR EXTRA WORK.

7-4.3 EXTRA WORK. When work is performed on a "time and materials" basis, the following percentages shall be added to the Contractor's cost and shall constitute the markup for all overhead and profits:

1) Labor 20
2) Materials 15
3) Equipment Rental 15
4) Other Items and Expenditures 15

To the sum of the costs and markups provided for in this section, 1 percent shall be added as compensation for bonding.

When all or any part of the extra work is performed by a Subcontractor, the markup established above shall be applied to the Subcontractor's actual cost of such work. A markup of 10 percent on the first $5,000 of the subcontracted portion of the extra work and a markup of 5 percent on work added in excess of $5,000 of the subcontracted portion of the extra work may be added by the Contractor.

SECTION 8 – FACILITIES FOR AGENCY PERSONNEL

8-2 FIELD OFFICE FACILITIES. The Contractor shall provide the class of field office indicated below:

☐ Class "A" ☐ Class "B" ☐ Class "C"

In the event none of the boxes are marked above, no specific field office will be required, and the use therefor of any field office will be at the Contractor's discretion. The location of any field office shall be as provided on the plans, in these Specifications or as designated by the Engineer.

END OF GENERAL PROVISIONS

TECHNICAL PROVISIONS

ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING
JN 530

CONSTRUCTION SPECIFICATIONS INSTITUDE (CSI)

00 00 00-0 – GENERAL

PREFACE: All work and materials shall conform to the CSI Technical Provisions.

Incidental Work - All work and materials required by the plans and specifications, and not specifically listed in the bid schedule items of work, shall be considered incidental and no additional payment shall be made therefore. Incidental items shall include but are not limited to implementation of the Best Management Practices for the protection of storm drain structures; temporary facilities and controls; contract closeout; tree and landscape preservation; insurance and bonds; all other general provisional items (Section 1 through 8).

SECTION 01 33 00 SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 SUMMARY

A. This Section includes administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

B. See Division 1 Section "Contract Closeout " for submitting warranties.

1.2 DEFINITIONS

A. Action Submittals: Written and graphic information that requires Owner’s Representative's responsive action.

B. Informational Submittals: Written information that does not require Owner’s Representative's responsive action.

1.3 SUBMITTAL PROCEDURES

A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.

1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.

2. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.

a. Owner’s Representative reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

b. Confirm that all submittals are complete prior to forwarding to the Owner’s Representative for review.

B. Processing Time: Allow enough time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Owner’s Representative's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.

1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Owner’s Representative will advise Contractor when a submittal being processed must be delayed for coordination.

2. Resubmittal Review: Allow 15 days for review of each resubmittal.

C. Identification: Each submittal requires a transmittal. Number sequentially according to specification section.

1. Indicate name of firm or entity that prepared each submittal.

2. Provide a space to record Contractor's review and approval markings and action taken by Owner’s Representative.

3. Include the following information on the transmittal for processing and recording action taken:

a. Project name.

b. Date.

c. Name and address of Architect.

d. Name and address of Contractor.

e. Name and address of subcontractor.

f. Name and address of supplier.

g. Name of manufacturer.

h. Submittal number or other unique identifier, including revision identifier.

1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 06 10 00.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 06 10 00.01.A).

i. Number and title of appropriate Specification Section.

j. Drawing number and detail references, as appropriate.

k. Location(s) where product is to be installed, as appropriate.

l. Other necessary identification.

D. Deviations: Highlight, encircle, or otherwise specifically identify deviations from the Contract Documents on submittals.

E. Substitutions: Provide documentation per Submittal Section 1.3 including reason for substitution, including manufacturer information to determine if product meets “or equal” qualification.

F. Additional Copies: Unless additional copies are required for final submittal, and unless Owner’s Representative observes noncompliance with provisions in the Contract Documents, initial submittal may serve as final submittal.

G. Transmittal: Package each submittal individually and appropriately for transmittal and handling. Transmit each submittal using a transmittal form.

H. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.

1. Note date and content of previous submittal.

2. Note date and content of revision in label or title block and clearly indicate extent of revision.

I. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on transmittal forms.

J. Use for Construction: Use only final submittals with mark indicating Owner’s Representative’s response.

1.4 CONTRACTOR'S USE OF ARCHITECT'S CAD FILES

A. General: At Contractor's written request, copies of Architect's CAD files will be provided to Contractor for Contractor's use in connection with Project, subject to the following conditions:

1. The Architect will draft a letter limiting liability and use, requiring the (sub) contractor’s signature of compliance.

PART 2 - PRODUCTS

2.1 ACTION SUBMITTALS

A. General: Prepare and submit Action Submittals required by individual Specification Sections.

B. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.

1. If information must be specially prepared for submittal because standard printed data are not suitable for use, submit as Shop Drawings, to supplement Product Data.

2. Mark each copy of each submittal to show which products and options are applicable.

3. Include the following information, as applicable:

a. Manufacturer's written recommendations.

b. Manufacturer's product specifications.

c. Manufacturer's installation instructions.

d. Manufacturer's catalog cuts.

e. Wiring diagrams showing factory-installed wiring.

f. Printed performance curves.

g. Operational range diagrams.

h. Compliance with specified referenced standards.

i. Testing by recognized testing agency.

4. All submittals will be processed electronically through the City's on-line system – e2020. Contractor(s) and designer(s) will receive training during the preconstruction meeting. Submittals received from sources other than contractor may be returned without action.

C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.

1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:

a. Dimensions.

b. Identification of products.

c. Fabrication and installation drawings.

d. Roughing-in and setting diagrams.

e. Wiring diagrams showing field-installed wiring, including power, signal, and control wiring.

f. Shop work manufacturing instructions.

g. Templates and patterns.

h. Schedules.

i. Notation of coordination requirements.

j. Notation of dimensions established by field measurement.

k. Relationship to adjoining construction clearly indicated.

l. Seal and signature of professional engineer if specified.

m. Wiring Diagrams: Differentiate between manufacturer-installed and field-installed wiring.

2. Sheet Size: Except for templates, patterns, and similar full-size drawings, submit Shop Drawings on sheets at least 8-1/2 by 11 inches but no larger than 24 x 36" inches.

3. Drawings shall be submitted through the City electronic portal submittal system (e2020).

D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed.

1. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.

2. Identification: Attach label on unexposed side of Samples that includes the following:

a. Generic description of Sample.

b. Product name and name of manufacturer.

c. Sample source.

d. Number and title of appropriate Specification Section.

3. Disposition: Maintain sets of approved Samples at Project site, available for quality-control comparisons throughout the course of construction activity. Sample sets may be used to determine final acceptance of construction associated with

each set.

4. Samples for Initial Selection: Submit manufacturer's color samples consisting of units or sections of units showing the full range of colors, textures, and patterns available. Printed charts are not acceptable.

    a. Number of Samples: Submit one full set of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Owner's Representative will return submittal with options selected.

5. Samples for Verification: Submit full-size units or Samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected. Samples include, but are not limited to, the following: partial sections of manufactured or fabricated components; small cuts or containers of materials; complete units of repetitively used materials; swatches showing color, texture, and pattern; color range sets; and components used for independent testing and inspection.

    a. Number of Samples: Submit three sets of samples. Owner's Representative will retain one sample set; remainder will be returned.

E. Subcontract List: Prepare a written summary identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design.

1. Number of Copies: Submit three copies of subcontractor list, unless otherwise indicated. Owner's Representative will return two copies.

2.2 INFORMATIONAL SUBMITTALS

A. General: Prepare and submit Informational Submittals required by other Specification Section

1. Number of Copies: Submit two copies of each submittal, unless otherwise indicated. Owner's Representative will not return copies. If using e2020, only PDF's are necessary.

2. Certificates and Certifications: Provide a notarized statement that includes signature of entity responsible for preparing certification. Certificates and certifications shall be signed by an officer or other individual authorized to sign documents on behalf of that entity.

3. Test and Inspection Reports: Comply with requirements specified in Division 1 Section 01 40 50 "Testing and Inspection."

4. Maintenance and Operations Manuals.

5. Guarantees and Warrantees.

B. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person. Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified.

C. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in the Contract Documents. Submit record of Welding Procedure Specification (WPS) and Procedure Qualification Record (PQR) on AWS forms. Include names of firms and personnel certified.

D. Installer Certificates: Prepare written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.

E. Manufacturer Certificates: Prepare written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required.

F. Product Certificates: Prepare written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.

G. Material Certificates: Prepare written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents.

H. Material Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting test results of material for compliance with requirements in the Contract Documents.

I. Product Test Reports: Prepare written reports indicating current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.

J. Research/Evaluation Reports: Prepare written evidence, from a model code organization acceptable to authorities having jurisdiction, that product complies with building code in effect for Project.

K. Preconstruction Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.

L. Compatibility Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.

M. Field Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form, indicating and interpreting results of field tests performed either during installation of product or after product is installed in its final location, for compliance with requirements in the Contract Documents.

N. Maintenance Data: Prepare written and graphic instructions and procedures for operation and normal maintenance of products and equipment. Comply with requirements specified in Division 1 Section "Operation and Maintenance Data."

O. Design Data: Prepare written and graphic information, including, but not limited to, performance and design criteria, list of applicable codes and regulations, and calculations. Include list of assumptions and other performance and design criteria and a summary of loads. Include load diagrams if applicable. Provide name and version of software, if any, used for calculations.

P. Manufacturer's Instructions: Prepare written or published information that documents manufacturer's recommendations, guidelines, and procedures for installing or operating a product or equipment. Include name of product and name, address, and telephone number of manufacturer.

Q. Manufacturer's Field Reports: Prepare written information documenting factory-authorized service representative's tests and inspections. Include the following, as applicable:

1. Statement on condition of substrates and their acceptability for installation of product.

2. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.

3. Results of operational and other tests and a statement of whether observed performance complies with requirements.

R. Insurance Certificates and Bonds: Prepare written information indicating current status of insurance or bonding coverage. Include name of entity covered by insurance or bond, limits of coverage, amounts of deductibles, if any, and term of the coverage.

S. Material Safety Data Sheets (MSDSs): Submit information directly to Owner; do not submit to Owner’s Representative.

PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

A. Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Owner’s Representative.

B. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.

3.2 ARCHITECT'S ACTION

A. General: Architect will not review submittals that do not bear Contractor's approval stamp and will return them without action.

B. Action Submittals: Architect will review each submittal, make marks to indicate corrections or modifications required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action taken.

C. Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party.

D. Partial submittals are not acceptable, will be considered non responsive, and will be returned without review.

E. Submittals not required by the Contract Documents may not be reviewed and may be discarded.

PART 4 – "RECORDS" PRINTS

4.1 RECORD PRINTS

A. Changes: Record accurately on full size prints all changes in the Work constituting departures from the original Contract Plans. For example, changes in pressure and non-pressure irrigation line locations.

B. Legibility and Approval: The changes and dimensions shall be recorded in a legible and workmanlike manner to the satisfaction of the Owner. Prior to processing final payment application of the Work, submit "record" prints to the Owner's Representative for approval.

END OF SECTION

SECTION 01 50 00
TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.1 SUMMARY

A. The General Conditions and Division1 are a part of this Section and the Contract for this Work and apply to this Section as if repeated fully herein.

B. This Section includes requirements for temporary utilities, support facilities, and security and protection facilities.

1.2 USE CHARGES

A. General: Cost or use charges for temporary facilities shall be included in the Contract Sum. Allow other entities to use temporary services and facilities without cost, including, but not limited to Owner, Owner's Representative, testing agencies, and authorities having jurisdiction.

B. Water Service: Water from Owner's existing water system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.

C. Electric Power Service: Electric power from Owner's existing system is available for use without metering and without payment of use charges. Provide connections and extensions of services as required for construction operations.

1.3 SUBMITTALS

A. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.

1.4 QUALITY ASSURANCE

A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.

B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.

1.5 PROJECT CONDITIONS

A. Temporary Use of Permanent Facilities: Installer of each permanent service shall assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

PART 2 PRODUCTS

2.1 MATERIALS

A. Pavement: Comply with Divisions 03 & 32.

B. Portable Chain-Link Project Fencing: Minimum 2-inch (50-mm), 9-gage, galvanized steel, chain-link fabric fencing; minimum 6 feet (1.8 m) high with galvanized steel pipe posts; minimum 2-3/8-inch- (60-mm-) OD line posts and 2-7/8-inch-
(73-mm-) OD corner and pull posts, with 1-5/8-inch- (42-mm-) OD top and bottom rails. Provide galvanized steel bases for supporting posts.

C. Windscreen: Provide 85% green opacity construction windscreen within limits of construction.

2.2 TEMPORARY FACILITIES

A. Sanitary Facilities for Construction Personnel: Provide temporary toilets, wash facilities, and drinking water for

use of construction personnel. Comply with authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

B. Sanitary Facilities for Public: For the entire duration of construction, provide one (1) ADA accessible temporary toilets, locked at the end of each work day that includes wash sinks for contractor use. Toilets are to be serviced and emptied at least twice a week. Do not allow the toilets to overflow at any time. Contractor is responsible in maintaining these toilets.

C. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations. This shall be located within the contractor's staging area at parking lot.

PART 3 EXECUTION

3.1 INSTALLATION, GENERAL

A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.

B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY UTILITY INSTALLATION

A. General: Install temporary service or connect to existing service.

1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.

B. Water Service: Install water service and distribution piping in sizes and pressures adequate for construction.

C. Water Service: Use of Owner's existing water service facilities will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.

1. Where installations below an outlet might be damaged by spillage or leakage, provide a drip pan of suitable size to minimize water damage. Drain accumulated water promptly from pans.

D. Electric Power Service: Use of Owner's existing electric power service will be permitted, as long as equipment is maintained in a condition acceptable to Owner.

E. Electric Power Service: Provide electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations.

1. Connect temporary service to Owner's existing power source, as directed by Owner.

3.3 SUPPORT FACILITIES INSTALLATION

A. Parking: Use designated areas of Owner's existing parking areas for construction personnel.

B. Project Identification and Temporary Signs: Provide Project identification. Install sign to inform public and individuals seeking entrance to Project. Unauthorized signs are not permitted. Indicate name of project, owner, contractor and Owner's Representative. Sign configuration, wording and color are to be approved by City.

C. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Waste shall be removed at least twice per week.

D. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.

1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and

not temporary facilities.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.

B. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to adjacent properties and walkways, according to requirements of authorities having jurisdiction. Maintain throughout all phases of the project.

C. Stormwater Control: Comply with authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.

D. Tree and Plant Protection: Install temporary fencing located as indicated or outside the drip line of trees to protect vegetation from damage from construction operations. Protect tree root systems from damage, flooding, and erosion. See Section 32 34 01 Tree and Landscape Preservation for more information.

E. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gate. Maintain in place throughout the construction period.

1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations and public access for non-construction zones.

2. Contractor shall maintain temporary fencing in good condition. Damaged sections due to vandalism and / or graffiti shall be repaired or replaced within 72- hours of occurrence.

3. Maintain security by limiting number of keys and restricting distribution to authorized personnel. Provide Owner and local fire authority with one set of keys each for each gate.

F. Security Enclosure and Lockup: Install substantial temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Orange plastic security fencing is considered insufficient.

G. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

H. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.

1. Where heating or cooling is needed and permanent enclosure is not complete, insulate temporary enclosures.

I. Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241.

1. Prohibit smoking in anywhere on-site.

2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.

3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.

J. Music – Music is not allowed on site.

K. Foul Language: Foul language is not allowed on site. Violator will be removed from site.

3.5 OPERATION, TERMINATION, AND REMOVAL

A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.

B. Maintenance: Maintain facilities in good operating condition until removal.

1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.

C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.

D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.

1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.

2. At Substantial Completion, clean and renovate permanent facilities used during construction period. Comply with final cleaning requirements specified in Division 1 Section "Closeout Procedures."

END OF SECTION

SECTION 01 70 00
CONTRACT CLOSEOUT

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes: Activities and procedures for closing out the Contract and assisting in Owner's final inspection.

B. Related Documents: The General Conditions and Division 1 are a part of this Section and the Contract for this Work and apply to this Section as if repeated fully herein.

1.2 REQUIREMENTS PREPARATORY TO FINAL INSPECTION

A. Remove temporary facilities from the site to City satisfaction.

B. Thoroughly clean the court surfaces and site to City satisfaction.

C. All electrical equipment shall be fully operational to the satisfaction of the city.

D. Properly mount all operating instructions for equipment and post as specified in their respective sections.

E. Job Record specifications and prints shall be completed, signed, and submitted to the Owner's Representative as specified herein.

F. Submit to the Owner's Representative, the material and equipment maintenance instructions, as specified in the body of the Specifications. Schedule meeting with Owner's representative to train in event training on equipment is necessary.

G. Submit to the Owner's Representative, all guarantees, and warranties as specified in the General Conditions.

H. When requested, submit certificates indicating payment of all debts and Claims arising from the Work.

I. Deliver all tools which a permanent part of equipment are installed in the Work to the Owner.

J. Deliver all keys, construction and permanent, properly identified, to the Owner.

1.3 FINAL INSPECTION

A. After all requirements preparatory to the final inspection have been completed as herein specified, notify the Owner's Representative and Owner's Inspector to perform the final inspection.

1.4 RECORD SPECIFICATIONS AND PRINTS

A. Maintain a set of Record Specifications and Prints as required by Specification Section 017200 Project Record Documents. Record set to be reviewed and approved as requested by City on an as needed basis.

1.5 OPERATION AND MAINTENANCE DATA SUBMITTAL:

A. Submit to the Owner for approval, five copies of complete operation and maintenance data as specified herein and in other sections of these specifications. Submit data a minimum of 30 days before completion of the Contract. The Contract will not be considered complete until this data has been reviewed and approved by the Owner.

B. Assemble all data required herein, except that to be mounted in frames, in three-ring loose-leaf binders, complete with index, index dividers, and permanently attached exterior label on cover.

C. Data Required:

1. Manufacturer's Manuals: Submit complete installation, operation, maintenance and service manuals, and printed instructions and parts lists for all materials and equipment where such printed matter is regularly

available from the manufacturer. This includes but is not limited to such service manuals as may be sold by the manufacturer covering the operation and maintenance of his items, and complete replacement parts lists sufficiently detailed for parts replacement ordering to manufacturer. Bound publications need not be assembled in binders.

2. Equipment Nameplate Data: Submit a typewritten list of all mechanical and electrical equipment showing exact equipment nameplate data. Identify equipment by means of names, symbols, and numbers used in the contract documents.

3. System Operating Instructions: Submit typewritten instructions covering operation of the entire system as installed (not duplicating manufacturer's instructions for operating individual components). Include schematic and control diagrams as appropriate and show or list electrical components using identification symbols and numbers.

4. System Maintenance Instructions: Submit typewritten instructions covering routine maintenance of system. List each item of equipment requiring inspection, or service and briefly describe such maintenance, and frequency of service. It is not intended that these instructions duplicate manufacturer's detailed instructions. Give name, address and phone number of nearest firms authorized or qualified to service equipment or provide parts.

5. Wall Mounted Data: Frame one set of typewritten system instructions and diagrams as specified above, covered with glass and mounted in locations as directed by the Owner. This set of instructions is in addition to the five required herein.

1.6 INSTRUCTION OF OWNER'S MAINTENANCE PERSONNEL:

A. Instructions from manufacturer's representatives required under other sections of this specification shall be conducted during this period. Do not conduct this instruction period before completion of conduit and equipment labeling required.

B. Make arrangements and notices for operation and instruction periods through the Owner.

C. This three-day instruction period shall be in addition and subsequent to any period of operation, test and adjustment called for elsewhere in this specification.

1.7 MANUFACTURERS' WARRANTIES

A. Deliver all manufacturers' warranties required by the Contract Documents, with Owner named as the beneficiary. In addition, for all equipment and machinery, or components thereof, bearing a manufacturers' warranty that extends for a longer time period than the Contractor's warranty, secure and deliver the manufacturers' warranties in the same manner. Warranty periods shall begin with City's filing of Notice of Completion with County.

B. Form of Warranty: Submit written warranties, except manufacturers' standard printed warranties, on the Contractor's, subcontractor's, material suppliers', or manufacturer's own letterhead, addressed to the Owner. Submit all warranties in duplicate, and in the form shown on the following page, modified as approved to suit the conditions pertaining to the warranty.

C. Submission of Warranties: Collect and assemble all written warranties into a bound booklet form and deliver them to the Owner for final review and approval.

D. Warranty Periods: Warranty periods shall begin with the City's filing of Notice of Completion with County.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION

SECTION 02 41 00
DEMOLITION

PART 1 GENERAL

1.1 SUMMARY

A. The General Conditions and Division 1 are a part of this Section and the Contract for this Work and apply to this Section as if repeated fully herein.

1. This Section includes the following:

a. Site element demolition.

b. Salvage of existing items to be reused.

2. Removal of existing utilities.

1.2 RELATED DOCUMENTS

A. Section 01 10 00 - Summary: Limitations on Contractor's use of site and premises.

B. Section 01 50 00 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.

C. Section 01 60 00 - Material and Equipment: Handling and storage of items removed for salvage and relocation.

D. Section 01 70 00 Contract Closeout Requirements: Project conditions; protection of benchmarks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring.

E. Section 02 41 03 Site Demolition.

F. Section 01 73 00 Execution

G. Section 31 10 00 - Site Clearing: Vegetation and existing debris removal.

H. Section 32 34 01 Tree Protection

1.3 REFERENCE STANDARDS

A. 29 CFR 1926 - U.S. Occupational Safety and Health Standards; current edition.

B. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations; 2013.

1.4 DEFINITIONS

A. Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.

B. Remove and Salvage: Detach items from existing construction and deliver them to Owner ready for reuse.

C. Remove and Reinstall: Detach items from existing construction, prepare them for reuse, and reinstall them where indicated.

D. Existing to Remain: Existing items of construction that are not to be removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled. These items shall be protected from damage and repaired or replaced as directed by the owner if damage does occur.

1.5 SUBMITTALS

A. Schedule of Demolition Activities - Indicate the following:

1. Detailed sequence of demolition and removal work,

B. Site Plan: Showing:

1. Vegetation to be protected**.**

2. Areas for temporary construction and field offices, if applicable.

3. Irrigation and turf repair shall be in accordance with Drawings.

C. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

PART 2 PRODUCTS -- NOT USED

PART 3 EXECUTION

3.1 SCOPE

A. Remove existing paving and curbs indicated on drawings, and as required to accomplish new work.

B. Remove other items indicated, for salvage.

3.2 GENERAL PROCEDURES AND PROJECT CONDITIONS

A. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.

1. Obtain required permits and licenses to legally complete all work.

2. Comply with applicable requirements of NFPA 241.

3. Use of explosives is not permitted.

4. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.

5. Provide, erect, and maintain temporary barriers and security devices.

6. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.

7. Conduct operations to minimize effects on and interference with adjacent structures and occupants.

8. Do not close or obstruct roadways, trails, entrances / exits, or sidewalks without permit.

9. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations.

10. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon or limit access to their property.

B. Do not begin removal until receipt of notification to proceed from Owner.

C. Minimize production of dust due to demolition operations; do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.

D. Hazardous Materials: Comply with 29 CFR 1926 and state and local regulations.

E. Perform demolition in a manner that maximizes salvage and recycling of materials.

1. Dismantle existing construction and separate materials.

F. Coordinate demolition for the correct sequence, limits, and methods. Schedule demolition work to create the least possible inconvenience to the public and facility operations.

G. Contractor is required to take photos documentation of existing pavements conditions, lighting, permanent structures, and other site conditions prior to start of work. Photos shall be dated and submitted to the City. Note: If field conditions encountered vary from what is indicated on the Plans, promptly notify the City and Architect for clarification before proceeding.

1. Contractor shall notify the Owner's representative prior to start of Demolition to allow Owner to identify items to be salvaged.
2. Set aside reusable, recyclable, and salvageable materials; store and deliver to collection point or point of reuse.

H. Partial Removal of Paving and Curbs: Neatly saw cut at right angle to surface.

3.3 EXISTING UTILITIES

A. Coordinate work with utility companies; notify before starting work and comply with their requirements; obtain required permits.

B. Protect existing utilities to remain from damage. All known underground utilities are noted on the Plans and are shown in approximate locations. Contractor to pothole and locate all utilities prior to start of demolition.

C. Do not disrupt public utilities without permit from authority having jurisdiction.

D. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Owner.

E. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.

F. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.

G. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.

3.4 PREPARATION

A. Drain, purge, or otherwise remove, collect, and dispose of chemicals, gases, explosives, acids, flammables, or other dangerous materials in conformance with all applicable codes before proceeding with demolition operations.

B. Conduct demolition operations and remove debris to ensure minimum interference with roads, streets, walks, and other adjacent occupied and used facilities.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.

C. Conduct demolition operations to prevent injury to people and damage to adjacent buildings and facilities to remain. Ensure safe passage of people around demolition area.

D. Erect temporary protection, such as walks, fences, railings, canopies, and covered passageways, where required by authorities having jurisdiction.

E. Protect existing site improvements, appurtenances, and landscaping to remain.

1. Erect a plainly visible 6-foot chain link fence around drip line of individual trees or around perimeter drip line of groups of trees to remain.
2. See Section 32 34 01 Tree and Landscape preservation for additional direction and information.

3.5 CUTTING EXISTING CONCRETE AND ASPHALT

A. Cutting of existing concrete shall be done by experienced workers familiar with the requirements and space

necessary for placing concrete. Perform concrete cutting with concrete cutting wheels and hand chisels. Take care not to damage concrete that is intended to remain.

B. Extent of cutting of concrete shall be as indicated on drawings and in accordance with standard plans for public works construction plan no. 132-1. Replace concrete that is removed in excess of amount indicated or required.

C. Prior to cutting or coring concrete, determine locations of hidden utilities and take necessary measures to protect them from damage.

D. If an existing pavement joint or cracked area is within two feet outside of a designated sawcut line shown on the Drawings, removal and resurfacing shall be to that joint, and/or shall include the crack or cracked area, unless otherwise approved by Architect.

E. All concrete shall be power washed and final condition approved by Owner's representative.

3.6 EXPLOSIVES

A. Explosives: Use of explosives will not be permitted.

3.7 POLLUTION CONTROLS

A. Dust shall be kept at a minimum during this work. Use water mist, temporary enclosures, and other suitable methods to limit the spread of dust and dirt. Comply with governing environmental protection regulations.

1. Do not create hazardous or objectionable conditions, such as ice, flooding, and pollution, when using water.

B. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

1. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level.

C. Clean adjacent buildings, sidewalks and/or roadways, and improvements of dust, dirt, and debris caused by demolition operations. Return adjacent areas to existing condition before start of demolition.

3.8 DEBRIS AND WASTE REMOVAL

A. Legally remove debris, junk, and trash from site at the end of each day.

B. Remove from site all materials not to be reused on site; do not burn or bury.

C. Leave site in clean condition, ready for subsequent day's work.

D. Clean up spillage and wind-blown debris from public and private lands.

3.9 PROTECTION:

A. Do not commence demolition until fencing, safety partitions, barricades, warning signs, and other forms of protection are installed.

B. Provide all safeguards, including warning signs, lights, barricades, for the protection of workers, occupants, the public and trees.

C. All existing oak trees shall be protected. Extreme caution shall be exercised while working around / under the trees and canopies.

D. Any damage to site features that are identified to be protected in place shall be repaired or replaced at no additional cost to the Owner / City. Refer to Section 32 43 01 Tree and Landscape Protection for additional requirements.

E. Protect existing improvements during demolition and cleaning operations.

F. Work area(s) shall be kept "broom clean" and washed / cleared daily.

END OF SECTION

SECTION 03 10 00
CONCRETE FORMING AND ACCESSORIES

PART 1 GENERAL

1.1 SUMMARY

A. Provisions of Division 01 apply to this section

B. Section Includes:

1. Formwork for cast-in-place concrete as indicated.

2. Installation of items to be embedded in concrete, such as anchor bolts, inserts, embeds, and sleeves

C. Related Sections:

1. Section 014050: Testing and Inspection.

2. Section 032000: Concrete Reinforcement.

3. Section 033000: Cast-In-Place Concrete.

1.2 SYSTEM DESCRIPTION

A. Regulatory Requirements: Except as otherwise specified herein, Work of this section shall be in accordance with CBC, Chapter 19, Concrete.

1.3 SUBMITTALS

A. Shop Drawings: Submit Shop Drawings indicating locations of forms, joints, embedded items, and accessories.

B. Product Data: Submit manufacturer's Product Data for form materials and accessories.

1.4 QUALITY ASSURANCE

A. Comply with the following as a minimum requirement:

1. Conform to ACI 347, Chapter 1: Design and Chapter 3: Materials for Formwork.

2. Conform to ACI 301, “Specifications for Structural Concrete for Buildings”, as applicable, unless exceeded by code requirements or otherwise indicated or specified.

3. Plywood: Conform to tables for form design and strength in APA Form V 345

B. Mock-ups: Provide mock-ups for architectural exposed finishes; 100 square feet minimum size. Locate as required by the Architect.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials for forms in timely manner to ensure uninterrupted progress.

B. Store materials by methods that prevent damage and permit ready access for inspection and identification.

PART 2 PRODUCTS

2.1 GENERAL

A. Form materials may be reused during progress of the Work provided they are completely cleaned and reconditioned, recoated for each use, capable of producing formwork of required quality, and are structurally sound.

B. Form Lumber: WCLIB Construction Grade or Better, WWPA No. 1 or Better.

C. Plywood: PS 1-95, Group I, Exterior Grade B-B Plyform or better, minimum 5-ply and 3/4-inch-thick for exposed locations and at least 5/8-inch-thick for unexposed locations, grade marked, not mill oiled. Furnished plywood with medium or high-density overlay is permitted.

D. Coated Form Plywood: For exposed painted concrete, plastic overlaid plywood of grade specified above, factory coated with a form coating and release agent Noxcrete", or equal.

E. Tube Forms: Burke "SmoothTube," Sonoco "Seamless Sonotubes," or Alton Building Products "Sleek Seamless Standard Wall," of the type leaving no marks in concrete, one-piece lengths for required heights.

F. Joist Forms: Code recognized steel or molded plastic types as required.

G. Special Forms: For exposed integrally-colored concrete, plywood as above with high density overlay, plywood with integral structural hardboard facing or fibrous glass reinforced plastic facing, providing specified finish.

H. For Exposed Concrete Finish:

1. Plywood: New, waterproof, synthetic resin bonded, exterior type Douglas fir or Southern pine plywood manufactured especially for concrete formwork and conforming to NIST PS 1, BB grade, class I.

2. Glass-Fiber-Fabric Reinforced Plastic Forms: Matched, tight fitting, stiffened to support weight of concrete without deflection detrimental to structural tolerances and appearance of finished concrete surfaces.

3. Steel: Minimum 16 gage sheet, well matched, tight fitting, stiffened to support weight of concrete, without deflection detrimental to tolerances and appearances of finished concrete surfaces.

4. Wood Board Form Finish: Use new rough sawn cedar boards (6″ wide) as liner to establish "board form finish".

I. Form Ties: Concealed condition: Prefabricated rod, flat band, wire, internally threaded disconnecting type, not leaving metal within 1-1/2 inch of concrete surface, free of defects that could leave holes larger than one inch in concrete surface. Exposed condition: Snap-off type, fixed length, cone type, 1-inch back break dimension, free of defects that could leave holes larger than one inch in concrete surface; provide flush plugs for cone holes or grout fill as specified.

J. Form Coating: Non-staining clear coating free from oil, silicone, wax, not grain-raising, "Formshield" by A.C. Horn, Inc., "Release" by Burke Concrete Accessories, or "Cast-Off" by Sonneborn Building Products. Where form liners are furnished, provide form coatings recommended by form liner manufacturer.

K. Form Liner: Rigid or resilient type by L.M. Scofield, Labrado Forms, Symons, or Greenstreak.

L. Void Forms: Manufactured by SureVoid Products, Inc, or equal. Forms shall be "WallVoid" for temporary support of concrete walls and grade beams spanning between supports, and "SlabVoid" for creating gaps between concrete slabs or steps and underlying soils. Void forms shall be fabricated of corrugated paper with moisture resistant exterior, and shall be capable of withstanding working load of 1,500 psf. Provide accessories as required.

PART 3 EXECUTION

3.1 GENERAL

A. Forms shall be constructed so as to shape final concrete structure conforming to shape, lines and dimensions of members required by Drawings and Specifications and shall be sufficiently tight to prevent leakage of mortar. They shall be properly braced or tied together to maintain position and shape. Forms and their supports shall be designed so that previously placed structures will not be damaged. Forms shall be true to line within a tolerance of plus-or-minus 1/250 of the span.

3.2 ERECTION

A. Plywood shall be installed with horizontal joints level, vertical joints plumb and with joints tight. Back joints by studs or solid blocking, and fill where necessary for smoothness. Reused plywood shall be thoroughly cleaned,

damaged edges or surfaces repaired, and both sides and edges oiled with colorless form oil. Nail plywood along edges, and to intermediate supports, with common wire nails spaced as necessary to maintain alignment and prevent warping.

B. Openings for Cleaning: Provide temporary openings at points in formwork to facilitate cleaning and inspection. At base of walls and wide piers, bottom form board on one face for entire length shall be omitted until form has been cleaned and inspected.

3.3 REMOVAL OF FORMS

A. Forms shall not be removed until concrete has sufficiently hydrated to maintain its integrity and not be damaged by form removal operations. Unless noted otherwise and/or permitted by the Architect, columns and wall forms shall not be removed in less than 5 days, floor slabs in less than 7 days, beams and girders in less than 15 days, metal pan forms for joists may be removed after 3 days, but joist centering shall not be removed until after 15 days, and ramp, landing, steps and floor slabs shall not be removed in less than 7 days. Shoring shall not be removed until member has acquired sufficient strength to support its weight, load upon it, and added load of construction.

B. Compressive strength of in-place concrete shall be determined by testing field-cured specimens′ representative of concrete location or members, as specified in Section 033000: Cast-In-Place Concrete.

3.4 PROTECTION

A. Protect the Work of this section until Substantial Completion.

3.5 CLEAN UP

A. Remove rubbish, debris and waste materials and legally dispose of off the Project site.

END OF SECTION

SECTION 03 20 00
CONCRETE REINFORCING

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:

1. Concrete steel reinforcement.

2. Accessories, including but not limited to, chairs and tie wires.

B. Related Sections:

1. Section 014050: Testing and Inspection.

2. Section 033000: Cast-In-Place Concrete.

3. Section 042200: Concrete Masonry Units

4. Section 321313: Portland Cement Concrete

1.2 SYSTEM DESCRIPTION

A. Regulatory Requirements: Fabrication and placement of reinforcing shall be in accordance with requirements of CBC, Chapter 19.

1.3 SUBMITTALS

A. Shop Drawings: Submit steel reinforcement Shop Drawings in accordance with ACI 315. Include assembly diagrams, bending charts and slab plans. Indicate lengths and location of splices, size and lengths of reinforcing steel.

B. Closeout Submittals: Record exact locations of reinforcing that vary from Shop Drawings.

1.4 QUALITY ASSURANCE

A. Comply with the following as a minimum requirement:

1. Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice.

2. American Welding Society (AWS).

3. American Concrete Institute (ACI).

4. CBC, Chapter 19, Concrete.

B. Source Quality Control: Refer to Division 01 Sections for general requirements and to following paragraphs for specific procedures. Testing laboratory retained by the Owner shall perform following conformance testing, select test Samples of bars, ties, and stirrups from the material at the Project site or from the place of distribution, with each Sample consisting of not less than two 18-inch-long pieces, and perform the following tests according to ASTM A 615.

1. Identified Bars: If Samples are obtained from bundles as delivered from the mill, identified as to heat number, accompanied by mill analyses and mill test reports, and properly tagged with the identification certificate so as to be readily identified, perform one tensile and one bend test for each 10 tons or fraction thereof of each size of bars. Submit mill reports when Samples are selected.

2. Unidentified Bars: When positive identification of reinforcing bars cannot be performed and when random Samples are obtained; perform tests for each 2.5 tons or fraction thereof, one tensile and one bend test from each size of bars.

C. Certification of welders: Shop and Project site welding shall be performed by certified welding operators.

1.5 DELIVERY, STORAGE, HANDLING AND MARKING

A. Avoid exposure to dirt, moisture or conditions harmful to reinforcing.

B. Reinforcing steel bars, wire, and wire fabric shall be stored on the Project site to permit easy access for examination and identification of each shipment. Material of each shipment shall be separated for size and shape

C. Bundle bars, tag with identification and transport and store so as not to damage any material. Use metal tags indicating size, length and other marking shown on placement drawings. Maintain tags after bundles are broken.

PART 2 PRODUCTS

2.1 GENERAL

A. Provide reinforcing of sizes, gages and lengths indicated, bent to indicated shapes.

2.2 MATERIALS

A. Steel Reinforcing Bars: ASTM A 615, or ASTM A 706 deformed grade 60 billet steel unless otherwise specified or indicated.

B. Steel Reinforcing Bars for welding: ASTM A 706 deformed grade 60.

C. Bars or Rod Mats: ASTM A 184.

D. Tie Wire: ASTM A 82, fully annealed, copper-bearing steel wire, 16 gages minimum.

E. Chairs, Spacers, Supports, and Other Accessories: Standard manufacture conforming to ACI-315 fabricated from steel wire of required types and sizes. For reinforcement supported from grade, provide properly sized dense precast blocks of concrete.

F. Welding electrodes: AWS D1.4, Table 5.1 and 5.5 low hydrogen electrodes, E9018 for Grade 60 steel.

2.3 FABRICATION OF REINFORCING BARS:

A. Comply with CRSI Manual of Standard Practice for Reinforced Concrete Construction for fabrication of reinforcing steel.

B. Bending and Forming: Fabricate bars of the indicated sizes and bend and form to required shapes and lengths by methods not injurious to materials. Do not heat reinforcement for bending. Bend bars No. 6 size and larger in the shop only. Bars with unscheduled kinks or bends are not permitted. Provide only tested and permitted bar materials.

C. Welding: Provide only ASTM A 706 steel where welding is indicated. Perform welding by the direct electric arc process in accordance with AWS D1.4 and specified low-hydrogen electrodes. Preheat 6 inches each side of joint. Protect joints from drafts during the cooling process; accelerated cooling is not permitted. Do not tack weld bars. Clean metal surfaces to be welded of loose scale and foreign material. Clean welds each time electrode is changed and chip burned edges before placing welds. When wire brushed, the completed welds must exhibit uniform section, smooth welded metal, feather edges without undercuts or overlays, freedom from porosity and clinkers, and good fusion and penetration into the base metal. Cut out welds or parts of welds deemed defective, using chisel, and replace with proper welding. Prequalification of welds shall be in accordance with CBC requirements.

PART 3 EXECUTION

3.1 INSTALLATION

A. Bars shall be bent cold. Bars partially embedded in concrete shall not be field bent except as indicated on reviewed Shop Drawings. Before installation, clean reinforcing of loose scale, rust, oil, dirt and any coating that

could reduce bond.

B. Accurately position, install, and secure reinforcing and wire tie to prevent displacement during the placement of concrete. Bend ends of wire ties away from the forms. Wire tie bars to corners of ties and stirrups.

C. Provide metal chairs to hold reinforcement the required distance above form bottoms. In beams and slab construction, provide chairs under top slab reinforcement as well as under bottom reinforcement. Space chairs so that reinforcement will not be displaced during installation. Provide metal spacers to secure proper spacing. Stirrups shall be accurately and securely wired to bars at both top and bottom. At slabs, footings, and beams in contact with earth, provide concrete blocks to support reinforcement at required distance above grade. Use care not to damage vapor barriers where they occur.

D. Install and secure reinforcement to maintain required clearance between parallel bars and between bars and forms. Lapped splices shall be installed wherever possible in a manner to provide required clearance between sets of bars. Do not splice reinforcing bars at points of maximum stress except where indicated. Lap splices as shown or required to develop the full strength or stress of bars. Stagger lapped splices. Dowels and bars extending through construction joints shall be secured in position against displacement before concrete is installed and subsequently cleaned of concrete encrustations while they are still soft.

E. Clearances: Maintain minimum clear distances between reinforcing bars and face of concrete as indicated or directed.

F. Reinforcing Mesh: Lap one full mesh plus 2 inches, or 6 inches whichever is greater, at splices, wire tie, and support the same as specified for bars.

G. Use deformed bars unless otherwise indicated.

3.2 CLEAN UP

A. Remove rubbish, debris and waste materials and legally dispose of off the Project site.

3.3 PROTECTION

A. Protect the Work of this section until Substantial Completion.

3.4 FIELD QUALITY CONTROL:

A. Inspection: Obtain inspection and approval of reinforcing before concrete is placed.

END OF SECTION

SECTION 03 30 00

CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

B. Cast-in-place concrete placement and finishing.

1. Grout and Drypack, except as otherwise specified.
2. Placing of embedded anchor bolts and inserts.
3. Vapor barrier under interior floor slabs on grade.
4. Lumber Formwork.

C. Related Sections:

1. Section 014050: Testing and Inspection
2. Section 031000: Concrete Forming and Accessories.
3. Section 032000: Concrete Reinforcement
4. Section 061000: Rough Carpentry
5. Section 311313: Portland Cement Paving

1.2 SUBMITTALS

A. Shop Drawings: Submit Shop Drawings indicating locations of cast-in-place concrete and dimensioned locations of construction, control, and expansion joints. Show pour sequencing. Show details for constructing construction and expansion joints. Submit Shop Drawings showing work and accessory items such as vapor barriers. Include details and locations of reinforcing, embedded items, and interfacing with other Work.

B. Product Data:

1. Mix Design: Submit a concrete mix design for each mix that will be provided for the Work. Include water/ cement ratio, size of coarse aggregate and amount of any admixture. Predict minimum compressive strength, maximum slump and air content percentage. Mix designs shall be stamped and signed by a Civil or Structural Engineer registered in the State of California.
2. Manufacturer of ready-mixed concrete shall deliver to the City Inspector a certificate with each mixer truck. Certificate shall bear the signature of representative of the testing laboratory, and shall state quantity of cement, water, fine and coarse aggregate and admixtures.

C. Material Samples: Submit Samples illustrating concrete finish(s), color(s), minimum 12 inches by 12 inches in size.

D. Certificates: Submit a notarized certificate that each of following conforms to standards indicated:

1. Aggregates – ASTM Standards C33
2. Admixtures - ASTM Standards C260
3. Curing materials - ASTM Standards C171

1.3 QUALITY ASSURANCE

A. Comply with the following as a minimum requirement.

B. American Concrete Institute (ACI) Publication:

1. ACI 211 - Recommended Practice for Selecting Proportions of Concrete.
2. ACI 304 - Recommended Practice for Measuring, Mixing, Transporting and Placing Concrete.
3. ACI 305 - Recommended Practice for Hot Weather Concreting.
4. ACI 306 - Recommended Practice for Cold Weather Concreting.
5. ACI 308 - Recommended Practice for Curing Concrete.
6. ACI 309 - Recommended Practice for Consolidation of Concrete.

C. American Society for Testing and Materials (ASTM) Standards:

1. ASTM A 185 - Welded Steel Wire Fabric For Concrete Reinforcement.
2. ASTM C 31 - Making and Curing Concrete Test Specimens in the Field.
3. ASTM C 33 - Concrete Aggregates.
4. ASTM C 39 - Compressive Strength of Cylindrical Concrete Specimens.
5. ASTM C 88 - Soundness of Aggregates by use of Sulphate or Magnesium Sulphate.
6. ASTM C 94 - Ready-Mixed Concrete.
7. ASTM C 143 - Slump of Hydraulic Cement Concrete.
8. ASTM C 150 - Portland Cement.
9. ASTM C 171 - Sheet Materials for Curing Concrete.
10. ASTM C 172 - Sampling Freshly Mixed Concrete.
11. ASTM C 173 - Air Content of Freshly Mixed Concrete by the Volumetric Method.
12. ASTM C 227 - Potential Alkali Reactivity of Cement-Aggregate Combinations (Mortar-Bar Method).
13. ASTM C 231 - Air Content of Freshly Mixed Concrete by the Pressure Method.
14. ASTM C 260 - Air-Entraining Admixtures for Concrete.
15. ASTM C 289 - Potential Reactivity of Aggregates (Chemical Method).
16. ASTM D 1751 - Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Non-extruding and Resilient Bituminous Types).

D. Continuous inspection shall be provided at the batch plant and for transit-mixed concrete to run check sieve analysis of aggregate, check moisture content of fine aggregate, check design of mix, check cement being used with test reports, check loading of mixer trucks, and certify to quantities of materials placed in each mixer truck.

E. Continuous batch plant inspection requirement may be waived in accordance with CBC section 1929.5. Waiver shall be in writing, including Agency approval.

F. Strength Test of Concrete: Refer to Section 014200: Testing and Inspection.

1.4 DELIVERY, STORAGE AND HANDLING

A. Mixing and Placing Concrete: Refer to Section 014200: Testing and Inspection.

B. Ready-mix concrete shall be mixed and delivered in accordance with ASTM C 94 and CBC Standard 19-3 and 19-4. Each batch of concrete delivered to the Project site shall be accompanied by a time slip bearing departure time and signature of batch plant supervisor. Concrete shall be placed within 90 minutes after start of mixing.

C. Store cement and aggregate materials so as to prevent their deterioration or intrusion by foreign

matter. Deteriorated or contaminated materials shall not be furnished.

1.5 JOB CONDITIONS

A. Cold Weather Requirements:

1. Adequate equipment shall be provided for heating concrete materials and protecting concrete during freezing or near-freezing weather. Surfaces, in which concrete is to come in contact with, shall be free from frost or ice. No frozen materials or materials containing ice shall be furnished.

2. When placing concrete during freezing or near-freezing weather the mix shall have a temperature of at least 50 degrees F., but not more than 90 degrees F. when cement is added. Concrete shall be maintained at a temperature of at least 50 degrees F. for at least 72 hours after placing or until it has thoroughly hydrated. When necessary, concrete materials shall be heated before mixing. Special precautions shall be provided for protection of transit-mixed concrete.

B. Hot Weather Requirements:

1. During hot weather, proper attention shall be provided for ingredients, production methods, handling, placing, protection and curing, to prevent excessive concrete temperatures or water evaporation which could impair required strength or durability.

PART 2 - PRODUCTS

2.1 GENERAL

A. Ready-Mixed Concrete: Mix and deliver in accordance with requirements of CBC Chapter 1905.

B. Strength of Concrete: Concrete, unless otherwise indicated or specified, shall be provided with a minimum ultimate 28-day strength of 3000 psi (f'c).

C. Shrinkage after 28 days of drying shall not exceed that specified in Concrete Section of the General Notes.Shrinkage Test:

2.2 MATERIALS

A. Cement: ASTM C 150. Furnished cement shall be as selected and reviewed for concrete proportioning.

B. Aggregates: Aggregates shall conform to ASTM C 33 and C 227 except as modified herein. Any suitable individual grading of coarse aggregate may be furnished, provided Grading of Combined Aggregate indicated in following table is obtained.

GRADING OF COMBINED AGGREGATE

Sieve Number or Size in Inches	1-1/2" Maximum	1" Maximum	
Passing a 2"		------	------
Passing a 1-1/2"	95-100	------	
Passing a 1"		70-90	90-100
Passing a 3/4"	50-80	70-95	
Passing a 3/8"	40-60	45-70	
Passing a No. 4	35-55	35-55	
Passing a No. 8	25-40	27-45	
Passing a No. 16	16-34	20-38	

Passing a No. 30	12-25	12-27
Passing a No. 50	2-12	5-15
Passing a No. 100	0-3	0-5

C. Water: Water shall be potable and free from deleterious matter.

D. Admixtures: CBC Chapter 19, Section 1903.6, Type A or D. Fly Ash is not allowed.

E. Fiber Joint Fillers: Preformed strips, non-extruding and resilient bituminous type, of thickness indicated, conforming to ASTM D 1751.

F. Curing Paper and Liquid Curing Compounds:

1. Curing Paper: A standard brand conforming to ASTM C 171, Type 1 - Regular, Kure-N-Seal.

2. Liquid Curing Compounds: A standard brand, clear liquid conforming to ASTM C 309, Master Builders, Grace, Antihydro.

G. Formwork: Clean, straight timbers without knots per 061000 Rough Carpentry, or otherwise specified within details.

H. Non-shrink grout:

1. Pre-package, non-metallic, non-gaseous when tested in accordance with ASTM C117, Grade C at fluid (flow cone) consistency of 20- to 30 seconds. Grout shall attain 7,500 psi compressive strength in 28-days at specified flow and shall not bleed. Master Builders “Masterflow 928”, Euclid Chemical Co. “Euco Hi-Flow Grout”, L&M Construction Chemicals “Crystex”.

I. Drypack: Field mixture of 1-part Portland cement to 2 parts fine aggregate mixed to a damp consistency such that a ball molded in the hands will stick together and hold its shape. At Contractor's option, the specified admixture may be added for increased workability at lower water/cement ratio. In lieu of field mixing, Contractor may use factory mixed drypack material, such as Master Builders "SetGrout" or Euclid "Euco Dry Pack Grout".

2.3 CONCRETE MIXING

A. Furnish ready-mixed concrete from an approved concrete batch plant. Conform to ASTM C94, except materials, testing, and mix designs as specified herein. Use transit mixer trucks equipped with automatic devices for recording number of revolutions of drum.

B. Admixtures: Admixtures shall be introduced into the concrete at the batch plant. Field additions are not acceptable.

C. Slump: Adjust quantity of water so concrete at point and time of placing does not exceed the following slumps when tested according to ASTM C143. Use the minimum water necessary for workability required by part of structure being cast.

SLUMP AND WATER/CEMENT RATIOS

Part of Structure	Maximum Slump Inches*	Maximum Water Cement Ratio
Footings, foundation walls, and mass concrete	4	0.5
Slabs on grade, reinforced and non-reinforced	4	0.45
Reinforced concrete 8" or less thick	4	0.5
All other concrete	4	0.5

PART 3 - EXECUTION

3.1 GENERAL

A. Time of Placing: Do not place concrete until reinforcement, conduits, outlet boxes, anchors, hangers, sleeves, bolts, and other embedded materials are securely fastened in place. Contact the Inspector at least 24 hours before placing concrete; do not place concrete until inspected.

B. Pouring Record: A record shall be kept on the Project site of time and date of placing concrete in each portion of structure. Such record shall be maintained on the Project site until Substantial Completion and shall be available for examination by the Architect and Governing County.

3.2 PREPARATION

A. Moisture Barrier: Before installation of screeds and slab reinforcement, install a moisture barrier under slabs on grade. Place membrane in as large sheets as possible, lapped 12 inches at sides and ends, with top lap placed in the direction of the spreading of concrete. Extend membrane and lap at least 4 inches onto adjoining wall surfaces and seal with pressure-sensitive tape.

1. Install moisture barrier on minimum 2-inch bed of sand.

2. Patch punctures and tears in moisture barrier.

B. Screeds: Install screeds accurately and maintain at required grade or slab elevations after steel reinforcement has been installed, but before starting to place concrete. Install screeds adjacent to walls and in parallel rows not to exceed 8 feet on centers.

3.3 INSTALLATION

A. Conveying and Placing:

1. Concrete shall be placed only under direct observation of the Inspector. Do not place concrete outside of regular working hours.

2. Concrete shall be conveyed from mixer to location of final placement by methods, which will prevent separation or loss of materials.

3. Concrete shall be placed as nearly as practicable to its final position to avoid segregation due to re-handling or flowing. No concrete that has partially hydrated or has been contaminated by foreign materials shall be placed, nor shall re-tempered concrete or concrete which has been remixed after initial set be placed.

4. In placing concrete in columns, walls or thin sections, provide openings in forms, elephant trunks, tremies or other recognized devices, to prevent segregation and accumulation of partially hydrated concrete on forms or metal reinforcement above level of concrete being placed. Such devices shall be installed so that concrete will be dropped vertically. Unconfined vertical drop of concrete from end of such devices to final placement surface shall not exceed 6 feet.

5. Concrete shall be placed as a continuous operation until placing of panel or section is completed. Top surfaces of vertically formed lifts shall be level.

6. Concrete shall be thoroughly consolidated during placement and shall be worked around reinforcement and embedded fixtures with mechanical vibrators.

7. Where conditions make consolidation difficult, or where reinforcement is congested, batches of mortar containing same proportions of cement, sand, and water as provided in the concrete, shall first be deposited in the forms to a depth of at least one inch.

B. Compaction and Screeding:

1. Tamp freshly placed concrete with a heavy tamper until at least 3/8 inch of mortar is brought to surface. Concrete shall then be tamped with a light tamper and screeded with a heavy straightedge until depressions and irregularities are eliminated, and surface is true to finish grades or elevations. Remove excess water and debris.

2. Where slabs are to receive separate cement finish or mortar setting bed, continued tamping to raise mortar to surface is not performed. Laitance shall be removed by brushing with a stiff brush or by light

sandblasting to expose clean top surface of coarse aggregate

C. Floating and Troweling:

1. When concrete has hydrated sufficiently, it shall be floated to a compact and smooth surface. After floating, wait until concrete has reached proper consistency before troweling. Top surfaces shall receive at least 2 troweling operations with steel hand trowel. Prior to and during final troweling, apply a fine mist of water frequently with an atomizing type fog sprayer.

2. For interior finish slabs, final troweling shall provide a hard, impervious, and non-slip surfaces, free from defects and blemishes. Finished surface shall be within a tolerance of 1/8 inch in 10 feet. Avoid burnishing. Do not add cement or sand to absorb excess moisture.

3. Vertical concrete surfaces shall be finished smooth and free from marks or other surface defects.

D. Curing:

1. Concrete shall be maintained above 50 degrees F., and in a moist condition for 7 days after placing, except that high early strength concrete shall be maintained in a moist condition for 3 days.

2. If weather is hot or surface has dried out, spray surface of concrete slabs and paving with fine mist of water, starting not later than 2 hours after final troweling and continuing until sunset. Surface of finish shall be kept continuously wet until curing medium has been installed.

3. Immediately after finishing, monolithic floor slabs shall be covered with curing paper. Paper shall be lapped 3 inches at joints and sealed with waterproof sealer. Edges shall be cemented to finish. Repair or replace paper damaged during construction operations.

4. Within 24 hours after finishing, exterior slabs and paving, and interior slabs to receive cement topping or mortar setting beds, shall be covered with sand to a depth of 2 inches and kept thoroughly wet for 7 days.

a. Instead of sand covering, exterior walks and paving where no other surface treatment is specified may be cured with clear liquid curing compound immediately installed in accordance with manufacturer's directions.

E. Filling, Leveling and Patching:

1. Holes resulting from form ties or sleeve nuts shall be solidly packed, through exterior walls, by pressure grouting with cement grout, as specified. Grouted holes on exposed surfaces shall be screeded flush and finished to match adjoining surfaces.

F. Cement Base: Cement base shall be of the height, thickness, and shape detailed. Base shall be reinforced with one inch mesh, 18 gage, zinc-coated wire fabric. Base finish mixture shall be one-part Portland cement, 2 parts of fine

aggregate and one-part pea gravel. Colored cement base shall include a chemically inert mineral oxide pigment in the mix.

3.4 FINISHING

A. Broom _ Horizonal surfaces shall be broom finished to match existing adjacent surfaces. Provide 4′x4′ mock up for approval prior to start of work.

3.5 EXPANSION AND CONSTRUCTION JOINTS

A. Construction Joints: Details and proposed location of construction joints shall be as indicated on the Drawings, located to least impair strength of structure, in accordance with the following:

1. Thoroughly clean contact surface by sand blasting entire surface not earlier than 5 days after initial placement.

2. A mix containing same proportion of sand and cement provided in concrete plus a maximum of 50 percent of coarse aggregate shall be placed to a depth of at least one inch on horizontal joints. Vertical

joints shall be wetted and coated with a neat cement grout immediately before placing of new concrete.

3. Shall contact surface become coated with earth, sawdust, or deleterious material of any kind after being cleaned, entire surface shall be re-cleaned before applying mix.

B. Expansion Joints: Provide expansion joints in walks and exterior slabs. Space approximately 20 feet apart, unless otherwise indicated. Joints shall extend entirely through slab with joint filler in one piece for width of walk or slab.

C. Tooled Joints: Slabs, walks and paving shall be marked into areas as indicated with markings made by saw cutting. Marks shall be round-edged, free from burrs or obstructions, with clean cut angles and shall be straight and true. Walks, if not indicated, shall be marked off into rectangles of not more than 5 square feet and shall have a center marking where more than 5 feet wide.

3.6 TESTING

A. Molded Cylinder Tests:

1. Owner Consultant will prepare cylinders. Each cylinder shall be dated, given a number, point in structure from which sample was obtained, mix design number, mix design strength and result of accompanying slump test noted.

2. Separate tests of molded concrete cylinders obtained at same place and time shall be made at age of 3 days, 7 days, and 28 days. A strength test shall be the average of the compressive strength of 2 cylinders, obtained from the same sample of concrete and tested at 28 days or at test age designated for determination of f'c.

3. Test cylinders shall be prepared at the Project site and stored in testing laboratory in accordance with ASTM C 31 and tested in accordance with ASTM C 39.

B. Core Test: At request of the Architect, cores of hardened concrete shall be cut from portions of hydrated structures for testing, in accordance with CBC and ASTM C 42.

1. Provide 4 inch diameter cores at representative places throughout the structure as designated by the Architect.

2. In general, provide sufficient cores to represent concrete placed with at least one core for each 4,000 square feet of building area, and at least 3 cores total for each Project.

3. Where cores have been removed, fill voids with drypack, and patch the finish to match the adjacent existing surfaces.

C. Concrete Consistency: Measure consistency according to ASTM C 143. Test twice each day or partial day's run of the mixer.

D. Adjustment of Mix: If the strength of any grade of concrete for any portion of Work, as indicated by molded test cylinders, falls below minimum 28 days compressive strength specified or indicated, adjust mix design for remaining portion of construction so that resulting concrete meets minimum strength requirements.

E. Defective Concrete

1. Shall strength of any grade of concrete, for any portion of Work indicated by tests of molded cylinders and core tests, fall below minimum 28 days strength specified or indicated, concrete will be deemed defective Work and shall be replaced.

2. Concrete Work that is not formed as indicated, is not true within 1/250 of span, not true to intended alignment, not plumb or level where so intended, not true to intended grades and levels, contains sawdust shavings, wood or embedded debris, or does not fully conform to Contract provisions, shall be deemed to be defective Work and shall be removed and replaced.

3.7 CLEAN UP

A. Remove rubbish, debris and waste materials and legally dispose of off the Project site.

3.8 PROTECTION

A. Protect the Work of this section until Substantial Completion.

END OF SECTION

SECTION 12 93 00

SITE FURNISHINGS

I GENERAL

a) Scope of Work:
1. Furnish and install Basketball Post /Hoop / Backboard

II PRODUCTS

a) Basketball Post / Hoop / Backboard
Mfr: Jaypro
Model No.: #SPA4-AC-UG / 4 ½" Pole. Acrylic Board / Ultimate Goal / Powder Coat Option for Basketball Gooseneck / Jaypro #JNY-6HP / Anti-Whip Net
Supplier: Dave Bang Associates / 1.800.669.2585

III INSTALLATION

a) General:
Installation shall be in the locations shown on the drawings after approval of precise location by City. Install according to manufacturer's written instructions or according to approved shop drawings. Install all metal supports and post in footings prior to installing any concrete slabs.

Final locations of all equipment to be coordinated with all existing and new improvements, marked and approved in the field for approval by City representative.

Any site furnishings not imbedded shall be surface mounted to a 4" concrete slab min. 2' sq. or by width and length of item using minimum 3/8" x 3" long lag screws in expansion shields.

Concrete footings: All site furnishings which are embedded in the ground shall have a 12" x 18" minimum concrete footing. If the manuf. has a specified method of installation, it shall take precedence over the above footing.

END OF SECTION 12 93 00

SECTION 26 00 10
BASIC ELECTRICAL REQUIREMENTS

PART 1 - GENERAL

1.01 SCOPE

A. This section supplements all sections of this division and shall apply to all phases of work hereinafter specified, shown on the drawings, or required to provide a complete installation of electrical systems for the Project. The work required under this division is not limited to the electrical specifications and drawings. Refer to all bid documents including Civil, Architectural, Structural, and Mechanical documents which may designate Work to be accomplished. The intent of the Specifications is to provide a complete and operable electrical system, which shall include all documents that are a part of the entire Project Contract.

1. Work included: Furnish all labor, material, tools, equipment, facilities, transportation, skilled supervision necessary for, and incidental to, performing operations in connection with furnishing, delivery, and installation of the work in this division complete as shown or noted on the Drawings and specified herein.

B. Related Work Specified Elsewhere:

1. Refer to all sections in the general contract conditions, Contract Requirements and Division 1, General Requirements.

C. Work Installed but Furnished by Others:

1. The electrical work includes the installation or connection of certain materials and equipment furnished by others. Verify installation details. Foundations for apparatus and equipment will be furnished by others unless otherwise noted or detailed.

1.02 GENERAL REQUIREMENTS

A. Guarantee See General Conditions:

1. Except as may be specified under other Sections in the drawing specification, guarantee equipment furnished under the specifications for a period of one year, except for equipment required to have a longer guarantee period, from date of final completion. Guarantee all work against defective workmanship, material, and improper installation. Upon notification of failure, correct deficiency immediately and without additional cost to the Owner.
2. Standard warranty of manufacturer shall apply for replacement of parts after expiration of the above period. Manufacturer shall furnish replacement parts to the Owner or his service agency as approved. Furnish to the Owner, through the Architect, printed manufacturer's warranties complete with material included and expiration dates, upon completion of project. Conform to Division 01.

B. Equipment Safety: All electrical materials and equipment shall be new and shall be listed by Underwriter's Laboratories and bear their label, or listed and certified by a nationally recognized testing authority where UL does not have an approval. Custom made equipment must have complete test data submitted by the manufacturer attesting to its safety.

C. Codes and Regulations:

1. Design, manufacturer, testing and method of installation of all apparatus and materials furnished under the requirements of these specifications shall conform to the latest publications or standard rules of the following:
   a. Institute of Electrical and Electronic Engineers - IEEE
   b. National Electrical Manufacturers' Association - NEMA
   c. Underwriters' Laboratories, Inc. - UL
   d. National Fire Protection Association - NFPA
   e. American Society for Testing and Materials - ASTM
   f. American National Standards Institute - ANSI
   g. California Electrical Code - CEC, Title 24, Part 3
   h. California Code of Regulations, Title 8, Subchapter 5
   i. California Building Code-CBC, Title 24 Parts 1 &2

j. State & Municipal Codes in Force in the Specific Project Area

k. Occupational Safety & Health Administration - OSHA
l. California State Fire Marshal
m. California Fire Code- CFC, Title 24 Part 9
n. National Electrical Testing Association - NETA

2. The term "Code", when used within the specifications, shall refer to the Publications, Standards, ordinances and codes, listed above. In the case where the codes have different levels of requirements the most stringent rules shall apply.

D. Requirements of Regulatory Agencies:

1. Codes, Permits, and Fees: Where the Contract Documents exceed minimum requirements, the Contract Documents take precedence. Where code conflicts occur, the most stringent shall apply. The most stringent condition shall be as interpreted by the Engineer.
   a. Comply with all requirements for permits, licenses, fees and Code. Permits, licenses, fees, inspections and arrangements required for the Contractor at his expense shall obtain the Work, unless otherwise specified.
   b. Comply with the requirements of the applicable utility companies serving the Project. Make all arrangements with the utility companies for proper coordination of the Work.

E. Shop Drawings:

1. See Division 01 for additional requirements.
2. Time Schedules for Submission and Ordering: The Contractor shall prepare, review and coordinate his schedule of submissions carefully, determining the necessary lead time for preparing, submitting, checking, ordering and delivery of materials and equipment for timely arrival. The Contractor shall be responsible for conformance with the overall construction schedule.
3. Submittals will be checked for general compliance with specifications only. The Contractor shall be responsible for deviations from the drawings or specifications and for errors or omissions of any sort in submittals.
4. Submit a complete list of materials and equipment proposed for the job, including manufacturers names and catalog numbers.
5. Shop drawings shall be submitted in completed groups of materials (i.e., lighting fixtures or switchgear). The Contractor shall add and sign the following paragraph on equipment and materials submitted for review. "It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into the project; is in compliance with the Contract Drawings and specifications and can be installed in the allocated spaces". Failure to add the above written statement for compliance will result in return of submittals without review.
   a. Bind catalog cuts, plate numbers, descriptive bulletins, and drawings, 11" x 17" (275 mm x 435 mm) or smaller, in sets with covers neatly showing titles.
   b. The Contractor shall verify dimensions of equipment and be satisfied as to Code compliance for fit prior to submitting shop drawings for approval.
   c. Where current limiting devices are specified, submit technical data to substantiate adequate protection of equipment cascaded downstream. Submittals shall not be reviewed unless supporting calculations and data are submitted therewith.
   d. Include complete catalog information such as construction, ratings, insulation systems, as applicable.
   e. For any material specified to meet UL or trade standards, furnish the manufacturers or vendor's certification that the material furnished for the work does in fact equal or exceed such specifications.
   f. Reference listings to the specifications' Sections and Article to which each is applicable.
   g. Equipment Floor Plans: After approval of material is secured prepare a floor plan of each electrical and communication equipment space, room or yard, drawn to scale at 1/2 inch equals 1 foot and submit for approval in the same manner as for shop drawings. The layout drawings shall be exact scale.

6. Contractor shall prepare coordinated drawings when required by Division 01 or where noted otherwise.

F. Interpretations: The Contractor through the Architect must make Requests for interpretations of drawings and specifications. Any such requests made by equipment manufacturers or suppliers will be referred to the Contractor.

G. Standard of Quality
1. The contract Drawings and Specifications establish the “MINIMUM STANDARD OF QUALITY” each product and/or system must meet to be considered acceptable. Products of other manufactures will be considered if the product and/or system meet or exceed the “MINIMUM STANDARD OF QUALITY” established by this Contract Document.
2. Items for similar application shall be of the same manufacturer.
3. The label of listing by UL shall appear on all materials and equipment for which standards have been established by the agency.
4. Where codes as listed in Section General Requirement Section of the Specifications that establish label or approved requirements, furnish all materials and equipment with either the required labels affixed or the necessary written approval.
5. Provide the type and quantity of electrical materials and equipment necessary to complete Work and all systems in operation, tested and ready for use.
6. Provide and install all incidental items that belong to the Work described and which are required for complete systems.
7. All switchboards, distribution boards, panel boards and circuit breakers shall be of the same manufacturer.
8. All wiring devices such as switches and receptacles shall be of the same manufacturer.

H. Substitutions: Refer to Division 01

I. Submit comprehensive material list, shop drawings and complete technical data for the following equipment and materials:
1. General Requirements:
   a. Main service and distribution switchboards.
   b. Panelboards.
   c. Conduits
   d. Conductors, include all selected insulation types.
   e. Fuses
   f. Disconnect switches and Starters.
   g. Pullboxes, manholes and handholes.
   h. Standard lighting fixtures, specially fabricated fixtures, ballasts and lamps, with samples and sample of standard finish available (where requested).
   i. Control devices, standard and special receptacles, switches, outlets and finish device plates.

J. Utility Service:
1. Contractor shall verify the locations shown on the drawings and shall include extensions of lines to building service from locations which are acceptable to the Owner.
2. Verify electrical, civil, architectural and structural, dimensional and other requirements with the Owner.
3. Should any major modifications to the work indicated be necessary to comply with the Owner requirements, notify the Architect.
4. Contractor shall contact the utility company representatives to establish pre-construction coordination, obtain all necessary meters and/or approvals, and schedule utility work to coordinate with the construction schedule.
5. All utility services shall be installed per the utility company requirements. Verify final construction requirements with utility company service planners prior to construction.

K. Record Drawings: Refer to Division 01, Contract Closeout.

L. Work Responsibilities:

1. The drawings indicate diagrammatically the desired locations or arrangement of conduit runs, outlets, junction boxes and equipment and are to be followed. Execute the work so as to secure the best possible installation in the available space and to overcome local difficulties due to space limitations. The Contractor is responsible for the correct placing of his work. Where conflicts occur in plans and/or specifications, the most stringent application shall apply and shall be part of the base bid.
2. Locations shown on architectural plan or on wall elevations shall take precedence over electrical plan locations, but where a major conflict is evident, notify the Architect.
3. In the event minor changes in the indicated locations or arrangement are necessary due to developed conditions in the building construction or rearrangement of furnishings or equipment or due to interference with other trades, such changes shall be made without extra cost.
4. Verify dimensions and the correct location of Owner-Furnished equipment before proceeding with the roughing-in of connections.
5. All scaled and figured dimensions are approximate of typical equipment of the class indicated. Before proceeding with work carefully check and verify dimensions and sizes with the drawings to see that the furnished equipment will fit into the spaces provided without violation of applicable Codes.
6. Should any changes to the work indicated on the drawings or described in the specifications be necessary in order to comply with the above requirements, notify the Architect.
7. Contractor shall be responsible for coordination of coordinated drawings when required by the Architect.
8. Replace or repair, without additional compensation any work which does not comply with or which is installed in violation of any of these requirements.

M. Installation General: For special requirements, refer to specific equipment under these requirements.

1. Unless otherwise specified elsewhere in the specifications, do all excavating necessary for the proper installation of the electrical work.
2. Locations of Openings: Locate chases, shafts and openings required for the installation of the electrical work during framing of the structure. Do any additional cutting and patching required. Cutting or drilling in any structural member is prohibited without approval of the Architect. Furnish all access panels to make all boxes, connections and devices accessible as required by CEC.
3. Location of Sleeves: Where conduits pass through concrete walls, suspended slabs or metal deck floors, install sleeves of adequate size to permit installation of conduit. Sleeves shall be installed prior to pouring of concrete and shall have ends flush with the wall or extend 2 inches above floor surfaces. Verify locations.
4. Wherever conduit extends through roof, install flashings in accordance with drawings and details.
5. Contractor shall be responsible for cutting and patching which may be required for the proper installation of the electrical work.
6. Protect work, materials and equipment and provide adequate and proper storage facilities during the progress of the work. Storage outdoors shall be weather protected and shall include space heaters to prevent condensation. Provide for the safety and good condition of all work until final acceptance of the work. Replace all damaged or defective work, materials and equipment before requesting final acceptance.
7. Conduit and Equipment to be Installed: Clean thoroughly to remove plaster, spattered paint, cement and dirt on both exterior and interior. All underground conduits shall be mandrelled prior to pulling wire.
8. Conduit and Equipment to be Painted: Clean conduit exposed to view in completed structure by removing plaster and dirt. Remove grease, oil and similar material from conduit and equipment by wiping with clean rags and suitable solvents in preparation for paint.
9. Items with Factory Finish: Remove cement, plaster, grease and oil, and leave surfaces, including cracks and corners, clean and polished. Touch up scratched or bare spots to match finish.

10. Site Cleaning: Remove from site all packing cartons, scrap materials and other rubbish on a weekly basis. Vacuum out all cabinets, switchgear and panels and junction boxes prior to pulling any conductors.
11. Electrical equipment and materials exposed to public and in finished areas shall be finish-painted after installation in accordance with the Painting Section. All exposed screw-type fasteners, exterior, or interior in restrooms, shall be vandal-resistant spanner type; include tool.

N. Excavation, Cutting and Patching:
1. Excavating, trenching and backfilling required for the work of this Division in accordance with the applicable requirements of Division 2. Excavating and backfilling connected with electrical work, repaving cuts and providing and maintaining protective measures for the electrical work excavation required by the governing authorities having jurisdiction shall be performed as a part of the work of this Division.
2. Verify openings indicated on the drawings. Provide all cutting, patching and reinforcement of the construction of the building as required to install electrical work.

O. Tests
1. Equipment and systems for which the National Electrical Testing Association (NETA) has an approved or recommended procedure, shall be tested in accordance with that procedure. Test values shall equal values recommended by NETA. Copies of test reports shall be submitted as required under shop drawing submittals.
2. Resistance to ground tests shall be accomplished by a qualified independent testing firm to measure resistance to ground at grounding electrodes. Make tests before slabs or affected areas are poured in order that corrective measures, if required, may be taken. Submit a report showing the results of these measurements. If the resistances exceed values specified elsewhere or NETA test procedure recommendations, perform corrective measures required to reduce resistance to acceptable values.
3. Prior to energizing any motor, measure the service voltage for phase balance and report if unbalance exceeds 1% from mean.
4. Measure the three-phase voltage at no load and at maximum load conditions and submit to the engineer a report showing the results of these measurements.
5. Upon completion of the work and adjustment of all equipment, conduct an operating test. Conduct the test in the presence of an authorized representative of the Owner's Representative. Demonstrate system and equipment to operate in accordance with requirements of the Contract Documents and to be free from electrical and mechanical defects. Provide systems free from short circuits and grounds and show an insulation resistance between phase conductors and ground not less than the requirements of the governing electric code. Test circuits for proper neutral connection.
6. Complete tests prior to final inspection of project, including corrective work based on the results of the tests.
7. Perform special tests on systems and equipment as specified herein using personnel qualified to perform such tests.

P. Protection: Protect finish parts of the materials and equipment against damage during the progress of the work and until final completion and acceptance. Cover materials and equipment in storage and during construction in such a manner that no finished surfaces will be damaged or marred. Keep moving parts clean, dry and lubricated.

Q. Cleaning Up:
1. Upon completion of the work and at various time during the progress of the work, remove from the building all surplus materials, rubbish and debris resulting from the work of this Division.
2. Thoroughly clean switchgear including busses, apparatus, exposed conduit, metal work including the exterior and interior, and accessories for the work of this Division, of cement, plaster and other deleterious materials; remove grease and oil spots with cleaning solvent; carefully wipe surfaces and scrape cracks and corners clean.
3. Thoroughly polish chromium or plated work. Remove dirt and stains from lighting fixtures.

4. Leave the entire installation in a clean condition.

R. Completion:
1. The work will not be reviewed for final acceptance until operating and maintenance data, manufacturer's literature, panel directories and nameplates specified herein have been approved and properly posted or installed and final cleaning of equipment and premises has been completed.
2. When the installation is complete and adjustments have been made, operate the system for a period of one week, during which time demonstrate that systems are completed and operating in conformance with the specifications.

S. Operating and Maintenance Data: Submit complete and at one time, prior to acceptance of the installation, 4 copies of manufacturer's instructions for operation and maintenance of electrical equipment, including replacement parts lists. As specified in Division 01

T. Inspection and Acceptance Procedures: The Architect will submit observation reports periodically during the construction phase detailing Contract deficiencies. The Contractor is responsible for making corrections immediately. Notice of Completion of the project will not be made until all items have been corrected.

U. Final Completion of Electrical Systems:
1. Prior to Final Completion of operating electrical systems, the Contractor shall:
   a. Provide materials of the type and quality specified and as necessary for proper operation, tested and ready for use.
   b. Furnish the required Operating and Maintenance Data/Manuals.
   c. Clean up of the project pertaining to this Division of the work.
   d. After installation has been completed and adjustments made, operate the system for a period of one week, during which time, demonstrate to the Architect that systems are complete and operating in conformance with Contract Documents.
   e. Conduct tests required and as specified in this Division and submit test reports and corrective actions taken.
   f. Submission of warranties and guarantees.
2. Final Completion of Work Shall be Contingent On:
   a. Contractor replacing defective materials and workmanship.
   b. Upon completion of work and adjustments made, Contractor shall conduct an operating test for each system for approval at such time as Architect directs. Conduct test in presence of authorized representative of Architect and demonstrate that systems and equipment do operate in accordance with requirements of the Contract Documents and are free from electrical and mechanical defects.
   c. Contractor shall provide the necessary training programs and instructions to the Owner's representative. Number of hours shall be a minimum of four (4) hours for each system or days as required under separate Sections of these Specifications. Complete operation and maintenance manuals shall be provided at least two (2) weeks prior to training.
   d. Submit copies of manufacturer's instructions and maintenance of electrical equipment including replacement parts lists. Each set shall include one set of shop drawings of equipment installed.

V. Submittals for Change Orders: When changes are made during the construction phase, deletions and additions shall be presented in a manner that will indicate the cost of each item of material and corresponding labor. Markup shall be then added in accordance with the requirements of the General Conditions as modified by the Supplementary Conditions.

W. The Contractor at a time convenient to the Owner shall provide instruction to the Owner's operating personnel in the proper operation and maintenance of all equipment and systems. The instructors shall have received factory training and shall be thoroughly familiar with the equipment installed. The operating personnel shall receive the number of days instruction as indicated in other sections.

1.03 PROJECT RECORD DOCUMENTS

A. Record Drawings: CAD: Use a computer aided drafting (CAD) system in the preparation of record drawings for this Project. Acceptable CAD systems shall be capable of producing files in AutoCAD Version 2012 compatible DWG or DXF format. Owner's consultant will furnish CAD backgrounds for use by the Contractor after construction is 85% complete except where prohibited by Contract.

B. Record Set During the Work: At site, maintain at least one set of Drawings as a Field Record Set. Also maintain at least one copy of all Addenda, Modifications, approved submittals, correspondence, and transmittals at site. Keep Drawings and data in good order and readily available to Architect and Owner.

C. Changes: Clearly and correctly mark Record Drawings to show changes made during the construction process at the time the changed work is installed. No such changes shall be made in the work unless authorized by the Architect.

D. Final Record Drawings: Conform to Division 01 requirements.

E. Preparation of Final Record Drawings: Contractor shall transfer recorded changes in the work indicated on the Field Record Set to the record set. Changes shall be neatly and clearly drawn and noted by skilled draftsmen, and shown technically correct.

F. Approval: Prior to Architect's inspection for Substantial Completion, submit the Final Record Drawings to the Architect for review, and make such revisions as may be necessary for Final Record Drawings to be a true, complete, and accurate record of the work.

G. Manuals: Obtain data from the various manufacturers and submit instruction, operation, and maintenance manuals as required and to the extent required under other Sections.

H. At all times when the work is in progress, maintain at the workplace, fabrication shop or Project Site as applies, a complete separate, clean, undamaged set of the latest stamped, actioned submittals. As work progresses, maintain records of "as installed" conditions on this set in suitable ink or chemical fluid. Update the set daily. After successful completion of Project Site testing specified herein, and after completion of Punch List corrections, copy all records of "as installed" conditions on to originals.

I. Quantity:
   1. Review sets: As for Shop and Field Drawings.
   2. Record set: Refer to Division 01.

J. Content: All drawings required under "Field and Shop Drawings". Show "as installed" condition. Where room designations according to Project permanent signage differ from construction designations in the Contract Documents, show both designations.

K. Warranty Certificates: Comply with Division 01.

PART 2 - COMMISSIONING

2.01 COMMISSIONING OF ELECTRICAL SYSTEMS

A. Include cost for commissioning requirements in the contract price.

B. Attend commissioning meetings scheduled by the CxA.

C. Prepare preliminary schedule for indoor lighting system inspections, O&M manual submission, training sessions, lighting controls testing, system verification, performance testing, and system completion for use by the CxA. Update schedule as appropriate throughout the construction period and provide updated schedule to the commissioning team.

D. Verify proper installation and performance of all electrical services provided.

E. Complete Title 24 Certificate(s) of Installation and manufacturer’s pre-start checklists prior to scheduling startup of HVAC and electrical equipment.
   1. Retain Certificate(s) of Installation in a 3-ring binder in an organized fashion. Binder is to remain on the job site
   2. Make Certificate(s) of Installation available for CxA review upon request.
   3. Retain calibration records for equipment provided with manufacturer calibrated sensors in the Certificate(s) of Installation binder.

F. Where applicable, complete the Certificate(s) of Acceptance per the contract documents.
   1. Retain Certificate(s) of Acceptance in a 3-ring binder in an organized fashion. Binder is to remain on the job site

2. Provide copies of all Certificate(s) of Acceptance to the CxA.
3. Certificate(s) of Acceptance shall be conducted by companies who are certified as California Advanced Lighting Controls Training Program Acceptance Technician (CALCTP-AT) employer and only completed by those employees of said company who are certified to complete the respective acceptance test.

G. Monitor and respond to Resolution Tracking Forms distributed by the CxA in order to expedite corrective actions necessary to achieve design intent.

H. Participate in the Certificate(s) of Acceptance and Functional Performance Tests as required to achieve design intent.

I. Participate in the opposite-season testing as required to achieve design intent.

J. Participate in O&M Training as required by project specifications.

K. Ensure participation of major equipment manufacturers and their representatives as applicable.

L. Obtain O&M data on all equipment and assemble in binders using tabs as required.

M. Conduct a maintenance orientation and inspection with hands on training per the contract documents.

N. Provide written certification and completed Certificate(s) of Installation forms and checklists documenting that the following work has been completed in accordance with the plans and specifications and that they are functioning as designed.
1. Correct labeling of all circuits with connected equipment.
2. Lighting system controls operations, including occupancy sensors, automatic time controls or Energy Management control, override timers, manual dimming controls, exterior lighting controls, multi-level switching, as applicable to the Work.

END OF SECTION

SECTION 31 22 19
FINISH GRADING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This section includes the following:

1. Weeding.

2. Finish grading of lawn and planting areas.

1.3 DEFINITIONS

A. Finish grading: finish grading shall consist of adjusting and finishing soil surfaces with site or imported topsoil, raking grades to a smooth, even, uniform plane. Remove and legally dispose of all extraneous matter off site. Facilitate natural run-off water and establish grades and drainage indicated as part of the contract work.

PART 2 PRODUCTS

2.1 MATERIALS

A. Topsoil: Refer to Division 02; Landscape Planting.

B. Obtain imported topsoil from approved local sources.

PART 3 EXECUTION

3.1 EXAMINATION

A. Verification of conditions: Prior to commencing the finish grading, review the installed work of other trades and verify that their work is complete.

1. Rough Grading: Grading for ADA accessible trail, amphitheater, Frog Pond exhibit, wood decking area, and parking lot renovation shall be established to within plus or minus 0.10 foot prior to beginning of finish grading.

B. Import topsoil only when necessary to supplement site soil to achieve grades shown on drawings, or if site soil is unsuitable for planting.

3.2 PREPARATION

A. Weeding: Before finish grading, weeds and grasses shall be dug out by the root or sprayed with an herbicide and disposed of off-site. This procedure is outlined under the Landscape Planting Section.

B. Debris: To a depth of 6 inches: remove stones and debris 1 inch in diameter and greater and clumps of earth that do not break up. Dispose of off-site, or incorporate in fill areas per section 31 20 00 Earthwork.

3.3 INSTALLATION

A. General: When rough grading and weeding have been completed, and the soil has dried sufficiently to be readily worked, lawn and planting areas shall be graded to the elevations indicated on the Drawings.

1. Grades indicated on Drawing are grades that will result after thorough settlement and compaction of the soil.
2. Grades not otherwise indicated shall be uniform finish grades and, if required, shall be made at the direction of the Architect.

3. Finish grades shall be smooth, even, and a uniform plane with no abrupt change of surfaces.

4. Soil areas adjacent to buildings shall slope away from the building to allow a natural run-off of water, and surface drainage shall be directed as indicated on the drawings by remodeling surfaces to facilitate the run off water at 2% minimum grade.

5. Low spots and pockets shall be graded to drain properly.

B. Drainage: Finish grade with proper slope to drains or existing swales.

1. Flow lines, designated or not, shall be graded and maintained to allow free flow of surface water.

2. If any drainage problems arise during construction period due to Contractor's work (such as, but not limited to, low spots, slides, gullies and general erosion), the Contractor shall be responsible for repairing these areas to a condition equal to their original condition, and in so doing shall prevent further drainage problems from occurring.

C. Toe of slope: To prevent soil creep or erosion across pavement, where pavement (walk, curb, etc.) is at the toe of a slope, finish grade is to level out or swale slightly at least 6" before reaching pavement.

D. Moisture Content: The soil shall not be worked when the moisture content is so great that excessive compaction occurs, nor when it is so dry that dust may form in the air or that clods do not break readily. Water may be applied, if necessary, to provide moisture content for tilling and planting operations. It is the Contractor's responsibility to control dust that is spread as a result of grading operations.

E. Grades: The finish grade in areas to be planted with turf shall be 2- inches below grade of adjacent pavement and walks.

F. Compaction: Soils in planted areas shall be loose and friable, yet firm enough that no settling occurs from normal foot traffic or irrigation.

3.4 FIELD QUANTITY CONTROL

A. It is the Contractor's responsibility to contact the Architect 48 hours or two working days in advance of each agreed observation or conference.

B. Schedule for On-Site Inspections: at completion of finish grading and prior to any planting operations.

END OF SECTION

SECTION 32 12 43
PERVIOUS CONCRETE

PART 1 GENERAL

1.01 Scope of Work:

A. The Work to be completed under this contract includes the furnishing of all labor, materials and equipment necessary for construction of Portland Cement Pervious Concrete Pavement for picnic table slab areas in conformance with the plans and specifications.

1.02 References:

A. American Concrete Institute
   1. ACI 305 “Hot Weather Concreting”
   2. ACI 522 “Report on Pervious Concrete”
   3. ACI Flatwork Finisher Certification Program
   4. ACI Field Technician Certification Program
   5. American Society for Testing and Materials
   6. ASTM C29 “Test for Bulk Density (Unit Weight) and Voids in Aggregate”
   7. ASTM C33 “Specification for Concrete Aggregates”
   8. ASTM C42 “Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete.”
   9. ASTM C94 Specification for Ready-Mixed Concrete
   10. ASTM C117 “Test Method for Material Finer than 75-µm (No. 200) Sieve in Mineral Aggregates by Washing.”
   11. ASTM C138 “Test Method for Density (Unit Weight), Yield and Air Content (Gravimetric) of Concrete.”
   12. ASTM C140 “Test Methods for Sampling and Testing Concrete Masonry Units and Related Units”
   13. ASTM C150 “Specification for Portland Cement”
   14. ASTM C172 “Practice for Sampling Freshly Mixed Concrete”
   15. ASTM C260 “Specification for Air-Entraining Admixtures for Concrete”
   16. ASTM C494 “Specification for Chemical Admixtures for Concrete”
   17. ASTM C595 “Specification for Blended Hydraulic Cements”

B. ASTM C618 “Specification for Coal Fly Ash and Raw or Calcined Natural
   1. Pozzolan for Use as a Mineral Admixture in Portland Cement Concrete.”
   2. ASTM C989 “Specification for Ground Granulated Blast-Furnace Slag for Use in Concrete and Mortars.”
   3. ASTM C1077 “Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation.”
   4. ASTM C 1602 “Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete”
   5. ASTM D1557 “Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft3).”
   6. D3385 “Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer”
   7. ASTM E329 “Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction.”

1.03 Quality Assurance:

A. Prior to award the contractor shall submit evidence of four successful Pervious Concrete Pavement projects or accumulated over 75,000 sq ft of installation including but not limited to the following:

B. Project name and address, owner name and contact information

C. Test results including density (unit weight), void content and thickness

D. At least three members or 30% of the crew should be certified by the National Ready-Mixed Concrete Association as a “Certified Pervious Concrete Technician.”

E. At least one member of the crew should be certified by the National Ready-Mixed Concrete Association as a “Certified Pervious Concrete Installer.”

F. At least one member of the crew should be a Certified Concrete Finisher in accordance with the criteria of the American Concrete Institute.

1.04 Special Equipment: Pervious concrete requires specific equipment for compaction and jointing. The pavement shall be jointed and compacted using the methods listed.

A. Rolling compaction shall be achieved using a minimum 10-inch diameter steel pipe that spans the width of the section placed (and exerts a vertical pressure of at least 10 psi on the concrete).
B. Plate compaction shall be achieved using a standard soil plate compactor that has a base area of at least two square feet and exerts a minimum of 10 psi vertical pressure on the pavement surface.
C. When joints are placed in pervious pavements, they may be constructed by rolling, forming or sawing. Rolled joints shall be formed using a "salt roller" to which a beveled fin with a minimum depth of ¼ the thickness of the slab has been welded around the circumference of a steel roller. Sawed joints shall be constructed using an early entry or wet saw.

1.05 Submittals: Prior to commencement of the work Contractor shall submit the following:
A. Concrete materials:
1. Proposed concrete mixture proportions including all material weights, volumes, density (unit weight), water cement ratio, and void content.
2. Aggregate type, source and grading.
3. Cement, fly ash and admixture manufacturer certifications
B. Qualifications: Evidence of qualifications listed under Quality Assurance.
C. Project details: Specific plans, details, schedule, construction procedures and quality control plan.
D. Subcontractors: List all materials suppliers and subcontractors to be used on the project.

1.06 Test Panels: Prior to construction, test panel(s) shall be placed and approved by the City.
A. Test panel(s) shall be constructed in accordance with the plans and specifications. A minimum 225 sq. ft panel size shall be placed, jointed and cured using materials, equipment, and personnel proposed for the project.
B. Test panel(s) cost and removal, if necessary, shall be included as a line item in the contract proposal and contract.
C. Quality: Test panels shall have acceptable surface finish, joint details, thickness, porosity and curing procedures and shall comply with the testing and acceptance standards listed in the Quality Control section of this specification.
D. If test panels placed at the site are found to be deficient in thickness, density (unit weight) or percentage of voids, or of an unacceptable appearance, they shall be removed at contractor's expense and taken to an approved landfill or recycling facility. If test panels are found to be satisfactory, they may be left in-place and included in the completed work.

PART 2 MATERIALS

2.01 Cement: Portland cement Type II or V conforming to ASTM C150 or Portland cement Type IP or IS conforming to ASTM C595.

2.02 Supplementary Cementitious Materials:
A. Class F Fly ash conforming to ASTM C618
B. Ground Iron Blast-Furnace Slag conforming to ASTM C989

2.03 Chemical Admixtures:
A. Air entraining agents shall comply with ASTM C260.
B. Chemical Admixtures shall comply with ASTM C494.
C. Hydration stabilizers are permitted to be used when it is necessary to increase concrete placement time to 90 minutes and improve finishing operations.

2.04 Aggregates:
A. Coarse aggregate shall comply with ASTM C33. Size 8 (3/8" to No. 16) or Size 89 (3/8 in. to No. 50) shall be used unless an alternate size is approved for use based on meeting the project requirements. Fine aggregate complying with ASTM C33, if used, shall not exceed 3 cu. ft.
B. Larger aggregate sizes may increase porosity but can decrease workability. Avoid well graded aggregates as they may reduce porosity, and may not provide adequate void content.
C. Where available, natural rounded aggregates are recommended.

2.05 Water: Water shall comply with ASTM C 1602.

2.06 Mixture Proportions: Contractor will submit the composition of the proposed concrete mixtures to the City's representative for review and/or approval and submittals shall comply with the following provisions unless an alternative composition is demonstrated to comply with the project requirements.
A. Cementitious Content: For pedestrian pavements, total cementitious shall not be less than 600 lbs/cy.
B. Supplementary cementitious content: Fly ash: 25% maximum. Slag: 50% maximum
C. Water / Cementitious Ratio: Maximum 0.35 for pedestrian pavements.

D. Aggregate Content: The bulk volume of aggregate per cubic yard shall be equal to 27 cubic foot when calculated from the dry rodded density (unit weight) determined in accordance with ASTM C29 jigging procedure.
D. Admixtures: Admixtures shall be used in accordance with the manufacturer's instructions and recommendations.
E. Mix Water: The quantity of mixing water shall be established to produce a pervious concrete mixture of the desirable workability to facilitate placing, compaction and finishing to the desired surface characteristics.

PART 3 EXECUTION

3,01 Subgrade:

A. Material: The top 6 inches shall be composed of granular or gravelly soil that is predominantly sandy with no more than a moderate amount of silt or clay. Granular sub-base may be placed over the subgrade.
B. Permeability: Subgrade shall have a minimum permeability of 0.5 inch per hour determined in accordance with ASTM D3385.
C. Compaction: Compact sub-grade to a minimum 90% and a maximum 95%. Over-compaction can inhibit subgrade percolation. Compaction shall be in accordance with ASTM D1557.
D. Fill: If fill material is required to bring the subgrade to final elevation, it shall be clean and free of deleterious materials. It shall be placed in 6-inch maximum layers, and compacted by a mechanical vibratory compactor to a minimum density of 90% in accordance with ASTM D1557.
E. Moisture: The subgrade moisture content shall be 1% - 3% above optimum as determined by ASTM D1557.
F. Verify subgrade preparation, grade, and conduct permeability & density tests for conformance to project requirements.

3.02 Formwork:

A. A. Form materials are permitted to be of wood or steel and shall be of width to the depth of the pavement. Forms shall be of sufficient strength and stability to support mechanical equipment without deformation of plan profiles following spreading, strike-off and compaction operations. Forms may have a removable spacer of ½" to ¾" thickness placed above the depth of pavement. The spacers shall be removed following placement and vibratory strike-off to allow roller compaction.
B. The AC road pavement, adjacent to the PCC pervious concrete, shall be saw cut a minimum of 12" from the back of driveway to facilitate the PCC forming process and ensure a smooth join. All forms shall be removed from the site and necessary backfill and asphalt replaced at location within 48 hours of concrete pour. Irrespective of thickness of existing pavement, the AC patch shall consist of six (6) inches of asphalt concrete, Type III / C2 (PG-64-10) on six (6) inches of Class 2 Aggregate Base.

3.03 Mixing and Hauling:

A. Production: Pervious concrete shall be manufactured and delivered in accordance with ASTM C 94.
B. Mixing: Mixtures shall be produced in central mixers or in truck mixers. When concrete is delivered in agitating or non-agitating units, the concrete shall be mixed in the central mixer for a minimum of 1.5 minutes or until a homogenous mix is achieved. Concrete mixed in truck mixers shall be mixed at the speed designated as mixing speed by the manufacturer for 75 – 100 revolutions.
C. Transportation: The pervious concrete mixture may be transported or mixed on site and discharge of individual loads shall be completed within one (1) hour of the introduction of mix water to the cement. Delivery times may be extended to 90 minutes when a hydration stabilizer is used.
D. Discharge: Contractor will visually inspect each truckload for consistency of concrete mixture. Water addition is permitted at the point of discharge to obtain the required mix consistency provided a measurable quantity is used before more than 0.5 cubic yard of concrete is discharged. A minimum of 30 revolutions at the manufacturer's designated mixing speed shall be required following the addition of any water to the mix. Discharge shall be a continuous operation and shall be completed as quickly as possible. Concrete shall be deposited as close to its final position as practical and such that discharged concrete is incorporated into previously placed plastic concrete.

3.04 Placing and Finishing:

A. Contractor shall provide either slip form or vibratory form riding equipment to place the concrete unless otherwise approved by the City Inspector or Engineer in writing. Internal vibration shall not be permitted.

Unless otherwise permitted placement procedures shall utilize a mechanical vibratory screed or a roller screed (Bunyan screed) to strike off the concrete ½" to 3/4" above final height, utilizing the form spacers described in Formwork. Except for small, hand formed areas, strike-off by non-vibratory means (wooden 2x4 screeds shall not be permitted.)

B. Placed concrete shall not be disturbed while in the plastic state. Low spots after the screeding operation shall be filled up and tamped with hand tampers.

C. Following strike-off, remove spacers and compact the concrete to the form level, utilizing a steel roller, a plate compactor or other method approved by the City. Contractor shall take care during compaction, that sufficient compactive force is achieved without excessively working the concrete surface that might result in sealing off the surface porosity.

D. Hand tampers shall be used to compact the concrete along the slab edges immediately adjacent to the forms. After compaction, inspection and repair, no further finishing shall be performed on the concrete. Surface curing shall begin immediately.

E. Contractor shall compact the pervious concrete pavement to the required cross-section and shall not deviate more than +/- 3/8 inch in 10 feet from profile grade.

3.05 Jointing

A. Joints in pervious pavements can be precluded at the option of the City. Control (contraction) joints shall be installed at regular intervals not to exceed 40 feet, or two times the width of the placement. The control joints shall be installed at ¼ the depth (to a maximum depth of 1½") of the thickness of the pavement. These joints can be installed in the plastic concrete or saw cut after the concrete has hardened.

B. Jointing plastic concrete: Joints installed in the plastic concrete shall be constructed utilizing a small roller as described in the Special Equipment section of this specification. When this option is used, Contractor shall perform immediately after roller compaction and prior to curing.

C. Jointing hardened concrete: Saw-cuts shall be made as soon as the pavement has hardened sufficiently to prevent raveling and uncontrolled cracking. Early entry sawing occurs later with pervious concrete than with conventional concrete. For either method, the curing cover shall be removed and the surface kept misted to prevent moisture loss. After sawing the curing cover shall be securely replaced for the remainder of the curing cycle.

D. Transverse construction joints: Transverse construction joints shall be installed whenever placing is suspended for 30 minutes or whenever concrete is no longer workable.

E. Isolation joints: Isolation joints shall be used when abutting fixed vertical structures such i.e. light pole bases, building foundations, etc. Isolation material shall be positioned before concrete is placed and shall be the depth of the pavement section.

3.06 Curing:

A. Curing procedures shall begin no later than 20 minutes after final placement operations have been completed. The pavement surface shall be covered with a minimum of six (6) mil thick polyethylene sheet or other approved covering material. The cover shall overlap all exposed edges and shall be secured to prevent dislocation due to winds or adjacent traffic conditions. For additional guidance on hot weather concreting, see ACI 305.

B. The low water/cement ratio and high amount of exposed surface of pervious concrete makes it especially susceptible to drying out. Immediately after screeding, the surface shall be kept moist and evaporation prevented using a spray applied curing compound and/or evaporation retarder immediately after screeding.

C. The curing cover shall remain securely in place for a minimum of 7 days. No vehicular traffic shall be permitted on the pavement until curing is complete and no truck traffic shall be permitted for at least 14 days. The City has the option of permitting earlier traffic opening times.

3.07 Quality Control:

A. At the City's discretion, they can employ a testing laboratory that conforms to the requirements of ASTM E329 and ASTM C1077. All personnel engaged in testing shall be certified by the American Concrete Institute as ACI Concrete Field Technicians or equivalent.

B. Traditional Portland cement pavement testing procedures based on strength and slump control are not applicable to this type of pavement material.

C. Concrete tests shall be performed for each 150 cubic yards or fraction thereof with a minimum of one test for each day's placement.

D. Plastic concrete shall be sampled in accordance with ASTM C 172 and density (unit weight) measured in accordance with ASTM C 138. The density (unit weight) of the delivered concrete shall be +/- 5 pcf of the design density (unit weight).
E. Plastic void content shall be calculated as per ASTM C138, Gravimetric Air Determination and compared to the void percentage required by the Hydraulic design. Unless otherwise specified, Void content shall be between 15% and 25%.
F. Hardened concrete shall be tested for in-place infiltration rate, thickness, and void content. The infiltration rate shall not be less than 100 inches per hour when tested using the procedure described in paragraph 3.07.F.1. One set of three cores per 150 cy of concrete placed on one day or fraction thereof shall be drilled in accordance with ASTM C 42
G. The infiltration test shall be performed in accordance with the following procedure:
    a. The apparatus shall consist of a:
        i. One gallon, minimum size, water container with a spout. The spout shall be able to produce a stream with a circular cross-section and large enough in diameter to discharge the entire contents of the container in 20 seconds or less.
        ii. Stopwatch capable of indicating elapsed time to the nearest second.
        iii. Tape measure of at least 0.95 m (36 inches) that is graduated in 5 mm (1/4 inch) increments or smaller.
        iv. The water shall be free of suspended solids. The volume of water shall be determined to two significant figures
        v. The testing procedure is:
            1. Place a pre-measured amount of water into the container.
            2. Pour the water onto the pervious concrete surface. Control the discharge rate by manually adjusting the angle of the spout so that the pooling of water on the concrete surface is between 25.4 cm to 76.2 cm (10 to 30 inches). Pour the entire contents of the container onto one spot and hold the spout over the spot until the pool of water vanishes.
            3. Start the stopwatch when the water initially touches the concrete surface and stop it when the pool disappears from the surface.
            4. Measure the longest dimension of the dampened area. Measure the width of the pool perpendicular to the first measurement.
            5. Repeat this procedure in a minimum of 4 separate locations.
        vi. The calculation of the Infiltration Capacity shall be as follows:
            1. The formula for SI Units is: IC= (V) (14.4X106)/ (pi) (d1) (d2) (t) inches per hour.
            2. The formula for U.S. Standard Measures is: IC=(V)(3,326,400)/(pi)(d1)(d2)(t) inches per hour

            Where:
            IC is Infiltration Capacity
            V is the volume of water in gallons or liters
            d1 and d2 are the dimensions that were determined in part 4
            Pi is about 3.14159

            3. The test report shall include at a minimum:
                a. The time and date of testing.
                b. The name and affiliation of the person performing the test.
                c. The location of the site being tested.
                d. The location of each site tested.
                e. The volume of water used at each test site.
                f. The length of the two measurements taken at each site.
                g. The discharge time for the water at each location.
                h. The infiltration capacity at each location.
                i. The average infiltration capacity for the site.
H. The cores when measured for length shall not be more than ½ inch less than the specified design thickness.
I. The cores shall be tested for void content using the following procedure:
    a. Weight of saturated, surface-dry (ssd) specimen in air, B

b. Weight of ssd specimen in water, C
c. Determine bulk specific gravity (ssd), B/(B-C)
d. Weight in water of ssd specimen wrapped in parafilm or saran wrap, D
e. Volume of core wrapped in parafilm or saran wrap by displacement, B-D = Vc
f. Volume of solid part of core (aggregate), B-C = Vs
g. Percentage of permeable voids, ((Vc-Vs)/Vc)*100

END F SECTION 34 12 43

SECTION 32 18 16

RESILIENT PLAYGROUND SURFACING

PART 1 - GENERAL

1.4 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.5 SUMMARY

A. This section includes the following:

1. SpectraPour Supreme Playground Surfacing System

2. Mfr. / Installer (Or Equal):

- SpectraTurf / 555 South Promenade Avenue, #103 / Corona, Ca 92879 / 951.736.3579 / 951.734.3630 fax / info @specraturf.com / www.spectraturf.com

1.6 RELATED SECTIONS

A. Pervious Concrete

B. Drainage and Sewer Piping

1.7 REFERENCES

A. American Society for Testing and Materials (ASTM):

1. ASTM D412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.
2. ASTM D624 Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
3. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Floor Surfaces as Measured by the James Machine.
4. ASTM D2859 Standard Test Method for Flammability of Finished Textile Floor Covering Materials.
5. ASTM E303 Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester.
6. ASTM F1292 Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.
7. ASTM F1951 Standard Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment

1.8 SYSTEM DESCRIPTION

A. Performance Requirements: Provide a 2 layer rubber-urethane playground surfacing system which has been designed, manufactured and installed to meet the following criteria:

1. Shock Attenuation (ASTM F1292):

2. Gmax: Less than 200.

3. Head Injury Criteria: Less than 1000.
4. Flammability (ASTM D2859): Pass.
5. Tensile Strength (ASTM D412): 60 psi (413 kPa).
6. Tear Resistance (ASTM D624): 140%.
7. Water Permeability: 0.4 gal/yd2/second.
8. Accessibility: Comply with requirements of ASTM F1951.

1.9 SUBMITTALS

A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.

B. Product Data: Submit manufacturer's product data and installation instructions.

C. Verification Samples: Submit manufacturer's standard verification samples of 6" x 6" minimum.

D. Quality Assurance/Control Submittals: Submit the following:

1. Certificate of qualifications of the playground surfacing installer.

E. Closeout Submittals: Submit the following:

1. Warranty documents specified herein.

1.10 QUALITY ASSURANCE

A. Qualifications: Utilize an installer approved and trained by the manufacturer of the playground surfacing system or a direct employee of the manufacturer's installation division, having experience with other projects of the scope and scale of the work described in this section.

B. Certifications: Certification by manufacturer that installer is an approved applicator of the playground surfacing system.

C. International Play Equipment Manufacturers Association (IPEMA) certified.

1.11 DELIVERY, STORAGE & HANDLING

A. General: Comply with Division 1 Product Requirement Section.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at a minimum temperature of 40 degrees F (4 degrees C) and a maximum temperature of 90 degrees F (32 degrees C).

1.12 PROJECT SITE CONDITIONS

A. Environmental Requirements: Install surfacing system when minimum ambient temperature is 40 degrees F (1 degree C) and maximum ambient temperature is 95 degrees F (32 degrees C). Exception to the temperature requirements can be made by the manufacturer of the surfacing system. Do not install in steady or heavy rain.

1.13 WARRANTY

A. Project Warranty: Refer to Conditions of the Contract for project warranty provisions.

B. Proper drainage is critical to the longevity of the SpectraPour Supreme surfacing system. Inadequate drainage

will cause premature breakdown of the poured system in affected areas; and void the warranty.

1. Warranty Period: Seven (7) years from date of completion of work.

PART 2 PRODUCTS

2.2 SPECTRATURF SUPREME POURED-IN-PLACE PLAYGROUND SURFACING SYSTEM

A. Manufacturer: SpectraTurf, Inc.

1. Contact: 555 South Promenade Avenue, #103, Corona, CA 92879; Telephone: (800) 875-5788; Fax: (951) 734-3630; E-mail: info@spectraturf.com website: http://www.spectraturf.com.

B. Proprietary Products/Systems. SpectraPour Supreme playground surfacing system, including the following:

1. SpectraPour Supreme Primer:

a. Material: Urethane.

2. SpectraPour Supreme Basemat:

a. Material: Blend of 100% recycled SBR (styrene butadiene rubber) and urethane.

b. Thickness: 2.5".

3. SpectraPour Supreme Top Surface:

a. Material: Blend of Spectra TPV 0.5 to 1.5 mm granules and aliphatic urethane binder.

b. Top Surface Thickness: minimum 1/2", maximum 5/8".

c. Colors: Refer to Plans.

d. Dry Static Coefficient of Friction (ASTM D2047): 1.0.

e. Wet Static Coefficient of Friction (ASTM D2047): 0.9.

f. Dry Skid Resistance (ASTM E303): 89.

g. Wet Skid Resistance (ASTM E303): 57.

2.3 MIXES

A. Required mix proportions by weight:

1. Basemat: 16+% urethane (as ratio: 14% urethane divided by 86% rubber). 14% urethane, 86% rubber (based on entire rubber & urethane mix).

2. Top Surface: 25% urethane (ratio: 20% urethane divided by 80% TPV). 20% urethane, 80% TPV (based on entire rubber & urethane mix).

PART 3 EXECUTION

3.5 MANUFACTURER'S INSTRUCTIONS

A. Comply with the instructions and recommendations of the playground surfacing manufacturer.

3.6 EXAMINATION

A. Substrate preparation must be in accordance with surfacing manufacturer's specification. New asphalt must be fully cured – up to 30 days. New concrete must be fully cured – up to 7 days.

B. Proper drainage is critical to the longevity of the SpectraPour Supreme surfacing system. Inadequate drainage will cause premature breakdown of the poured system in affected areas; and void the warranty.

3.7 PREPARATION

A. Surface Preparation: Using a brush or short nap roller, apply primer to the substrate perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft2/gal.

3.8 INSTALLATION

A. Do not proceed with playground surfacing installation until all applicable site work, including substrate preparation, fencing, playground equipment installation and other relevant work, has been completed.

B. Basemat Installation:

1. Using screeds and hand trowels, install the basemat at a consistent density of 29 pounds, 1 ounce per cubic foot to the specified thickness.

2. Allow basemat to cure for sufficient time so that indentations are not left in the basemat from applicator foot traffic or equipment.

3. Do not allow foot traffic or use of the basemat surface until it is sufficiently cured.

C. Primer Application: Using a brush or short nap roller, apply primer to the basemat perimeter and any adjacent vertical barriers such as playground equipment support legs, curbs or slabs that will contact the surfacing system at the rate of 300 ft2/gal (7.5 m2/L).

D. Top Surface Installation:

1. Using a hand trowel, install top surface at a consistent density of 58 pounds, 9 ounces per cubic foot to a nominal thickness of 1/2".

2. Allow top surface to cure for a minimum of 72 hours.

3. At the end of the minimum curing period, verify that the top surface is sufficiently dry and firm to allow foot traffic and use without damage to the surface.

4. Do not allow foot traffic or use of the surface until it is sufficiently cured.

3.5 PROTECTION

A. Protect the installed playground surface from damage resulting from subsequent construction activity on the site

END OF SECTION

SECTION 32 34 01
TREE AND LANDSCAPE PRESERVATION

PART 1 - GENERAL

1.1 TREE PROTECTION

A. The park is populated with trees and shrubs and the CONTRACTOR shall protect all existing trees and shrubs in place and as indicated on the plans. The CONTRACTOR shall retain an Arborist to work with the City to adhere to all Tree and Landscape Preservation Specifications as set forth in this Section. If any trees and shrubs are damaged above and beyond what is reasonable due to project construction, the Contractor Arborist shall consult with the to determine the cost replacement based on trunk formula method.

B. Any Work considered under this Section shall be considered incidental and no separate pay item will be considered under this contract.

PART 2 - PRODUCTS

2.01 Not Used.

PART 3 - EXECUTION

3.1 DEMOLITION AND SITE CLEARING

A. The CONTRACTOR shall coordinate with Contractor Arborist, and City Inspector to accomplish construction of the park as it relates to existing trees and shrubs, preservation and protection of these resources.

B. The following work shall be accomplished before any demolition or site clearing activity occurs in the area encompassed by a line 10 feet outside the dripline of any tree to be protected in the project.

1. Conduct a pre-construction meeting with the Contractor, City Inspector, Parks Project Manager, City arborist, Contractor Arborist, and Landscape Architect to review construction procedures, access, haul routes and tree protection measures. All trees and shrubs to be preserved and those projected to be removed shall be tagged for this meeting and Contractor shall receive approval of those designations prior to any potentially damaging work being done in the vicinity of those plants.

2. Contractor and Contractor Arborist shall stake the limits of tree and shrub preservation zone (TPZ) and obtain approval from the City Inspector, Parks Project Manager, and City arborist.

3. Contractor shall install six-foot high chain link fences with posts supported on stands to delineate the TPZ. Fence shall remain upright and in good condition until all work has been completed. Fencing may not be removed or relocated without the approval of the City Inspector, Parks Project Manager, and City arborist. Fencing shall be approved by City Inspector, Parks Project Manager, and City arborist prior to purchasing, delivery, and installation. Fencing shall be kept in original installed condition throughout the duration of construction. If fencing is ripped, torn, removed, or dislocated during construction, Contractor shall repair immediately upon notification by the City Inspector, Parks Project Manager, and City arborist.

4. Contractor shall report any damage to a tree or shrub due to construction activities to the City Inspector, Parks Project Manager, and City arborist within one (1) hour of the incident so that remedial action can be taken and appropriate treatments can be applied immediately. City Parks shall coordinate with City Inspector, Parks Project Manager, and City arborist and Contractor Arborist to determine replacement as required. All remedies shall be at the Contractor's expense.

5. When construction access roads, paths or activities must occur over the root zone area of a tree, a 6-inch bed of mulch (wood chips) shall be placed over the root zone area of the tree to prevent soil compaction. The mulch material shall be replenished to maintain its thickness of 6 inches at all times, until the end of

the construction activity, after which it shall be removed.

6. When temporary clearance is needed for access under a tree, branches shall be carefully tied back as directed by City Inspector, Parks Project Manager, and City arborist.

3.2 CONSTRUCTION

A. Contractor shall make every effort to preserve existing trees and shrubs during the course of the project. No materials, equipment, spoils, waste or washout water shall be deposited, stored or parked within the TPZ. Undue compaction of the TPZ and root zones shall be avoided at all times.

1. **ACTIVITIES PROHIBITED WITHIN THE TPZ INCLUDE**:

a. Parking vehicles or equipment, storage of building materials, refuse, or excavated soils, or dumping poisonous material on or around trees, shrubs and roots. Poisonous materials include, but are not limited to paint, petroleum products, concrete, stucco mix, dirty water or any material that may be harmful to plant health

b. The use of tree trunks as a backstop, winch support, anchorage, as a temporary power pole, signpost or other similar function

c. Cutting of tree roots by utility trenching, foundation digging, placement of curbs and trenches, or other miscellaneous excavations without prior approval of the project arborist

d. Soil disturbance or grade change

e. Drainage changes

2. **ACTIVITIES PERMITTED OR REQUIRED WITHIN THE TREE PROTECTIVE ZONE INCLUDE**:

a. Mulch: during construction, wood chips may be spread within the TPZ to a four-to-six-inch depth, leaving the trunk clear of mulch. this will aid in inadvertent soil compaction and moisture loss. Mulch shall be 2-inch unpainted, untreated shredded wood or approved material.

b. Root buffer: when areas under the tree canopy cannot be fenced, a temporary buffer is required and shall cover the root zone and remain in place at the specified thickness until the final grading stage. The protective buffer shall consist of shredded wood chips spread over the roots at a minimum of 6-inches in depth (keeping the trunk clear of chips) and layered by 3/4-inch quarry gravel to stabilize the 3/4-inch plywood sheets laid on top. Steel plates can also be used.

c. Irrigation, aeration, fertilization, mycorrhizae treatments or other beneficial practices that have been specifically approved for use within the TPZ may be accomplished prior to construction with observation by City Arborist.

B. Horizontal directional drilling (HDD) shall be used when installation of utility lines will interfere with tree roots within the area encompassed by a line 10' outside the dripline. If trenching appears to be unavoidable, Contractor shall meet with the City to discuss construction means and methods and receive approval before starting work. Contractor shall avoid laying back trench, so root systems are not impacted and soil is not compacted. An “approved equal” method for utility installation shall be considered.

C. TREE ROOTS

1. Root Severance: No roots shall be cut without approval of City Parks. If roots are approved to be cut, they shall be cut cleanly with a sharp saw to sound wood and flush with the trench side. All ripped and/or torn roots shall be cut clean. Extreme care / caution shall be taken over / around all roots.

2. Excavation: Any approved excavation, demolition, or extraction of material shall be performed with equipment that is placed outside the TPZ. Hand digging is a permitted method for excavation within the TPZ.

3. Heavy Equipment: Use of backhoes, ditch-witches, steel tread tractors or other heavy vehicles within the

TPZ is prohibited unless approved by CITY Parks. if allowed, a protective root buffer is required.

4. **No vehicles may park within the TPZ.**

D. COMPACTION

1. There are three conditions that will require compaction. Refer to Green Book section 301 and / or 306 and Cal Trans 2311 and Standard Plan #1801.

   a. CONDITION 1:

      - Where the underground utilities are installed under pavement (roadway, sidewalk or other existing paved surface), backfill the trench and compact to Standard Plans for Public Works Construction requirements.

   b. CONDITION 2:

      - Where the underground utilities are installed in soil under canopy (drip line) of existing trees, backfill the trench up to 18-inches from finish grade and compact to 90% relative compaction. The top 18-inches shall be left uncompacted to less than 90%, to promote root generation. Generally, wheel rolling with a loader is sufficient. However, Contractor is responsible to repair soil settlement to meet existing grade, and to provide adequate drainage to the area.

   c. CONDITION 3:

      - Where the underground utilities are installed in open landscape areas, outside of tree drip lines, backfill the trench to finish grade, and compact to Standard Public Works Construction requirements. Contractor is responsible to repair soil settlement to meet existing grade, and to provide adequate drainage to the area.

2. Soil Compaction Mitigation: To prevent negligent encroachment into the tree protection zone, trees to be preserved during construction must always have the specified type of protection fences in place. Removal of fences, even temporarily, to allow deliveries or equipment access is not allowed unless approved by City Arborist and a root buffer is installed. The root buffer components: mulch, gravel, and plywood, must be maintained continually to assure its effectiveness against soil compaction.

3. Dust Control: During periods of extended drought, wind or grading, trunks, limbs, and foliage shall spray with water to remove accumulated construction dust, as directed by City Arborist.

E. TREE MAINTENANCE DURING CONSTRUCTION

1. Soil Compaction Mitigation: To prevent negligent encroachment into the tree protection zone, trees to be preserved during construction must always have the specified type of protection fences in place. Removal of fences, even temporarily, to allow deliveries or equipment access is not allowed unless approved by CITY ARBORIST and a root buffer is installed. The root buffer components: mulch, gravel and plywood, must be maintained continually to assure its effectiveness against soil compaction.

2. Dust Control: During periods of extended drought, wind or grading, trunks, limbs and foliage shall spray with water to remove accumulated construction dust, as directed by City Arborist.

F. DAMAGE TO TREES AND SHRUBS

1. Reporting Injury to Trees: Any damage or injury to trees and shrubs shall be reported as soon as possible to the City Inspector, Parks Project Manager, and City arborist. Injuries to roots and branches must be repaired immediately.

2. If a tree or shrub designated to remain is removed or irreversibly damaged as determined by the City Arborist the Contractor may be required to install a replacement tree or shrub matching in size, quality, and variety. If an acceptable replacement tree or shrub is not available, the Contractor may be required to pay damages to City Parks for the value of the damaged plant in accordance with the guidelines set forth in the Guide for Plant Appraisal, 9th edition, using the trunk formula method.

END OF SECTION 32 34 01

SECTION 329000
LANDSCAPE PLANTING

1. GENERAL

1.01 GENERAL

The requirements of the "General Conditions of the Contract" and of Division 1, "General Requirements", shall apply to all work of this Section with the same force and effect as though repeated in full herein.

1.02 SCOPE OF WORK

A. Work Included:

1. Providing and preparing soil and soil mixes.
2. Planting, including, trees, shrubs and sodded lawns.
3. Staking.
4. Tree Preservation.

B. Related Work Described Elsewhere:

1. Irrigation System Section [328800].
2. Tree and Plant Protection [015639].
3. Landscape Finish Grading [314000]

1.03 QUALITY ASSURANCE

A. Source Quality Control:

1. Submit documentation to Landscape Architect at least forty-five (45) days after award of Contract that all plant material is available. Contractor shall be responsible for all material listed on plant list. Any and all substitutions due to availability must be requested in writing prior to confirmation of ordering. All materials shall be subject to inspection by Landscape Architect at any time after confirmation of ordering.
2. Plants shall be subject to inspection and approval of Landscape Architect at place of growth or upon delivery for conformity to specifications. Such approval shall not impair the right of inspection and rejection during progress of the work. Submit written request for inspection of plant material at place of growth to Landscape Architect. Written request shall state the place of growth and quantity of plants to be inspected. Landscape Architect reserves the right to refuse inspection at this time if, in his judgment, a sufficient quantity of plants is not available for inspection.
3. The Contractor shall submit specifications of any item being used on site upon the request of the Landscape Architect.

B. Standards:

1. Provide plants and planting material meeting or exceeding specifications of Federal, State and County laws requiring inspection for plant disease and insect control.
2. Provide quality and size conforming to current edition of "Horticultural Standards" for number one nursery stock as adopted by the American Association of Nurserymen.
3. Provide plants which are true to name. Tag one of each bundle of lot with the name and size of plants in accordance with the standards of practice of the American Association of Nurserymen.
4. In all cases, botanical names shall take precedence over common names.

C. Workmanship:
Perform work in accordance with the best standards of practice for landscape work and under the continual supervision of competent foreman capable of interpreting the drawings and specifications. Quantities and types:
Plant materials shall be furnished in the quantities and / or spacing as shown or noted for each location, and shall be of the species, kinds, sizes, etc., as symbolized and / or described in the "List of Plant Materials," all as indicated on the drawings.

D. Verification of dimensions and quantities:
All scaled dimensions are approximate. Before proceeding with any work, carefully check and verify all dimensions and quantities and immediately inform the Landscape Architect of any discrepancy between the drawings and/or specifications and actual conditions. No work shall be done in any area where there is any such discrepancy until approval for same has been given by the Landscape Architect.

E. Agricultural Soils Testing:

1. An analysis of existing on-site soil, import top soil, and light weight planter soil is required prior to beginning planting work and purchasing the same products or materials.

2. The testing laboratory shall be Wallace Laboratories Inc. 365 Coral Circle, El Segundo, CA 90245, 310•615•0116. Tests shall be paid for by the Owner. The quantity and location of on-site soil samples to be tested shall be determined by the Landscape Architect after rough grading operations are complete.

3. The quantity and location of on-site soil samples to be tested shall be determined by the Landscape Architect. Provide

1.04 JOB CONDITIONS

A. Perform actual planting only when weather and soil conditions are suitable in accordance with locally accepted practice.

1.05 SUBMITTALS

A. Product data:

1. Materials list of items proposed to be provided under this Section.

2. Complete data demonstrating compliance with the specified requirements. This shall not in any way be construed as permitting substitutions.

3. Submit samples of each of the materials listed in Part 2 – 'Products' as determined by the Landscape Architect.

B. Certification:
Provide a certificate with each delivery of bulk material, stating the source, quantity, and type of material and stating that the material conforms with the specified requirements.

1. For bulk delivered organic fertilizer, also show on the certificate of volume, net weight and percentages of nitrogen and phosphorus and potassium.

2. For other fertilizers and soil conditions in containers, show on the certificate the total quantities by weight and volume for each material.

1.06 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Delivery:

1. Deliver fertilizer to site in original unopened containers bearing manufacturer's guaranteed chemical analysis, name, trademark, and conformance to State Law.

2. The Contractor shall furnish Landscape Architect with copies of receipts for all amendments specified in Section 2.01 Materials or amended by the required Soils Report specified in Section 1.03 F.

3. Deliver all plants with legible identification labels.
    a. Label trees, evergreens, bundles or containers of like shrubs, or groundcover plants.

B. State correct plant name and size indicated on plant list.
    a. Use durable waterproof labels with water-resistant ink which will remain legible for at least 60 days.
    b. Immediately remove from the job site all plants which are not true to name, and all materials which do not comply with the specified requirements.
2. Protect plant material during delivery to prevent damage to root ball or desiccation of leaves.
3. The Contractor shall notify the Landscape Architect seven (7) days in advance of delivery of all plant materials and shall submit an itemized list of the plant in each delivery.

C. Storage:
1. Store plant material in shade and protect from weather.
2. Maintain and protect plant material not to be planted within four (4) hours in a healthy, vigorous condition.

D. Handling:
The Contractor is cautioned to exercise care in handling, loading, unloading and storing of plant materials. Plant materials that have been damaged in any way will be discarded and, if installed, shall be replaced with undamaged materials.

1.02 SAMPLES AND TESTS

Landscape Architect reserves the right to take and analyze samples of materials for conformity to specifications at any time. Contractor shall furnish samples upon request by Landscape Architect. Rejected materials shall be immediately removed from the site at Contractor's expense. Cost of testing of materials not meeting specifications shall be paid for by Contractor.

1.03 GUARANTEE AND REPLACEMENT

Submit a written guarantee in approved form in compliance with the related requirements of General Conditions guaranteeing the work of this section against any defective materials and workmanship in compliance with the following terms, agreeing to replace any defective materials and/or workmanship at no additional cost to the owner.

A. Trees shall be guaranteed for a period of one year and shrubs, vines and ground cover for a period of six months after final approval and acceptance of the project.

B. Any plant material which dies or which is not healthy or vigorous when it has received normal care and maintenance shall be replaced within or at the end of the guarantee period and as specified in the Landscape Maintenance Specifications.

C. Any trees or other plant materials that die-back and lose the form and size as originally specified, shall be replaced even though they have taken root and are growing after the die-back.

D. The Contractor, when notified by the Landscape Architect, shall remove and replace all guaranteed plant materials which for any reason fail to meet the requirements of the guarantee. Replacement of material and plants shall be made to same specifications as required for original planting. All replacements shall be guaranteed as specified for original materials from the actual date of the planting of replacement material.

1.04 EXISTING TREES 'TO BE PROTECTED IN PLACE'

A. When the site is ready for clearing, existing trees designated as 'to remain' shall be protected from land clearing equipment and construction work. Barricades shall be erected around the tree to protect the entire dripline (an imaginary perpendicular line that extends downward from the outer-most tip of the tree branches to the ground) of the tree.

1.10 ROOT BARRIER REQUIREMENT

A. All trees within 8' (eight feet) of any paving curbs, or bands (except for trees in tree grates) shall be installed with linear root barriers. Root barrier products for trees within 8' (eight feet) of any sidewalks, curbs, gutters, and paving governed by or under the jurisdiction of the City, shall be that specified and approved by the City and shall be installed in accordance with the City's standards and the manufacturers specifications, recommendations, and details.

1.11 TREE PLACEMENT AND LOCATION REQUIREMENTS

A. Trees shall be located not less than:

1. Twenty (20) feet back of beginning of curb returns at any street intersection.
2. Twenty (20) feet from lamp standards and power poles.
3. Ten (10) feet from fire hydrants.
4. Five (5) feet from service walks and driveways.
5. Five (5) feet from water meters.

2. PRODUCTS

2.01 Materials

A. The following organic, soil amendments and fertilizers are to be used for bid price basis only. Specified amendments and fertilizer specifications will be made after grading operations are complete and soil samples are tested through an agronomy laboratory, see Section 1.03F.

B. All materials shall be of standard, approved and first-grade quality and shall be in prime condition when installed and accepted. Any commercially processed or packaged material shall be delivered to the site in the original unopened container bearing the manufacturer's guaranteed analysis. Contractor shall supply Landscape Architect with a sample of all supplied materials accompanied by analytical data from an approved laboratory source illustrating compliance or bearing the manufacturer's guaranteed analysis:

C. Organic Amendment:
Earthworks Soil Amendments, Inc. 'Planting Mix', 310•802•8842 or equal.

1. Planting Mix
EarthWorks Planting Mix is pre-moistened blend of carefully selected organic compost, aged forest products, premium peat moss, pumice and chicken manure which is formulated for all landscape planting applications.

D. Soil Amendment:

1. Soil Sulfur: Agricultural grade sulfur containing a minimum of 99% sulfur (expressed as elemental).
2. Iron Sulfate: 20% Iron (expressed as metallic iron), derived from ferric and ferrous sulphate, 10% sulfur (expressed as elemental).
3. Calcium Carbonate: 95% lime as derived from oyster shells.
4. Gypsum: Agricultural grade product containing 98% minimum calcium sulphate.

Amendment: Establish 'by Earthworks Soil Amendment Inc., 310•802•8842.
Earthworks Establish is designated to be used as a pre-plant soil amendment and contains both soluble and insoluble nutrients for immediate and long term fertilization as follows:
Analysis: 1-1.3-6.3
1% Total Nitrogen
1.3% Available Phosphoric Acid
6.3% Soluble Potash
16% Calcium
1.5% Sulfur
.75% Iron

.06% Manganese
Derived from: Rock Phosphate, composted chicken manure, sulfate of potash, gypsum, worm castings and dairy manure compost.

E. Fertilizer:

1. Planting Fertilizer: Granular form fertilizer consiting of the following percents by weight by Earthworks
   7% nitrogen
   1% phosphoric acid
   7% potash

2. Gro-Power Planter Pot Fertilizer: Shall be Gro-Powers' controlled release fertilizer and soil conditioner or equal in the following percents by weight.
   12% nitrogen
   8% phosphoric acid
   8% potash
   25% humus
   5% humic acid

3. Planting Tablets:

   a. Each tablet shall have 17 species of Endo & Ecto Mycorrizal Inoculum

   b. Shall be Tri-C Myco Tabs (17-9-5) tablets as manufactured by Tri- C Natural Solutions or approved equal, applied per manufacturer's instructions.

4. Pre-Sod Fertilizer: Shall consist of the following percentage by weight and shall be mixed by a commercial fertilizer supplier:
   16% hydrogen
   20% phosphoric acid
   8% potash

5. Sulphate of potash: 0-0-50

6. Single Super-Phosphate: Commercial product containing 18-20% available Phosphoric Pentoxide, or equal.

7. Urea Formaldehyde: 38-0-0

8. Humate plus conditioner by Tri-C Enterprises, 800•927•3311.

F. Import Top Soil:
Silt plus clay content of the import soil shall not exceed 20% by weight with a minimum 95% passing the 2.0 millimeter sieve. The sodium absorption ratio (SAR) shall not exceed 6 and the electrical conductivity (ECe) of the saturation extract of this soil shall not exceed 3.0 millimhos per centimeter at 25 degrees centigrade. The boron content shall be no greater than 1 part per million as measured on the saturation extract. In order to ensure conformance, samples of the import soil shall be submitted to the agricultural soils testing laboratory (see section 1.03F) for analysis prior to, and following, backfilling. Do not obtain top soil form areas in which are growing noxious weeds such as morning glory oxalis Bermuda or nut grasses. Soil shall be free of deleterious and / or harmful substances and properties.

4. Nursery Grown and Collected Stock:

   a. Grown under climatic conditions similar to those in locality of project.

   b. Container-grown stock in vigorous, healthy condition, not root-bound or with root system hardened off.

   c. Use only liner stock plant material which is well established in removable containers or formed homogenous soil section.

5. Substitute plant material will not be permitted unless specifically approved in writing by the Landscape Architect.

6. Sod:
   Shall be Marathon II by Southland Sod Farms and shall be well established, disease-free, and weed-free sod in a healthy vigorous condition.

F. Guying and Staking Materials:

1. Wood tree stakes:
   Lodge pole pine, full treated with Coppernapthanate Wood Preservative in strict accordance with Federal Spec. TT-W-572 Type 1 Composition B, 2" (mm. nominal size) diameter x 10' long, no split stakes. Stakes are to be free of loose knots or bends and are to be pointed at one end.

2. Pipe Tree Stakes:
   Sch. 40 steel pipe, 1-1/2" diameter with cap, primed and painted before installation with two coats flat black exterior enamel. Touch up in field to match shop condition.

3. Ties:

   a. V.I.T. Products 'Twist brace', 800•729•1314
      TB-24 for 15 Gallon Trees
      TB-36 for 24" Box Trees
      TB-42 for 36" Box Trees

   b. Attach to Lodgepoles using galvanized nails.

5. Steel Guy Anchor:
   V.I.T. 'Rapid Type Anchor' with installation in accordance with manufacturer's specifications and recommendations.

6. Guying Hardware:
   (a) Wire: 1/8" galvanized, (b) Hose: 1/2" new rubber hose, (c) U-Bolt Cable clamps: galvanized, size as required, (e) Safety Sleeve: 1/2" white P.V.C. full length of wire.

G. Tree Paint: Morrison Tree Seal, Cabort Tree paint, or equal.

H. Water: Furnished by Owner; transport as required.

I. Mulch:

1. 'Forest Floor 0-4"' as supplied by Aguinaga Fertilizer, 949•786•9558 or equal.

2. The mulch shall consist of a woody bark material 2 inches or less in size.

F. Plant Material:

Plants shall be in accordance with the California State department of Agriculture's regulation for nursery inspections, rules and rating. All plant materials shall have been inspected and released by the County Agricultural inspector prior to delivery on the job. All plants shall have a normal habit of growth and shall be sound, healthy, vigorous and free of insect infestations, plant diseases, sunscalds, fresh abrasions of the bark, excessive abrasions, or other objectionable disfigurements. Tree trunks shall be sturdy and have well "hardened" systems and vigorous and fibrous root systems which are not root or pot-bound.

In the event of disagreement as to condition of root system, the root conditions of the plants furnished by the Contractor in containers will be determined by removal of earth from the roots of not less than two plants or more than two percent of the total number of plants of each species or variety. Where container-grown plants are from several sources, the roots of not less than two plants of each species or

1. variety from each source will be inspected. In case the sample plants inspected are found to be defective, the Landscape Architect reserves the right to reject the entire lot or lots of plants represented by the defective samples. The Landscape Architect is the sole judge as to acceptability. Any plants rendered unsuitable for planting because of this inspection will be considered as samples and will be provided at the expense of the Contractor.

2. The size of the plants will correspond with that normally expected for species and variety of commercially available nursery stock or as specified on drawings. The minimum acceptable size of all plants measured before pruning with the branches in normal position, shall conform with the measurements, if any, specified on the drawings in the list of plants to be furnished. Plants larger in size than specified may be used with the approval of the Landscape Architect, but the use of larger plants will make no change in Contract price. If the use of larger plants is approved, the ball of earth or spread of roots for each plant will be increased proportionately.

3. All plants not conforming to the requirements herein specified, shall be considered defective and such plants, whether in place or not, shall be marked as rejected and immediately removed from the site of the work and replaced with new plants at the Contractor's expense. The plants shall be of the species, variety, size and conditions specified herein or as shown on the drawings. Under no conditions will there be any substitutions of plants or sizes listed on the accompanying plans, except with the express consent of the Landscape Architect.

4. Pruning:
   At no time shall trees, (excluding palm trees) or plant materials be pruned, trimmed or topped prior to delivery and any alteration of their shape shall be conducted only with the approval and when in the presence of the Landscape Architect.

5. Plant Material:
   Plant material shall be true to botanical and common name and variety as specified in the latest edition of the "Annotated Checklist of Woody Ornamental Plants in California, Oregon and Washington", published by the University of California School of Agriculture.

4. Nursery Grown and Collected Stock:

   a. Grown under climatic conditions similar to those in locality of project.

   b. Container-grown stock in vigorous, healthy condition, not root-bound or with root system hardened off.

   c. Use only liner stock plant material which is well established in removable containers or formed homogenous soil section.

5. Substitute plant material will not be permitted unless specifically approved in writing by the Landscape Architect.

6. Sod:
   Shall be Marathon II by Southland Sod Farms and shall be well established, disease-free, and weed-free sod in a healthy vigorous condition.

G. Guying and Staking Materials:

1. Wood tree stakes:
   Lodge pole pine, full treated with Coppernapthanate Wood Preservative in strict accordance with Federal Spec. TT-W-572 Type 1 Composition B, 2" (mm. nominal size) diameter x 10' long, no split stakes. Stakes are to be free of loose knots or bends and are to be pointed at one end.

2. Pipe Tree Stakes:
   Sch. 40 steel pipe, 1-1/2" diameter with cap, primed and painted before installation with two coats flat black exterior enamel. Touch up in field to match shop condition.

3. Ties:

   a. V.I.T. Products 'Twist brace', 800•729•1314
      TB-24 for 15 Gallon Trees
      TB-36 for 24" Box Trees
      TB-42 for 36" Box Trees

   b. Attach to Lodgepoles using galvanized nails.

4. Steel Guy Anchor:
   V.I.T. 'Rapid Type Anchor' with installation in accordance with manufacturer's specifications and recommendations.

5. Guying Hardware:
   (a) Wire: 1/8" galvanized, (b) Hose: 1/2" new rubber hose, (c) U-Bolt Cable clamps: galvanized, size as required, (e) Safety Sleeve: 1/2" white P.V.C. full length of wire.

H. Tree Paint: Morrison Tree Seal, Cabort Tree paint, or equal.

I. Water: Furnished by Owner; transport as required.

J. Mulch:

4. 'Forest Floor 0-4"' as supplied by Aguinaga Fertilizer, 949•786•9558 or equal.

5. The mulch shall consist of a woody bark material 2 inches or less in size.

6. Compact grades adjacent to edging to avoid settling.

K. Tree transplant stimulant"

4. 'Super-Thrive' by Vitamin Institute

3. EXECUTION

3.01 SURFACE CONDTIONS AND PROTECTION OF PROPERTY

A. Prior to excavation for planting or placing of stakes, locate all electric cables and conduits, storm and sanitary sewer lines and all other utility lines so that proper precautions may be taken not to damage such improvements. In the event of a conflict between lines and plant locations, promptly notify the Landscape Architect. Failure to follow this procedure places upon the Contractor the responsibility to repair damages at his own expense which result from work hereunder.

3.02 INSPECTION

A. Obtain City certification that final grades to +0.10' have been established prior to commencing planting operations. Provide for inclusion of all amendments, settling, etc. Landscape Contractor shall be responsible for shaping all planting areas as indicated on plans or as directed by the Landscape Architect.

B. Inspect trees, shrubs and liner stock plant material for injury, insect infestation and trees and shrubs for improper pruning.

C. Do not begin planting of trees until deficiencies are corrected or plants replaced.

3.03 PREPARATION

A. Soil Preparation:

1. After rough grading operations have ceased and finished grades have been established to within .10', the soil shall be conditioned and fertilized in the following manner. Amendments shall be uniformly spread and cultivated thoroughly by means of mechanical tiller into the top 4" of soil. The following organic, soil amendments and fertilizer rates, and quantities are to be used for bid basis only. Specific planting specifications will be made after rough grading operations are complete and soil samples are tested by the Owner per section 1.03F.

   Application Rates (Per 1,000 square feet)
   Refer to Drawings

3.04 PLANTING INSTALLATION

A. General:

1. Actual planting shall be performed during those periods when weather and soil conditions are suitable and in accordance with locally accepted practice, as approved by the Architect.

2. Only as many plants as can be planted and watered on that same day shall be distributed in a planting area.

3. Containers shall be opened and plants shall be removed in such a manner that the ball of earth surrounding the roots is not broken and they shall be planted and watered as herein specified immediately after removal from the containers. Containers shall not be opened prior to placing the plants in the planting area.

4. Plant locations shown on the Drawings are tentative and subject to minor modification in the field as directed by the Landscape Architect. Make such modifications of location at no additional cost to the Owner.

B. Pre-Plant Weed Control:

1. If live perennial weeds exist on site at the beginning of work, spray with a non-selective systemic contact herbicide, as recommended and applied by an approved licensed landscape pest control advisor and applicator. Leave sprayed plants intact for at least fifteen (15) days to allow systemic kill.

2. Clear and remove these existing weeds by mowing or grubbing off all plant parts at least 1/4" below the surface of the soil over the entire area to be planted.

3. After irrigation system is operational apply water for five (5) to ten (10) days as needed, to achieve weed germination. Apply contact herbicides and wait as needed before planting. Repeat, if required by Architect.

4. Maintain site weed free until final acceptance by Owner utilizing mechanical and chemical treatment.

C. Lay-Out of Major Locations:

1. Locations for plants and outlines of areas to be planted shall be marked on the ground by the Contractor before any plant pits are dug. All such locations shall be approved by the Landscape Architect. If underground construction or utility line is encountered in the excavation of planter pits, other locations for planting may be selected by the Landscape Architect. Layout shall be accomplished with flagged grade stakes indicating plant names and specified container size on each stake. It shall be the contractor's responsibility to confirm with the City Representative and governing agencies the location and depth of all underground utilities, and obstructions.

D. Planting of Trees and Shrubs:

1. Excavation for planting shall include the stripping and stacking of all acceptable topsoil encountered within the areas to be excavated for trenches, tree holes, plant pits and planting beds.

2. Excess soil generated from the planting holes and not used as backfill or in establishing the final grades shall be removed from the site.

3. Protect all areas from excessive compaction when trucking plants or other material to the planting site.

4. Center plant in pit or trench.

5. Face plants with fullest growth into prevailing wind.

6. Set plant plumb and hold rigidly in position until soil has been tamped firmly around ball or roots.

7. The planting pits for 24" box and larger Containers should be excavated twice the diameter and two feet deeper than the rootball with roughed-in sides. No prepared backfill mix shall be placed under rootball. In addition, for trees not planted in tree grates, install a flexible 4" corrugated, perforated drain pipe with soil fabric sock surrounding base of plant pit. Provide a snap tee connection and riser extension to finish grade and install a snap end cap. As determined in field, if percolation rate is less than 2" / hr. additional 6" diameter auger holes at diagonal corners of plant pit shall be made to the depth of 4' below rootball and filled with 3/4" crushed rock and covered with filter fabric.

8. Container plants shall be backfi1led with a thoroughly mixed blend of the following:
amended site soil (refer to Drawings).

9. All plants which settle deeper than the surrounding grade shall be raised to the correct level. After the plant has been placed, additional backfill shall be added to the hole to cover approximately one-half of the height of the root ball. At this stage, water shall be added to the top of the partly filled hole to thoroughly saturate the root ball and adjacent soil.
10. Can Removal:
    a. Cut cans on two sides with an acceptable can cutter.
    b. Do not injure root ball.
    c. Do not cut cans with spade or ax.
    d. After removing plant, superficially cut edge roots with knife on three sides.
11. Box Removal:
    a. Remove bottom of plant boxes before planting.
    b. Remove sides of box without damage to root ball after positioning plant and partially backfilling.
12. Plant Tablets:
    a. After the water has completely drained, planting tablets shall be placed in the tree and shrub plant pits, no more than 1/3 the way up the rootball and spaced equally around the perimeter approximately 2” from root tips, as indicated below:
    Refer to Drawings
    b. Planting tablets shall be set with each plant on the top of the root ball while the plants are still in their containers so the required number of tablets to be used can be easily verified by the Landscape Architect.
13. Backfill:
    a. The remainder of the hole shall then be backfilled and tamped firm.
    b. After backfilling, an earthen basin shall be constructed around each plant. Each basin shall be of a depth sufficient to hold at least two (2) inches of water. The basins shall be constructed of amended backfill materials. Remove basin in all turf areas after initial watering
    c. Make basin berms for trees and shrubs and from 5 gallon and larger containers at least 4" high. Unless otherwise directed, make other mounds at least 2" high.
    d. On slopes, construct half-mounds on the lower side if full mounds are not practical.
    e. After watering, refill settlement within the basins to the required grade, using the specified mix.
    f. Watering basins shall be planted with ground cover in normal pattern.
14. Watering:
    Immediately after planting, apply water to each tree, vine and shrub in a moderate hose stream in the planting basins, until the material about the roots is completely saturated from the bottom to the top:
    a. Provide thorough watering of ground cover by means of the irrigation system within one hour after ground cover planting.
    b. Apply water in such quantities, and at such intervals, as are required to keep the ground moist at all times well below the root system of grass and other planting.
    c. Provide hose watering for plants which cannot be efficiently watered with the irrigation system.
15. Pruning:
    a. Pruning shall be limited to the minimum necessary to remove injured twigs and branches. Pruning may not be done prior to delivery of plants. Cuts over 3/4" in diameter shall be painted with tree paint.

16. Staking and Guying:
    Staking of all trees shall be completed immediately after planting and in accordance with the planting details. All stakes shall be installed plumb and as indicated in details. Guying of any or all of the transplanted Pine Trees shall be at the discretion of the Landscape Architect after on-site review of site and planting conditions.

E. Sod Planting:

1. Install sod within 24 hours after its delivery to the job site.
2. Preparing Soil:
   Remove rocks, weeds, debris from area to be sodded. Work up soil to a depth of 6 inches, and break up all clods. Soil prep all areas as noted elsewhere in specifications and Section 3.03
3. Grading and Rolling:
   Carefully smooth all surfaces to be sodded. Roll area to expose soil depressions or surface irregularities. Regrade as required.
4. Turn on irrigation system to moisten soil prior to laying
5. Fertilizing:
   Spread Turf Fertilizer (12-0-0) onto the soil evenly at the rate of 5 pounds per 1000 square feet of lawn area. Rake in lightly. Be sure soil is level and smooth before laying sod. Do not lay sod on dry soil.
6. Laying Sod:
   Lay first strip of sod slabs along a straight line (use a string in irregular areas). Butt joints tightly, do not overlap edges. On second strip, stagger joints much as in laying bricks. Use a sharp knife to cut sod to fit curves, edges, sprinkler heads.
7. Watering:
   Do not lay whole lawn before watering. When a conveniently large area has been sodded, water lightly preventing drying. Continue to 1ay sod, and to water until installation is complete.
8. Rolling Sod:
   After laying all sod, roll lightly eliminate irregularities and to form good contact between sod and soil. Avoid a very heavy roller or excessive initial watering which may roller marks.
9. Irrigation:
   Water thoroughly the completed lawn surface. Soil should be moistened at least 8 inches deep. Repeat sprinkling at regular intervals to keep sod moist at all times until rooted.

   After sod is established, decrease frequency and increase amount of water per application as necessary.
10. Replacement:
    Where sodded areas do not show a prompt and obvious indication of viability, re-sod as originally specified at ten day intervals until an acceptable stand of grass is established. Replace all dead or dying sod with equal material as directed by Landscape Architect.

F. Pot Planting:

1. Place all plants as specified and as located on plans.
2. Backfill pot to within 1” of rim with a thoroughly mixed custom blend of the following or an approved commercially mixed planter pot soil mix.
   1 part by volume washed Silica sand
   1 part by volume Organic Amendment (Section 2.01C)
   10 lbs 12-8-8 fertilizer per cubic yard of custom mix or approved commercially mixed planter pot soil mix (if fertilizer is not already incorporated into the commercial mix).

G. Mulch Cover:
   All groundcover, perennial, and annual beds to be dressed with 2” layer of mulch.

3.05 CLEAN-UP

A. After all planting operations have been completed, remove all trash, excess soil, empty plant containers and rubbish from the property. All scars, ruts or other marks in the ground caused by this work shall be repaired and the ground left in a neat and orderly condition throughout the site. Contractor shall pick up all trash resulting from this work no less frequently than each Friday before leaving the site, once a week, and/or the last working day of each week. All trash shall be removed completely from the site.

B. The Contractor shall leave the site area broom-clean and shall wash down all paved areas within the scope of work area, leaving the premises in a clean condition. All walks shall be left in a clean and safe condition.

3.06 OBSERVATION SCHEDULE

A. The Contractor shall be responsible for notifying the Landscape Architect in advance for the following site visits, according to the time

1. Pre-job conference - 7 days
2. Final grade review - 48 hours
3. Plant material review - 48 hours
4. Plant layout review - 48 hours
5. Soil preparation and planting operations. One tree with each type of specified staking shall be approved prior to planting of trees - 48 hours.
6. Pre-maintenance - 7 days
7. Final walk-through - 7 days

B. When observations are conducted by someone other than the Landscape Architect, the Contractor shall show evidence in writing of when and by whom these inspections were made.

C. No site visits shall commence without all items noted in previous Observation Reports are either completed or remedied, unless such compliance has been waived by the Owner. Failure to accomplish punch list tasks or prepare adequately for desired inspections shall make the Contractor responsible for reimbursing the Architect at his current billing rates per hour (plus transportation costs). No further inspections shall be scheduled until this fee has been paid and received.

SECTION 334000
DRAINAGE AND SEWER PIPING

1. GENERAL
   1.01 GENERAL CONDITIONS
      A. The general conditions, supplementary conditions are hereby made a part of this section.

   1.02 DESCRIPTION
      A. Work Included:
         Furnish all labor, materials, equipment, appliances and necessary incidentals for the complete installation of all Sewer and Drainage piping and devices as shown on the Drawings and / or as specified herein.
         1. 6" PVC Sewer Line
         2. Sewer Cleanout
         3. 4" Sewer Line
         4. 3" Channel Drain
         5. 4" Drain Pipe
         6. 6" Drain Pipe
         7. 8" Drain pipe
         8. 12" Drain Pipe
         9. Pop-up Drain Emitter
         10. Perforated Drain Pie System
         11. 6" Sewer Lateral Per City of Fullerton Std. Plan 310

      B. Related Work In Other Sections:
         1. Irrigation [328800].
         2. Landscape Planting [329000].
         3. Tree and Plant Protection [015639]

   1.03 SUBMITTALS
      A. Comply with City Submittal Procedures
      B. Product Data: Submit manufacturer's product data, including installation instructions.
      C. Shop Drawings: Submit manufacturer's shop drawings, indicating materials, components, and dimensions.
      D. Warranty: Submit manufacturer's standard warranty.

   1.04 DELIVERY, STORAGE, AND HANDLING
      A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
      B. Storage: Store materials in clean, dry area in accordance with manufacturer's instructions.
      C. Handling: Protect materials during handling and installation to prevent damage.

   1.05 PRODUCTS
      A. Manufacturers:
         1. NDS, Inc., 851 North Harvard Avenue, PO Box 339, Lindsay, California 93247. Toll Free (800) 726-1994. Toll Free Fax (800) 726-1998. Phone (559) 562-9888. Fax (559) 562-4488. Website www.ndspro.com.
         2. ADS (Advanced Drainage Systems)
         3. JM Eagle
         4. Pacific Plastics
         5. As approved by City

      B. Polyvinyl Chloride Pipe

1. Pipe and fittings: polyvinyl chloride sewer pipe, four inch through fifteen-inch diameter, conforming to ASTM D3034, SDR 35 or ASTM F1760, SDR 35 with 25 percent minimum recycled post-industrial plastic.
2. Gasketed Joints: Elastomeric gasket joints conforming to ASTM D3212.
3. Gaskets: Chloroprene conforming to ASTM F477

EXECUTION

3.01 GENERAL

A. Inspection:

1. Examine areas to receive catch basins, piping, cleanouts. Notify Inspector if areas are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

B. Discrepancies:

1. In the event of discrepancy, the contractor shall immediately notify the City.
2. Do not proceed with the installation in these areas of discrepancy until all such discrepancies have been fully resolved.

3.02 INSTALLATION

A. Install catch basins, drain piping, sewer lines, cleanouts in accordance with manufacturer's instructions, Plans and City standards at locations indicated on the drawings.

END OF SECTION 33 40 00

APPENDIX

ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING
JN 530

GEOTECHNICAL INVESTIGATION/
SOILS REPORT

PETRA GEOSCIENCES INC.

SOLID AS A ROCK

ENGINEERS + GEOLOGISTS + ENVIRONMENTAL SCIENTISTS

GEOTECHNICAL INVESTIGATION FOR PROPOSED NEW LIGHT STANDARDS, BASKETBALL BACKBOARD POLES, AND LIMITED PERCOLATION TESTING ROWLEY PARK, CITY OF GARDENA, CALIFORNIA

BGB DESIGN GROUP

September 26, 2023
J.N. 23-161-PW

September 26, 2023
J.N. 23-161-PW

BGB DESIGN GROUP
3185-C1 Airway Avenue
Costa Mesa, California 92626

Attention: Mr. Arthur Guy

Subject: Geotechnical Investigation for Proposed New Light Standards, Basketball Backboard Poles, and Limited Percolation Testing; Rowley Park, City of Gardena, California

Dear Mr. Guy:

Petra Geosciences, Inc. (Petra) is submitting herewith our geotechnical investigation report for the proposed light standards, basketball posts and limited percolation tests for Rowley Park located to the southeast of the intersection at Van Ness Avenue and 132nd Street in the city of Gardena, California. Our services were performed in accordance with the scope of services outlined in our Subconsultant Agreement with BGB Design Group, dated March 30, 2023. This report presents the results of Petra's field investigation and laboratory testing and provides grading and foundation design recommendations based on the current 2022 California Building Code (CBC) requirements.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding the contents of this report or require additional information, please contact us.

Respectfully submitted,

PETRA GEOSCIENCES, INC.

Evan Price
Senior Associate Geologist

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GEOTECHNICAL INVESTIGATION FOR
PROPOSED NEW LIGHT STANDARDS, BASKETBALL BACKBOARD POLES,
AND LIMITED PERCOLATION TESTING
ROWLEY PARK, CITY OF GARDENA, CALIFORNIA

INTRODUCTION

Petra Geosciences, Inc. (Petra) is submitting herewith the results of our geotechnical investigation for the proposed new light standards, basketball posts, concrete flatwork, and limited percolation testing. The purposes of this investigation were to determine the nature of surface and subsurface soils, to evaluate their in-place characteristics, and to provide geotechnical recommendations with respect to site clearing and grading, and for the design and construction of other improvements.

SITE LOCATION AND DESCRIPTION

The subject site consists of an approximate 2.5-acre section in the northwest corner of Rowley Park. The site currently consists of several concrete basketball courts, a concrete skatepark, children's play equipment, several concrete walkways, grass landscaping, and several rows of trees. The site is bounded on the west by Van Ness Avenue, on the north by 132nd Street, and on the east and south by the larger portions of Rowley Park consisting of parking areas, athletic fields, and open landscape. Along the southern boundary of the subject site lies a community center as well as a sports gymnasium. A small steel shade structure lies adjacent to the gymnasium.

PROPOSED CONSTRUCTION AND GRADING

Proposed Construction

Although detailed site plans have not been provided at this time, based on preliminary project discussions, it is our understanding that the existing park will remain relatively intact with several site improvements. The site improvements are likely to include new light structures, basketball backboard poles, and an improved drainage/infiltration system.

SITE RECONNAISSANCE AND SUBSURFACE EXPLORATION

Our firm performed a site reconnaissance and subsurface exploration on June 15, 2023. Our site reconnaissance consisted of the visual evaluation of the existing surface conditions. Existing surface conditions within the site that were observed during our site reconnaissance are described in the "Site Location and Description" section of this report.

Our subsurface exploration of the subject site consisted of the drilling of four hand-auger exploratory borings to depths ranging from approximately 7.5 to 11 feet below the existing ground surface. Soil materials encountered were visually classified and logged in general accordance with the Unified Soil

Classification System and the Engineering Geology Field Manual by the U.S. Department of the Interior, Bureau of Reclamation, respectively. The approximate locations of the borings are depicted on Figure 2 and descriptive exploration logs are presented in Appendix A.

Associated with the subsurface exploration was the collection of bulk and relatively undisturbed samples of the soil materials for laboratory testing. The relatively undisturbed samples were obtained using a 3-inch, outside diameter, modified California split-spoon soil sampler lined with 1-inch high brass ring liners that were driven into the ground by repetitive drops of a hand operated drop hammer. The central portion of the driven core samples were placed in sealed containers and transported to our laboratory for testing.

LABORATORY TESTING

To evaluate the engineering properties of site soils, several laboratory tests were performed on selected samples considered representative of the near surface soils encountered during our investigation. Laboratory tests included the determination of maximum dry density and optimum moisture content, expansion index, Atterberg analysis, soluble sulfate and chloride content, pH and minimum resistivity, and direct shear analysis. In-place moisture content and unit dry density were also determined for select samples of the soil samples retrieved. A description of laboratory test procedures and summaries of the test data are presented in Appendix B and in our exploration logs (Appendix A). An evaluation of the test data is reflected throughout the "Conclusions and Recommendations" section of this report.

Regional Geology

The subject site is located at the western end of the Los Angeles Basin, a northwest trending, alluviated lowland situated at the north end of the Peninsular Ranges geomorphic province of coastal southern California. This basin, which is the surface expression of a deep structural trough, has been subdivided into four primary structural blocks distinguished from one another by contrasting basement rock types and stratigraphy. These structural blocks are generally separated by zones of faulting along which movement has been occurring intermittently since middle Miocene time (Yerkes and others, 1965). The site is located on the southwest side of the Central Block of the Los Angeles Basin, a wedge-shaped area that extends from the Santa Monica Mountains at its northwest end to the San Joaquin Hills at its southeast end.

Local Geology and Subsurface Soil Conditions

Undocumented artificial fill was generally observed to a total depth of approximately 2 to 2.5-feet below the existing surface. Deeper fill was noted in our boring P-1 to a depth of 5 feet, which appeared to be an area where a tree root ball was previously removed and backfilled. Artificial fill (af) consisted of clay and

silty sand. These soils were typically moist, loose or soft, and dark brown in color. Native soils classified as young alluvium deposits (Qya) were observed underlying the artificial fill to the maximum depth explored (11 feet). The alluvium was characterized primarily as interbedded layers of silty sand, silty sandy clay, clayey sand and clay. The alluvium was typically moist, firm or medium-dense, and gray, brown, and light-brown in color.

Groundwater

Groundwater was not encountered in our borings to a depth of 11 feet below the ground surface. Based on the Seismic Hazard Zone Report for the area, the historical high groundwater depth would be on the order of 30 feet (CDMG 1998). However, a review of Geotracker for nearby monitoring wells indicated that recent groundwater monitoring wells at a site located approximately 0.4 miles southeast of the site had groundwater readings ranging from 33.6 to 34.7 feet below ground surface (elevations of 27.3 to 27.1 feet msl) in March, 2023 (EnviroHealth Solutions, LLC, 2023).

Seismic Hazard Zones

Review of the Seismic Hazard Zone map for the Inglewood Quadrangle produced by the State of California indicated the site is not located within areas subject to required investigation for Liquefaction or landslide potential (CDMG 1998).

Seismically-Induced Flooding

The types of seismically induced flooding which may be considered as potential hazards to a particular site normally includes flooding due to a tsunami (seismic sea wave), a seiche, or failure of a major reservoir or other water retention structure upstream of the site. Since the site lies approximately 9.7 kilometers inland from the Pacific Ocean shoreline at an average elevation of approximately 50 feet above sea level and does not lie in close proximity to an enclosed body of water or downstream of a major reservoir or other retention structure, the probability of flooding from a tsunami, or seiche is considered to be negligible. The site is not located within a designated tsunami inundation area as identified on the tsunami inundation maps published by the California Emergency Management Agency (CEMA, 2009).

Percolation Testing and Results

A pilot, falling head percolation test was completed as part of this investigation within Boring P-1 location. Boring P-1 is located in an area in the northeastern portion of the site. The tested depth ranged from approximately 8 to 11 feet below ground surface. The approximate location of the pilot percolation test can be found on Figure 2, while the exploration log can be found in Appendix A and the results found in

Appendix C. A testing depth of 8 to 11 feet was chosen based on preliminary talks with the project civil engineers and, further, based on the materials encountered during our subsurface investigation.

Percolation test to evaluate site infiltration rate was performed in conformance with the Los Angeles County Public Works Guidelines for Geotechnical Investigation and Reporting Low Impact Development Stormwater Infiltration, dated June 2021 (LACPW, 2021).

More specifically, the falling-head percolation test data were utilized in determining the test infiltration rate, I_t, expressed in units of inches/hour. Following a presoaking period, field testing was conducted in a perforated-cased borehole (with ¾-inch gravel surrounding the pipe) at 30-minute intervals for a period of approximately 4 hour. Test data are attached in Appendix C. The infiltration rate, I_t, was calculated by determining the volumetric water flow rate through the wetted borehole surface area, expressed in terms of inches per hour. The Un-factored test results are summarized in the following table, Table 1.

TABLE 1

Uncorrected Falling Head Infiltration Test Results

Test No.	Borehole Total Depth (feet)	Approximate Test Zone (feet below existing grade)	Geologic Unit / Soil Description	Infiltration Test Rate, I_t (in./hr.)
P-1	11	8-11	Qal (SC)	0.33

This un-factored infiltration rate is greater than the minimum threshold of 0.3 inches/hour. Therefore, site soils are considered acceptable and would be satisfactory for use with a storm water infiltration system.

The test data indicates the alluvial deposits between 8 to 11-feet below existing site grades are considered permeable. Therefore, site soils are considered acceptable and would be satisfactory for use with a storm water infiltration system.

Reduction Factor

Based on the Reduction Factor Worksheet presented within the Los Angeles County Public Works Guidelines for Geotechnical Investigation and Reporting Low Impact Development Stormwater Infiltration, dated June 2021, a Total Reduction Factor of 7 should be considered to the values of Infiltration Rate provided above. Applying the Total Reduction Factor to the above infiltration test result produces a Design Infiltration Rate of **0.05 in/hr.**

Construction Procedure

The infiltration rates provided herein are considered representative of the native soils in the vicinity of the percolation test location. Care should be taken to minimize disturbance of the exposed bottom surface of the basins as fill placement or any compaction effort applied to the area will have a detrimental effect on the anticipated infiltration rate of the proposed infiltration areas.

Environmental Impact

It should be noted that clean, potable water was used for the test. Surface runoff usually carries with it debris and fine particles that are typically expected to reduce the calculated infiltration rate.

Faulting

Based on our review of the referenced geologic maps and literature, no active faults are known to project through the property. Furthermore, the site does not lie within the boundaries of an "Earthquake Fault Zone" as defined by the State of California in the Alquist-Priolo Earthquake Fault Zoning Act (California Geological Survey [CGS], 2018). The Alquist-Priolo Earthquake Fault Zoning Act (AP Act) defines an *active fault* as one that "has had surface displacement within Holocene time (about the last 11,000 years)." The main objective of the AP Act is to prevent the construction of dwellings on top of active faults that could displace the ground surface resulting in loss of life and property. It should be noted that, based on our evaluation, the Newport Inglewood-Rose Canyon fault zone, located approximately 1.25 miles (2.02 kilometers) northeast of the site, would probably generate the most severe site ground motions and, therefore, is the majority contributor to the deterministic minimum component of the ground motion models.

The subject site is located at a distance of less than {6.25 miles (10 km)} from the surface projection of this fault system, which is capable of producing magnitude {6} or larger events with a slip rate along the fault greater than 0.04 inch per year. As such, the site should be considered as a **Near-Fault Site** in accordance with ASCE 7-16, Section 11.4.1.

Seismic Design Parameters

Earthquake loads on earthen structures and buildings are a function of ground acceleration which may be determined from the site-specific ground motion analysis. Alternatively, a design response spectrum can be developed for certain sites based on the code guidelines. To provide the design team with the parameters necessary to construct the design acceleration response spectrum for this project, we used two computer applications. Specifically, the first computer application, which was jointly developed by Structural

Engineering Association of California (SEAOC) and California's Office of Statewide Health Planning and Development (OSHPD), the SEA/OSHPD Seismic Design Maps Tool website, https://seismicmaps.org/, is used to calculate the ground motion parameters. The second computer application, the United Stated Geological Survey (USGS) Unified Hazard Tool website, https://earthquake.usgs.gov/hazards/interactive/, is used to estimate the earthquake magnitude and the distance to surface projection of the fault.

To run the above computer applications, site latitude and longitude, seismic risk category and knowledge of site class are required. The site class definition depends on the direct measurement and the ASCE 7-16 recommended procedure for calculating average small-strain shear wave velocity, Vs30, within the upper 30 meters (approximately 100 feet) of site soils.

No shear wave velocity measurement was performed at the site, however, the subsurface materials at the site appears to exhibit the characteristics of {stiff soils condition for Site Class D designation}. Therefore, an average shear wave velocity of 850 feet per second for the upper 100 feet was assigned to the site based on engineering judgment and geophysical experience. As such, in accordance with ASCE 7-16, Table 20.3-1, Site Class D (D- Default as per SEAOC/OSHPD software) has been assigned to the subject site.

The following table, Table 2, provides parameters required to construct the Seismic Response Coefficient – Natural Period, C_s – T, curve based on ASCE 7-16, Article 12.8 guidelines. A printout of the computer output is attached in Appendix D.

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TABLE 2

Seismic Design Parameters

Ground Motion Parameters	Specific Reference	Parameter Value	Unit
Site Latitude (North)	-	33.911760	°
Site Longitude (West)	-	-118.317770	°
Site Class Definition	Section 1613.2.2 (1), Chapter 20 (2)	D (4)	-
Assumed Seismic Risk Category	Table 1604.5 (1)	II	-
M_w - Earthquake Magnitude	USGS Unified Hazard Tool (3)	6.8 (3)	-
R – Distance to Surface Projection of Fault	USGS Unified Hazard Tool (3)	6.22 (3)	km
S_s - Mapped Spectral Response Acceleration Short Period (0.2 second)	Figure 1613.2.1(1) (1)	1.838 (4)	g
S_1 - Mapped Spectral Response Acceleration Long Period (1.0 second)	Figure 1613.2.1(2) (1)	0.648 (4)	g
F_a – Short Period (0.2 second) Site Coefficient	Table 1613.2.3(1) (1)	1.2 (4)	-
F_v – Long Period (1.0 second) Site Coefficient	Table 1613.2.3(2) (1)	Null (4)	-
S_{MS} – MCE_R Spectral Response Acceleration Parameter Adjusted for Site Class Effect (0.2 second)	Equation 16-36 (1)	2.205 (4)	g
S_{M1} - MCE_R Spectral Response Acceleration Parameter Adjusted for Site Class Effect (1.0 second)	Equation 16-37 (1)	Null (4)	g
S_{DS} - Design Spectral Response Acceleration at 0.2-s	Equation 16-38 (1)	1.47(4)	g
S_{D1} - Design Spectral Response Acceleration at 1-s	Equation 16-39 (1)	Null (4)	g
$T_o = 0.2\ S_{D1}/\ S_{DS}$	Section 11.4.6 (2)	Null	s
$T_s = S_{D1}/\ S_{DS}$	Section 11.4.6 (2)	Null	s
T_L - Long Period Transition Period	Figure 22-14 (2)	8 (4)	s
PGA - Peak Ground Acceleration at MCE_G (*)	Figure 22-9 (2)	0.795	g
F_{PGA} - Site Coefficient Adjusted for Site Class Effect (2)	Table 11.8-1 (2)	1.2 (4)	-
PGA_M –Peak Ground Acceleration (2) Adjusted for Site Class Effect	Equation 11.8-1 (2)	0.954(4)	g
Design PGA ≈ (⅔ PGA_M) - Slope Stability (†)	Similar to Eqs. 16-38 & 16-39 (2)	0.635	g
Design PGA ≈ (0.4 S_{DS}) – Short Retaining Walls (‡)	Equation 11.4-5 (2)	0.588	g
C_{RS} - Short Period Risk Coefficient	Figure 22-18A (2)	0.904 (4)	-
C_{R1} - Long Period Risk Coefficient	Figure 22-19A (2)	0.901 (4)	-
SDC - Seismic Design Category (§)	Section 1613.2.5 (1)	Null (4)	-

References:
(1) California Building Code (CBC), 2022, California Code of Regulations, Title 24, Part 2, Volume I and II.
(2) American Society of Civil Engineers/Structural Engineering Institute (ASCE/SEI), 2016, Minimum Design Loads and Associated Criteria for Buildings and Other Structures, Standards 7-16.
(3) USGS Unified Hazard Tool - https://earthquake.usgs.gov/hazards/interactive/
(4) SEI/OSHPD Seismic Design Map Application – https://seismicmaps.org

Related References:
Federal Emergency Management Agency (FEMA), 2015, NEHERP (National Earthquake Hazards Reduction Program) Recommended Seismic Provision for New Building and Other Structures (FEMA P-1050).

Notes:
* PGA Calculated at the MCE return period of 2475 years (2 percent chance of exceedance in 50 years).
† PGA Calculated at the Design Level of ⅔ of MCE; approximately equivalent to a return period of 475 years (10 percent chance of exceedance in 50 years).
‡ PGA Calculated for short, stubby retaining walls with an infinitesimal (zero) fundamental period.
§ The designation provided herein may be superseded by the structural engineer in accordance with Section 1613.2.5.1, if applicable.

Discussion - General

Owing to the characteristics of the subsurface soils, as defined by Site Class D-Stiff Soil designation, and proximity of the site to the sources of major ground shaking, the site is expected to experience strong ground shaking during its anticipated life span. Under these circumstances, where the code-specified design response spectrum may not adequately characterize site response, the 2022 CBC typically requires a site-specific seismic response analysis to be performed. This requirement is signified/identified by the "null" values that are output using SEA/OSHPD software in determination of short period, but mostly, in determination of long period seismic parameters, see Table 3.

For conditions where a "null" value is reported for the site, a variety of design approaches are permitted by 2022 CBC and ASCE 7-16 in lieu of a site-specific seismic hazard analysis. For any specific site, these alternative design approaches, which include Equivalent Lateral Force (ELF) procedure, Modal Response Spectrum Analysis (MRSA) procedure, Linear Response History Analysis (LRHA) procedure and Simplified Design procedure, among other methods, are expected to provide results that may or may not be more economical than those that are obtained if a site-specific seismic hazards analysis is performed. These design approaches and their limitations should be evaluated by the project structural engineer.

Discussion – Seismic Design Category

Please note that the Seismic Design Category, SDC, is also designated as "null" in Table 3. For condition where the mapped spectral response acceleration parameter at 1 – second period, S_1, is less than 0.75, the 2022 CBC, Section 1613.2.5.1 allows that seismic design category to be determined from Table 1613.2.5(1) alone provided that all 4 requirements concerning fundamental period of structure, story drift, seismic response coefficient, and relative rigidity of the diaphragms are met. Our interpretation of ASCE 7-16 is that for conditions where one or more of these 4 conditions are not met, seismic design category should be assigned based on: 1) 2022 CBC, Table 1613.2.5(1), 2) structure's risk category and 3) the value of S_{DS}, at the discretion of the project structural engineer.

Discussion – Equivalent Lateral Force Method

Should the Equivalent Lateral Force (ELF) method be used for seismic design of structural elements, the value of Constant Velocity Domain Transition Period, T_s, is estimated to be 0.5 seconds and the value of Long Period Transition Period, T_L, is provided in Table 2 for construction of Seismic Response Coefficient – Period (C_s -T) curve that is used in the ELF procedure.

As stated herein, the subject site is considered to be within a Site Class D-Stiff Soil. A site-specific ground motion hazard analysis is not required for structures on Site Class D-Stiff Soil with $S_1 \geq 0.2$ provided that

the Seismic Response Coefficient, C_s, is determined in accordance with ASCE 7-16, Article 12.8 and structural design is performed in accordance with Equivalent Lateral Force (ELF) procedure.

CONCLUSIONS AND RECOMMENDATIONS

General Feasibility

From a soils engineering and engineering geologic point of view, the subject property is considered suitable for the proposed development. Based on our geotechnical investigation of the site, it is our opinion the building site is free of hazard from landslide, liquefaction, settlement, and slippage and will remain so provided the recommendations of this report are incorporated into the design criteria and project specifications. Furthermore, it is our opinion that the proposed grading and construction will not adversely affect the geologic stability of adjoining properties in an adverse manner provided grading and construction are performed in accordance with current standards of practice, all applicable grading ordinances and the recommendations presented in this report.

Plan Review

This report has been prepared without the use of project plans and only based on conceptual discussions with the City and the project team. As such, the recommendations provided in this report should be considered tentative until finalized plans are available and reviewed by our firm. Additional recommendations and/or modification of the recommendations provided herein may be necessary depending on the results of our plan review.

Site Drainage Considerations

Positive surface drainage systems consisting of a combination of sloped concrete flatwork/asphalt pavement, sheet flow gradients, swales and surface area drains (where needed) should be provided around the building and within the planter areas to collect and direct all surface waters to an appropriate drainage facility as determined by the project civil engineer. The ground surfaces of planter and landscape areas that are located within 10 feet of building foundations should be sloped at a minimum gradient of 5 percent away from the foundations and towards the nearest area drains. The ground surfaces of planter and landscape areas that are located more than 10 feet away from building foundations may be sloped at a minimum gradient of 2 percent away from the foundations and towards the nearest area drains.

Concrete flatwork surfaces that are located within 10 feet of building foundations should be inclined at a minimum gradient of 2 percent away from the building foundations and towards the nearest area drains. Concrete flatwork surfaces that are located more than 10 feet away from building foundations may be sloped

at a minimum gradient of 1 percent away from the foundations and towards the nearest area drains. Surface waters should not be allowed to collect or pond against building foundations and within the level areas of the site. All drainage devices should be properly maintained throughout the lifetime of the development. Future changes to site improvements, or planting and watering practices, should not be allowed to cause over-saturation of site soils adjacent to the structures.

WQBMP infiltration systems may be constructed at the site. The WQBMP concept is to maintain the site's pre-development water runoff rates and volumes by implementing design techniques that detain surface runoff and direct the water into systems that infiltrate to the subsurface. This concept is in direct conflict with the geotechnical drainage recommendations presented above to collect surface runoff and transfer this water to an approved drainage device away from buildings and structures. As regulatory guidelines must be met, the project civil engineer will be required to design the site to meet the appropriate regulatory standards; however the project civil engineer must also be cognizant of the geotechnical concerns with water infiltration adjacent to buildings and structures and design accordingly. A minimum setback of at least 15 feet between infiltrations systems and building foundations is suggested to help alleviate this conflict. If this setback distance cannot be maintained, then modified foundation recommendations may be required to alleviate any distress that could be caused by infiltration of water near the foundation systems.

FOUNDATION DESIGN CONSIDERATIONS

Allowable Soil Bearing Capacities

Pad Footings/Deep Foundations

An allowable soil bearing capacity of 1,000 pounds per square foot may be utilized for design of isolated 24-inch-square footings founded at a minimum depth of 12 inches below the lowest adjacent final grade. This value may be increased by 20 percent for each additional foot of depth and by 10 percent for each additional foot of width, to a maximum value of 1,500 pounds per square foot. The recommended allowable bearing value includes both dead and live loads and may be increased by one-third for short duration wind and seismic forces.

Continuous Footings

An allowable soil bearing capacity of 1,000 pounds per square foot may be utilized for design of continuous footings founded at a minimum depth of 12 inches below the lowest adjacent final grade. This value may be increased by 20 percent for each additional foot of depth and by 10 percent for each additional foot of width, to a maximum value of 1,500 pounds per square foot. The recommended allowable bearing value includes both dead and live loads and may be increased by one-third for short duration wind and seismic forces.

Estimated Footing Settlement

Based on the allowable bearing values provided above, total static settlement of the footings under the anticipated loads is expected to be on the order of 1 inch. Differential settlement is expected to be less than ¾ inch over a horizontal span of 30 feet. The majority of settlement is likely to take place as footing loads are applied or shortly thereafter.

Lateral Resistance

A passive earth pressure of 150 pounds per square foot per foot of depth, to a maximum value of 1,500 pounds per square foot, may be used to determine lateral bearing resistance for footings. In addition, a coefficient of friction of 0.25 times the dead load forces may be used between concrete and the supporting soils to determine lateral sliding resistance.

Drilled Pier Foundations

Cast-in-drilled-hole (CIDH) concrete piers may be required for light poles and basketball backboard poles. Shallow piers are usually designed based on rigid body mechanics. Piers or piles generally act as rigid bodies when the length to width ratio is less than 10. Equations for lateral resistance design are given in 2022 CBC section 1807.3. A soil lateral resistance of 100 psf per foot of width should be used in these equations for the lateral resistance. The code limits the use of these equations to piers that are less than 12 feet in length. For vertical loads, a skin friction of 100 and 70 pounds per square foot per foot of depth may be utilized for the design of the pier foundations in compression or tension, respectively. The skin friction for the upper one foot of the caissons should be disregarded in the calculations. An end bearing of 1,000 pounds per square foot may be utilized for caissons shallower than 5 feet. This value may be increased to 1,500 psf for caissons deeper than 5 feet and may be combined with the skin friction.

SOIL CORROSIVITY SCREENING

General Corrosivity Screening

After the completion of rough grading, we performed a limited chemical and electrical tests on a sample considered representative of the onsite soils to identify potential corrosive characteristics of these soils. The common indicators associated with soil corrosivity include water-soluble sulfate and chloride levels, pH (a measure of acidity), and minimum electrical resistivity.

In general, a soil's water-soluble sulfate levels and pH relate to the potential for concrete degradation; water-soluble chlorides in soils impact ferrous metals embedded or encased in concrete, e.g., reinforcing steel; and electrical resistivity is a measure of a soil's corrosion potential to a variety of buried metals used

in the building industry, such as copper tubing and cast or ductile iron pipes. Table 3, below, presents a single value of individual test results with an interpretation of current code indicators and guidelines that are commonly used in this industry. The table includes the code-related classifications of the soils as they relate to the various tests, as well as a general recommendation for possible mitigation measures in view of the potential adverse impact on various components of the proposed structures in direct contact with site soils. The guidelines provided herein should be evaluated and confirmed, or modified, in their entirety by the project structural engineer, corrosion engineer and/or the contractor responsible for concrete placement for structural concrete used in exterior and interior footings, interior slabs on-ground, garage slabs, wall foundations and concrete exposed to weather such as driveways, patios, porches, walkways, ramps, steps, curbs, etc.

TABLE 3

Soil Corrosivity Screening Results

DESCRIPTION	CORROSIVITY TESTS			
Identification	**Minimum Resistivity[1] Ohm-cm**	**pH[1]**	**Sulfate[2] %**	**Chloride[3] ppm**
HA-1	600	7.1	0.0315	307.5

FUTURE IMPROVEMENTS AND/OR GRADING

If additional site improvements are considered in the future, our firm should be notified so that we may provide design recommendations to mitigate movement, settlement and/or tilting of the structures. Construction of additional improvements is particularly critical on or near the tops of descending slopes. Potential problems can develop when drainage on the pads and slopes is altered in any way such as placement of fill and construction of new walkways, patios, landscape walls, swimming pools, spas and/or planters. Therefore, it is recommended that we be engaged to review the final design drawings, specifications and grading plan prior to any new construction. If we are not provided the opportunity to review these documents with respect to the geotechnical aspects of new construction and grading, it should not be assumed that the recommendations provided herein are wholly or impart applicable to the proposed improvements.

REPORT LIMITATIONS

This report is based on the proposed project and geotechnical data as described herein. The materials encountered on the project site, described in other literature, and utilized in our laboratory investigation are believed representative of the project area, and the conclusions and recommendations contained in this

report are presented on that basis. However, soil and bedrock materials can vary in characteristics between points of exploration, both laterally and vertically, and those variations could affect the conclusions and recommendations contained herein. As such, observation and testing by a geotechnical consultant during the grading and construction phases of the project are essential to confirming the basis of this report.

This report has been prepared consistent with the level of care being provided by other professionals providing similar services at the same locale and time period. The contents of this report are professional opinions and as such, are not to be considered a guarantee or warranty.

This report should be reviewed and updated after a period of one year or if the project concept changes from that described herein. Additionally, this report has not been prepared for use by parties or projects other than those named or described herein as it may not contain sufficient information for other parties or other purposes.

The opportunity to be of service is sincerely appreciated. Please call if you have any questions pertaining to this report.

Respectfully submitted,

PETRA GEOSCIENCES, INC.

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KTM/EP/JMS/lv

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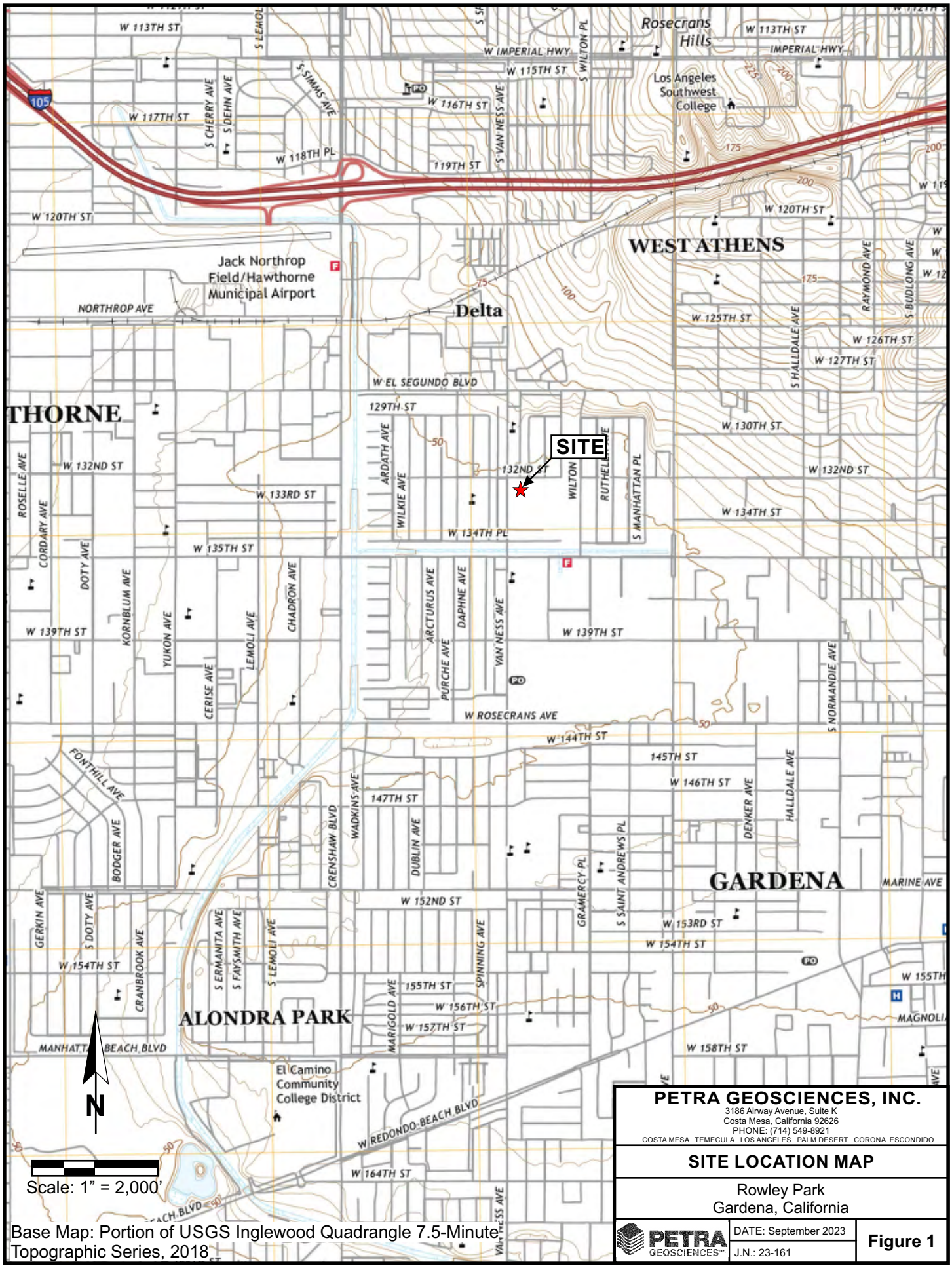
FIGURES



Base Map: Portion of USGS Inglewood Quadrangle 7.5-Minute Topographic Series, 2018

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COSTA MESA TEMECULA LOS ANGELES PALM DESERT CORONA ESCONDIDO

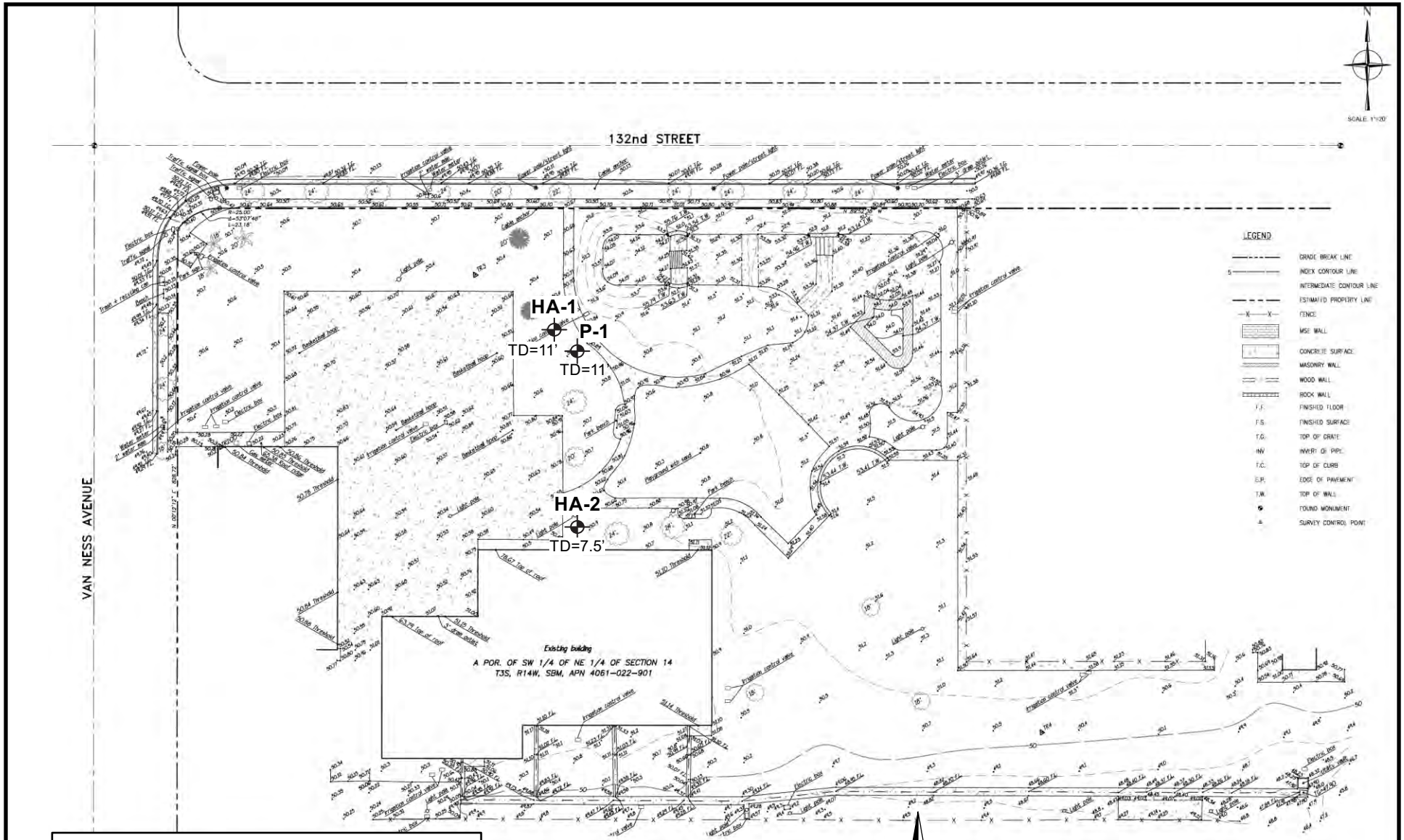
SITE LOCATION MAP

Rowley Park
Gardena, California

PETRA GEOSCIENCES

DATE: September 2023
J.N.: 23-161

Figure 1



EXPLANATION

HA-2
TD=7.5'
Approximate Location of Exploratory Boring
TD= Total Depth

P-1
TD=11'
Approximate Location of Percolation Test Boring
TD= Total Depth

Base Map: Toal Engineering Inc., Topographic Survey of 1322 Van Ness Ave., Gardena, California, dated 7/20/23

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BORING LOCATION MAP

Rowley Park
Gardena, California

PETRA GEOSCIENCES INC

DATE: September 2023
J.N.: 23-161

Figure 2

APPENDIX A

EXPLORATION LOGS

Key to Soil and Bedrock Symbols and Terms

PETRA

Unified Soil Classification System

Coarse-grained Soils > 1/2 of materials is larger than #200 sieve	The No. 200 U.S. Standard Sieve is about the smallest particle visible to the naked eye	**GRAVELS** more than half of coarse fraction is larger than #4 sieve	Clean Gravels (less than 5% fines)	**GW**	Well-graded gravels, gravel-sand mixtures, little or no fines
				GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
			Gravels with fines	**GM**	Silty Gravels, poorly-graded gravel-sand-silt mixtures
				GC	Clayey Gravels, poorly-graded gravel-sand-clay mixtures
		SANDS more than half of coarse fraction is smaller than #4 sieve	Clean Sands (less than 5% fines)	**SW**	Well-graded sands, gravelly sands, little or no fines
				SP	Poorly-graded sands, gravelly sands, little or no fines
			Sands with fines	**SM**	Silty Sands, poorly-graded sand-gravel-silt mixtures
				SC	Clayey Sands, poorly-graded sand-gravel-clay mixtures
Fine-grained Soils > 1/2 of materials is smaller than #200 sieve		**SILTS & CLAYS** Liquid Limit Less Than 50		**ML**	Inorganic silts & very fine sands, silty or clayey fine sands, clayey silts with slight plasticity
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
				OL	Organic silts & clays of low plasticity
		SILTS & CLAYS Liquid Limit Greater Than 50		**MH**	Inorganic silts, micaceous or diatomaceous fine sand or silt
				CH	Inorganic clays of high plasticity, fat clays
				OH	Organic silts and clays of medium-to-high plasticity
Highly Organic Soils				**PT**	Peat, humus swamp soils with high organic content

Grain Size

Description		Sieve Size	Grain Size	Approximate Size
Boulders		>12"	>12"	Larger than basketball-sized
Cobbles		3 - 12"	3 - 12"	Fist-sized to basketball-sized
Gravel	coarse	3/4 - 3"	3/4 - 3"	Thumb-sized to fist-sized
	fine	#4 - 3/4"	0.19 - 0.75"	Pea-sized to thumb-sized
Sand	coarse	#10 - #4	0.079 - 0.19"	Rock salt-sized to pea-sized
	medium	#40 - #10	0.017 - 0.079"	Sugar-sized to rock salt-sized
	fine	#200 - #40	0.0029 - 0.017"	Flour-sized to sugar-sized to
Fines		Passing #200	<0.0029"	Flour-sized and smaller

Modifiers

Trace	< 1 %
Few	1 - 5%
Some	5 - 12 %
Numerous	12 - 20 %

Laboratory Test Abbreviations

MAX	Maximum Dry Density	MA	Mechanical (Particle Size) Analysis
EXP	Expansion Potential	AT	Atterberg Limits
SO4	Soluble Sulfate Content	#200	#200 Screen Wash
RES	Resistivity	DSU	Direct Shear (Undisturbed Sample)
pH	Acidity	DSR	Direct Shear (Remolded Sample)
CON	Consolidation	HYD	Hydrometer Analysis
SW	Swell	SE	Sand Equivalent
CL	Chloride Content	OC	Organic Content
RV	R-Value	COMP	Mortar Cylinder Compression

Bedrock Hardness

Soft	Can be crushed and granulated by hand; "soil like" and structureless
Moderately Hard	Can be grooved with fingernails; gouged easily with butter knife; crumbles under light hammer blows
Hard	Cannot break by hand; can be grooved with a sharp knife; breaks with a moderate hammer blow
Very Hard	Sharp knife leaves scratch; chips with repeated hammer blows

Sampler and Symbol Descriptions

Approximate Depth of Groundwater Encountered

Approximate Depth of Standing Groundwater

Modified California Split Spoon Sample

No Recovery in Mod. Calif. Split Spoon Sample

Standard Penetration Test

Shelby Tube Sample

Bulk Sample

No Recovery in SPT Sampler

No Recovery in Shelby Tube

Notes:

Blows Per Foot: Number of blows required to advance sampler 1 foot (unless a lesser distance is specified). Samplers in general were driven into the soil or bedrock at the bottom of the hole with a standard (140 lb.) hammer dropping a standard 30 inches unless noted otherwise in Log Notes. Drive samples collected in bucket auger borings may be obtained by dropping non-standard weight from variable heights. When a SPT sampler is used the blow count conforms to ASTM D-1586

EXPLORATION LOG

Project:	**Rowley Park**		Boring No.: **HA-1**
Location:	**13220 Van Ness Avenue, Gardena, CA**		Elevation: **±50'**
Job No.:	**23-161**	Client: **BGB Design Group**	Date: **6/15/2023**
Drill Method:	**Hand Auger**	Driving Weight: **Hand Driven**	Logged By: **KTM**

Depth (Feet)	Lith-ology	Material Description	WATER	Samples: Blows per 6 in.	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
0		**ARTIFICIAL FILL (af)**							MAX, EI, CL, RES, pH, S04, AT
		Clay (CL): Dark brown, dry, stiff, many roots.							
		Silty Sand (SM): Dark brown, moist, medium-dense, fine-grained sand.			■		15.4	94.2	
		YOUNGER ALLUVIUM (Qya)							
		Silty Sand (SM): Gray, moist, medium-dense, fine-grained sand.							
		Silty Clay (CL): Gray to brown, moist, soft, moderately plastic.							
5		Becomes dark brown.			■		22.8	95.9	
		Sandy Clay (CL): Brown, moist, firm, fine-grained sand.							
					■		13.7	104.9	
10		Silty Sand (SM): Light brown, moist, medium-dense.							
		Total Depth= 11'							
		No groundwater encountered							
		Boring backfilled with cuttings.							
15									
20									
25									
30									

PLATE A-1

Petra Geosciences, Inc.

EXPLORATION LOG

Project:	**Rowley Park**		Boring No.: **HA-2**
Location:	**13220 Van Ness Avenue, Gardena, CA**		Elevation: **±50'**
Job No.:	**23-161**	Client: **BGB Design Group**	Date: **6/15/2023**
Drill Method:	**Hand Auger**	Driving Weight: **Hand driven**	Logged By: **KTM**

Depth (Feet)	Lith-ology	Material Description	WATER	Samples: Blows per 6 in.	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
0		**ARTIFICIAL FILL (af)** Clay (CL): Dark brown, dry, very stiff, many roots.							
					■		17.9	104.5	
		YOUNGER ALLUVIUM (Qya) Clay (CL): Dark brown, moist, firm.							
5					■		23.6	93.8	
		Total Depth= 7.5' No groundwater encountered Boring backfilled with cuttings.							
10									
15									
20									
25									
30									

PLATE A-2

Petra Geosciences, Inc.

EXPLORATION LOG

Project:	**Rowley Park**		Boring No.: **P-1**
Location:	**13220 Van Ness Avenue, Gardena, CA**		Elevation: **±51'**
Job No.:	**23-161**	Client: **BGB Design Group**	Date: **8/10/2023**
Drill Method:	**Hand Auger**	Driving Weight: **Hand Driven**	Logged By: **KTM**

Depth (Feet)	Lith-ology	Material Description	WATER	Samples: Blows per 6 in.	Samples: Core	Samples: Bulk	Laboratory Tests: Moisture Content (%)	Laboratory Tests: Dry Density (pcf)	Laboratory Tests: Other Lab Tests
0		**ARTIFICIAL FILL (af)** Clay (CL): Dark brown, moist, soft, many roots.							
5		**YOUNGER ALLUVIUM (Qya)** Sandy Clay (CL): Light brown, moist, firm, fine-grained sand, slightly plastic.				■			
		Clayey Sand (CL): Light brown, moist, medium-dense, fine-grained sand, low plasticity.							
10		Silty Sand (SM): Light brown, moist, medium-dense, fine-grained sand.				■			
		Total Depth= 11' No groundwater encountered Percolation test installed within boring utilizing a 2 inch solid and perforated pipe with 3/ 4 inch gravel from 5 to 11 feet in depth.							
15									
20									
25									
30									

PLATE A-3

Petra Geosciences, Inc.

APPENDIX B

LABORATORY TEST PROCEDURES

LABORATORY DATA SUMMARY

LABORATORY TEST PROCEDURES

Soil Classification

Soil materials encountered within the property were classified and described in accordance with the Unified Soil Classification System and in general accordance with the current version of Test Method ASTM D 2488. The assigned group symbols are presented in the exploration logs, Appendix A.

In Situ Moisture Content and Dry Unit Weight

In-place moisture content and dry unit weight of selected, relatively undisturbed soil samples were determined in accordance with the current version of the Test Method ASTM D 2435 and Test Method ASTM D 2216, respectively. Test data are presented on the exploration logs, Appendix A.

Laboratory Maximum Dry Unit Weight and Optimum Moisture Content

The maximum dry unit weight and optimum moisture content of the on-site soils were determined for a selected bulk sample in accordance with current version of ASTM D 1557. The results of these tests are presented on Plate B-1 and B-2.

Corrosivity Screening

Chemical and electrical analyses were performed on a selected bulk sample of onsite soils to determine their soluble sulfate content, chloride content, pH (acidity), and minimum electrical resistivity. These tests were performed in accordance with the current versions of California Test Method Nos. CTM 417, CTM 422 and CTM 643, respectively. The results of these tests are included on Plate B-1.

Atterberg Limits

The Atterberg limits (liquid limit and plastic limit) were determined for selected bulk samples of representative materials in accordance with the latest version of Test Method ASTM D 4318. The results of these tests are included on Plates B-1 and B-3.

LABORATORY DATA SUMMARY													
Boring Number	Sample Depth (ft)	Soil/Bedrock Description	Max. Dry Density [1] (pcf)	Optimum Moisture[1] (%)	Expansion Index[2]	Expansion Potential[3]	Atterberg Limits[4]			Sulfate Content[5] (%)	Chloride Content[6] (ppm)	pH[7]	Minimum Resistivity[7] (Ohm-cm)
							LL	PL	PI				
HA-1	0-5	Silty Clay (CL)	121.0	12.0	83	High	41	13	28	0.0315	307.5	7.1	600

Test Procedures:

[1] Per ASTM Test Method D 1557
[2] Per ASTM Test Method D 4829
[3] Per ASTM Test Method D 4829
[4] Per ASTM Test Method D 4318
[5] Per California Test Method 417
[6] Per California Test Method 422
[7] Per California Test Method 643

COMPACTION TEST REPORT

Project No.: 23-161 **Date:** 7/10/2023
Project: Rowley Park
Client: BGB Design Group
Source of Sample: 23L160 **Depth:** 0-5
Sample Number: HA-1
Remarks:

MATERIAL DESCRIPTION

Description: Dark Brown Silty Clay

Classifications - **USCS:** **AASHTO:**
Nat. Moist. = **Sp.G. =**
Liquid Limit = 41 **Plasticity Index =** 28
% < No.200 =

TEST RESULTS
Maximum dry density = 121.0 pcf
Optimum moisture = 12.0 %

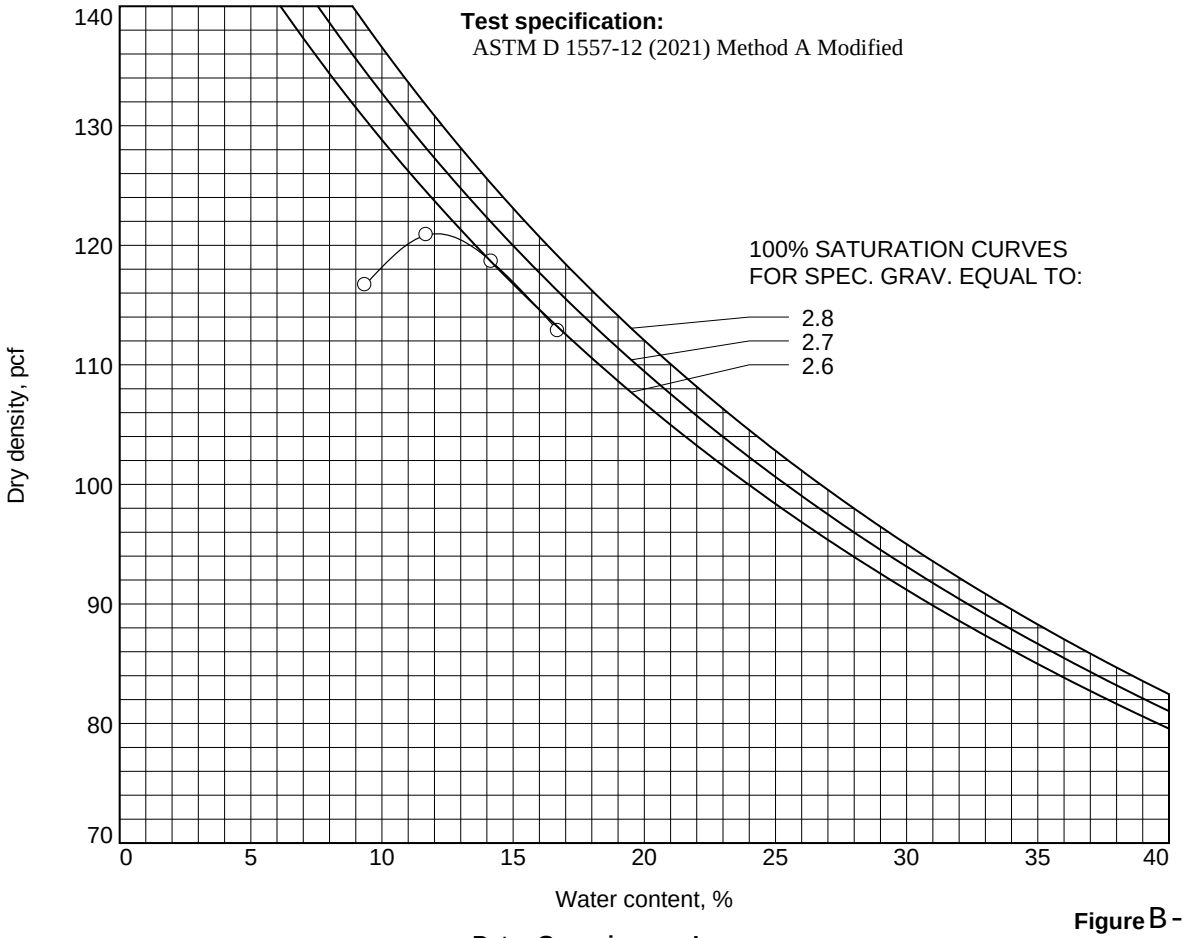
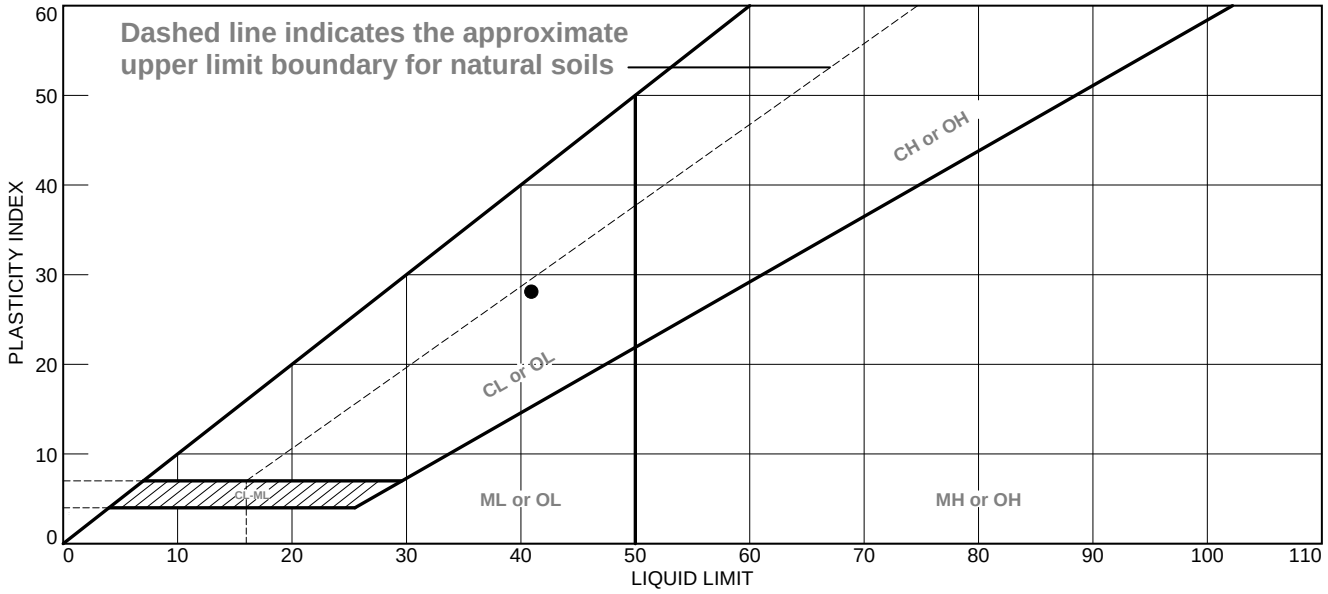


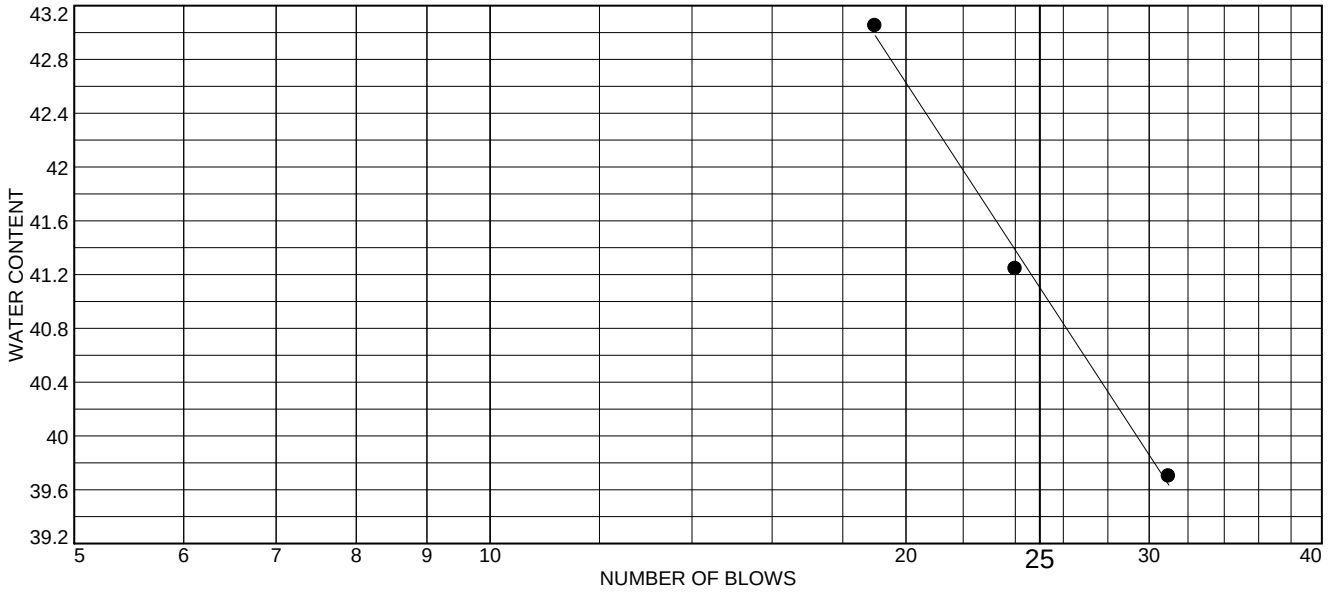
Figure B - 2

Petra Geosciences, Inc.

Tested By: DI

LIQUID AND PLASTIC LIMITS TEST REPORT





	MATERIAL DESCRIPTION	LL	PL	PI	%<#40	%<#200	USCS
●	Dark Brown Silty Clay	41	13	28			

Project No. 23-161 **Client:** BGB Design Group

Project: Rowley Park

Source of Sample: 23L160 **Depth:** 0-5
Sample Number: HA-1

Remarks:

PETRA GEOSCIENCES INC.

Figure B - 3

Tested By: DI

APPENDIX C

PERCOLATION TEST RESULTS

FALLING HEAD PERCOLATION TEST BORING: P-1

Total Depth of Boring, D_T (ft):	**11**	**Test Date:**	**8/10/2023**
Diameter of Hole, D (in):	**6**	**Tested By:**	**KTM/SS**
Diameter of Casing, d (in):	**2**	**USCS Soil Type:**	**Clayey Sand**
Depth of Slotted Casing (ft):	**6 to 11'**	**Depth to Groundwater (ft):**	**~25'**
Porosity of Annulus Material, *n*:	**0.44**	**Ground Elevation (msl ft):**	**51'**
Depth to Intial Water Depth D_1 (ft):	**7.3**	**Start Time of Presoak:**	**8:50AM**
Thickness of Bentonite Plug (in.):	**n/a**	**Start Time of Starndard:**	**9:50AM**
Liquid Description:	**Clear Clean Water**	**Measurement Method:**	**Sounder**
Depth from Existing Ground Surface to Bottom of Prop. Inflitration System (ft):			

TIME INTERVAL TEST

Time (min)	Initial D_0, (ft)	Depth to Water		Change in Water Level ΔD (in)	Water in Hole After (Yes/No):		Time Interval For Test (mins):
		At 10 Min (ft)	At 30 Min (ft)		10 minutes?	30 minutes?	
30	7.3	7.55	7.9	0.60	yes	yes	30

FALLING HEAD PERCOLATION TEST

Trial No.	Time Interval Δt (min.)	Depth to Water, D_w		Change in Water Level ΔH (ft.)	Change in Water Level ΔH (in.)	Percolation Rate (min./in.)	Infiltration Rate (in./hr.)
		Initial (ft.)	Final (ft.)				
1	30	7.90	8.40	0.50	6.00	5.00	0.32
2	30	8.40	8.70	0.30	3.60	8.33	0.22
3	30	8.70	9.00	0.30	3.60	8.33	0.25
4	30	9.00	9.30	0.30	3.60	8.33	0.29
5	30	9.30	9.60	0.30	3.60	8.33	0.35
6	30	9.60	9.80	0.20	2.40	12.50	0.27
7	30	9.80	10.00	0.20	2.40	12.50	0.32
8	30	10.00	10.20	0.20	2.40	12.50	0.38
TIME OF WATER TO FLOW COMPLETELY OUT OF THE HOLE							
	30	10.2	10.40	0.20	2.40	12.50	0.48

REDUCTION FACTOR WORKSHEET

Category	Reduction Factor (1 to 3)
RF_t - Small Diameter Boring	2
RF_v - Site Variability, Number of tests, and thoroughness of subsurface investigation	3
RF_s - Long-term siltation, plugging, and maintenance	2
Total Reduction Factor*, RF =	7

TEST RESULTS**

Measured Infiltration Rate (Average of Stabilized Last 3 Readings) =	**0.33** in./hr.
Design Infiltration Rate[#] =	**0.05** in./hr.

*Total Reduction Factor, (RF) = $RF_t + RF_v + RF_s$

[#]Design Infiltration Rate = Measured Infiltration Rate / RF

****Infiltration Rate = Average Stabilized Volumetric Rate By Surface Area of Test Section, in Specific Time**

Flow Volume = Volume Inside of Pipe (V_1) + Volume in Annular Space (V_2)

$V_1 = \pi(r_{casing})^2\Delta h$

$V_2 = n\,\pi[(r_{boring})^2-(r_{casing})^2]\Delta h$

Flow Area = $2\pi(r_{boring})H_{average} + \pi(r_{boring})^2$

$H_{average}$ = $(H_o+H_\phi)/2$

Reference:

Guildlines For Geotechnical Investigation and Reporting Low Impact Development Stormwater Infiltration, Los Angeles County, Department of Public Works, Geotechnical and Engineering Division; GS200.1, dated June 30, 2021

PETRA GEOSCIENCES, INC.
3186 Airway Avenue, Suite K
Costa Mesa, California 92626
PHONE: (714) 549-8921
COSTA MESA TEMECULA LOS ANGELES PALM DESERT CORONA ESCONDIDO

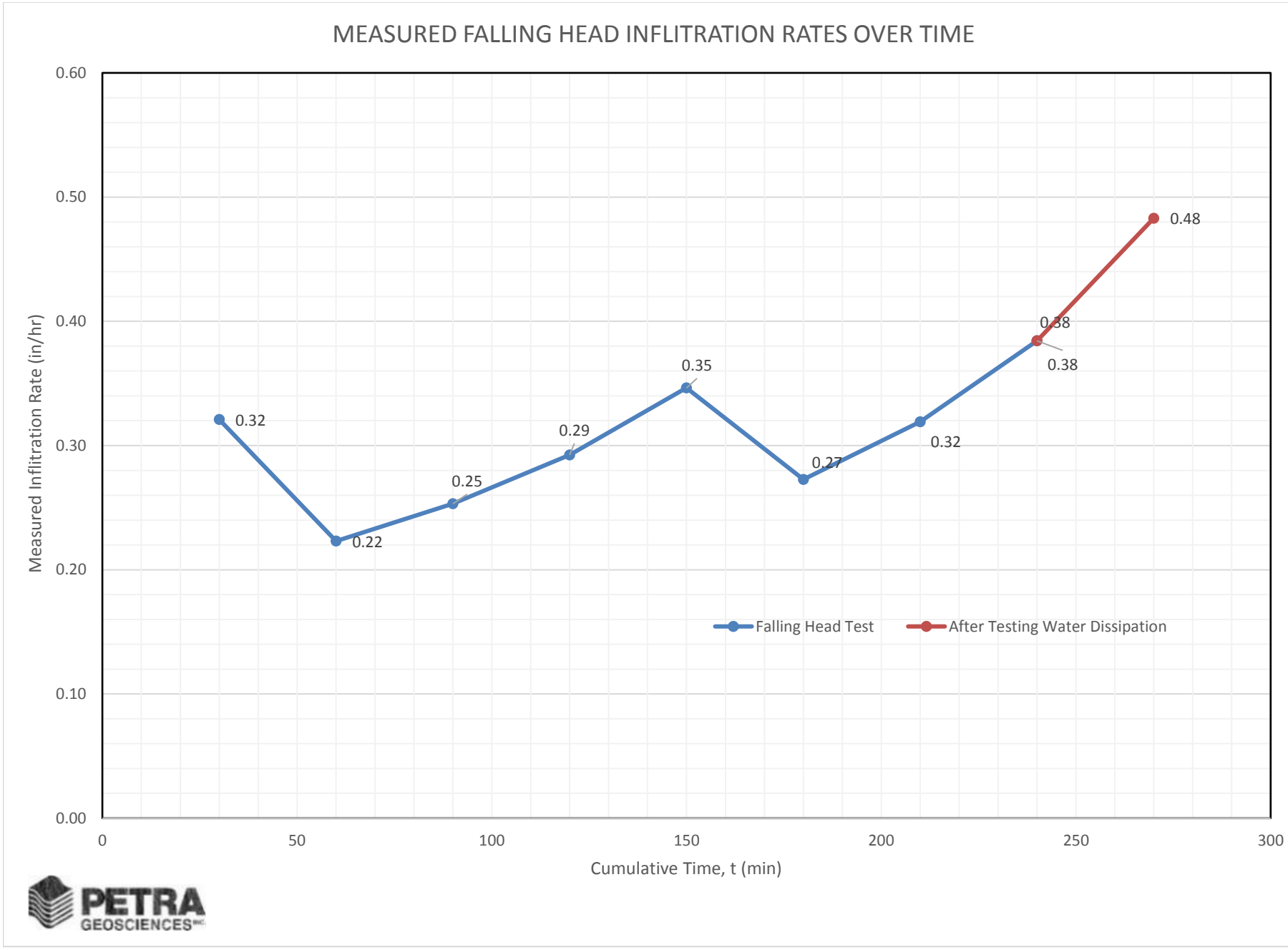
PERCOLATION TEST SUMMARY

Rowley Park
Gardena, California

PETRA GEOSCIENCES

DATE: Sept., 2023
J.N.: 23-161

Appendix C



PETRA GEOSCIENCES INC.

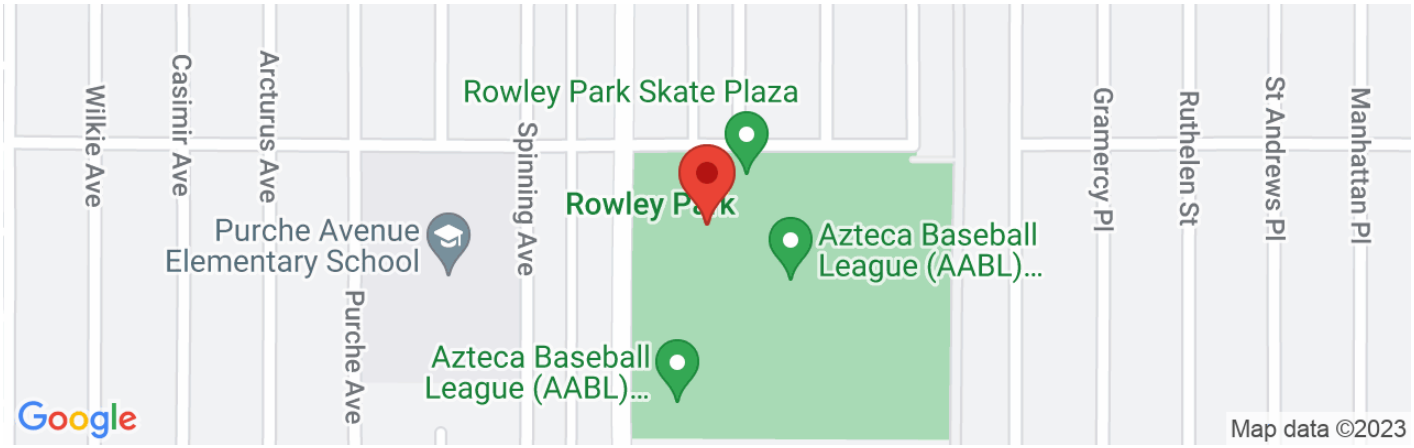
APPENDIX D

SEISMIC DESIGN ANALYSIS

USGS web services were down for some period of time and as a result this tool wasn't operational, resulting in *timeout* error.
USGS web services are now operational so this tool should work as expected.

OSHPD

Latitude, Longitude: 33.912, -118.3170



Date	9/25/2023, 3:23:39 PM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D - Default (See Section 11.4.3)

Type	Value	Description
S_S	1.838	MCE_R ground motion. (for 0.2 second period)
S_1	0.648	MCE_R ground motion. (for 1.0s period)
S_{MS}	2.205	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1.47	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1.2	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.795	MCE_G peak ground acceleration
F_{PGA}	1.2	Site amplification factor at PGA
PGA_M	0.954	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	1.838	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	2.033	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	2.457	Factored deterministic acceleration value. (0.2 second)
S1RT	0.648	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.719	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.836	Factored deterministic acceleration value. (1.0 second)
PGAd	0.996	Factored deterministic acceleration value. (Peak Ground Acceleration)

Type	Value	Description
PGA_{UH}	0.795	Uniform-hazard (2% probability of exceedance in 50 years) Peak Ground Acceleration
C_{RS}	0.904	Mapped value of the risk coefficient at short periods
C_{R1}	0.901	Mapped value of the risk coefficient at a period of 1 s
C_V	1.468	Vertical coefficient

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U.S. Geological Survey - Earthquake Hazards Program

Unified Hazard Tool

Please do not use this tool to obtain ground motion parameter values for the design code reference documents covered by the U.S. Seismic Design Maps web tools (e.g., the International Building Code and the ASCE 7 or 41 Standard). The values returned by the two applications are not identical.

Please also see the new USGS Earthquake Hazard Toolbox for access to the most recent NSHMs for the conterminous U.S. and Hawaii.

Input

Edition

Dynamic: Conterminous U.S. 2014 (u…

Spectral Period

Peak Ground Acceleration

Latitude

Decimal degrees

33.91176

Time Horizon

Return period in years

2475

Longitude

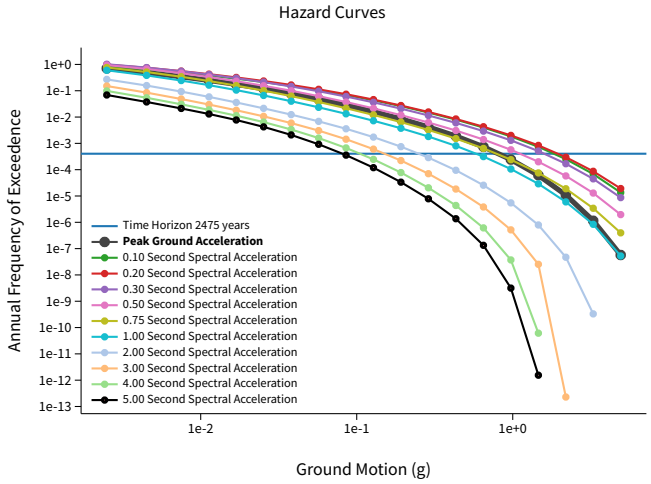
Decimal degrees, negative values for western longitudes

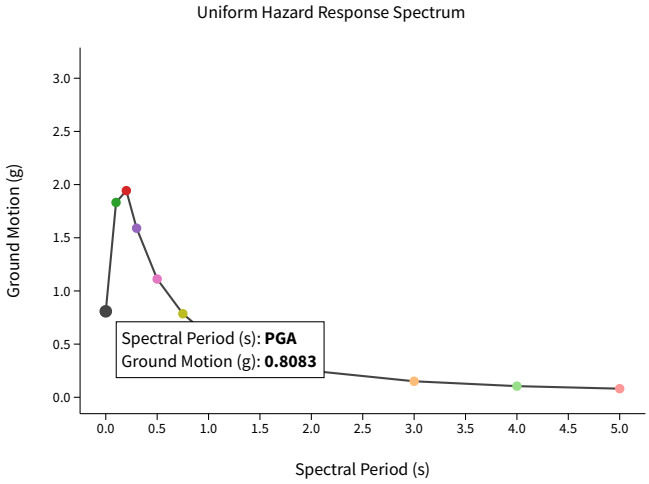
-118.31777

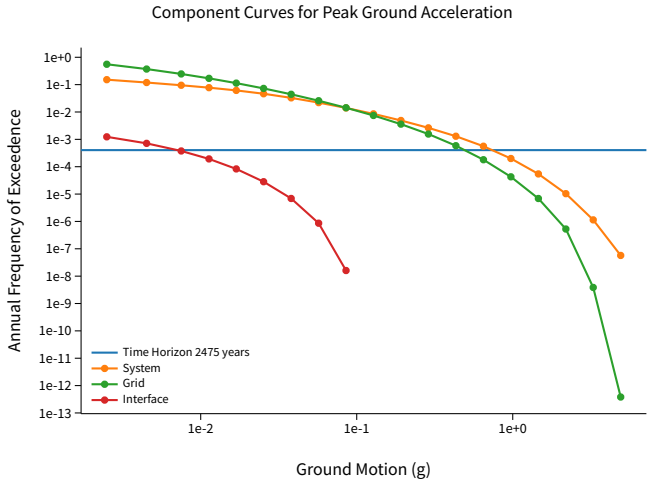
Site Class

760 m/s (B/C boundary)

Hazard Curve





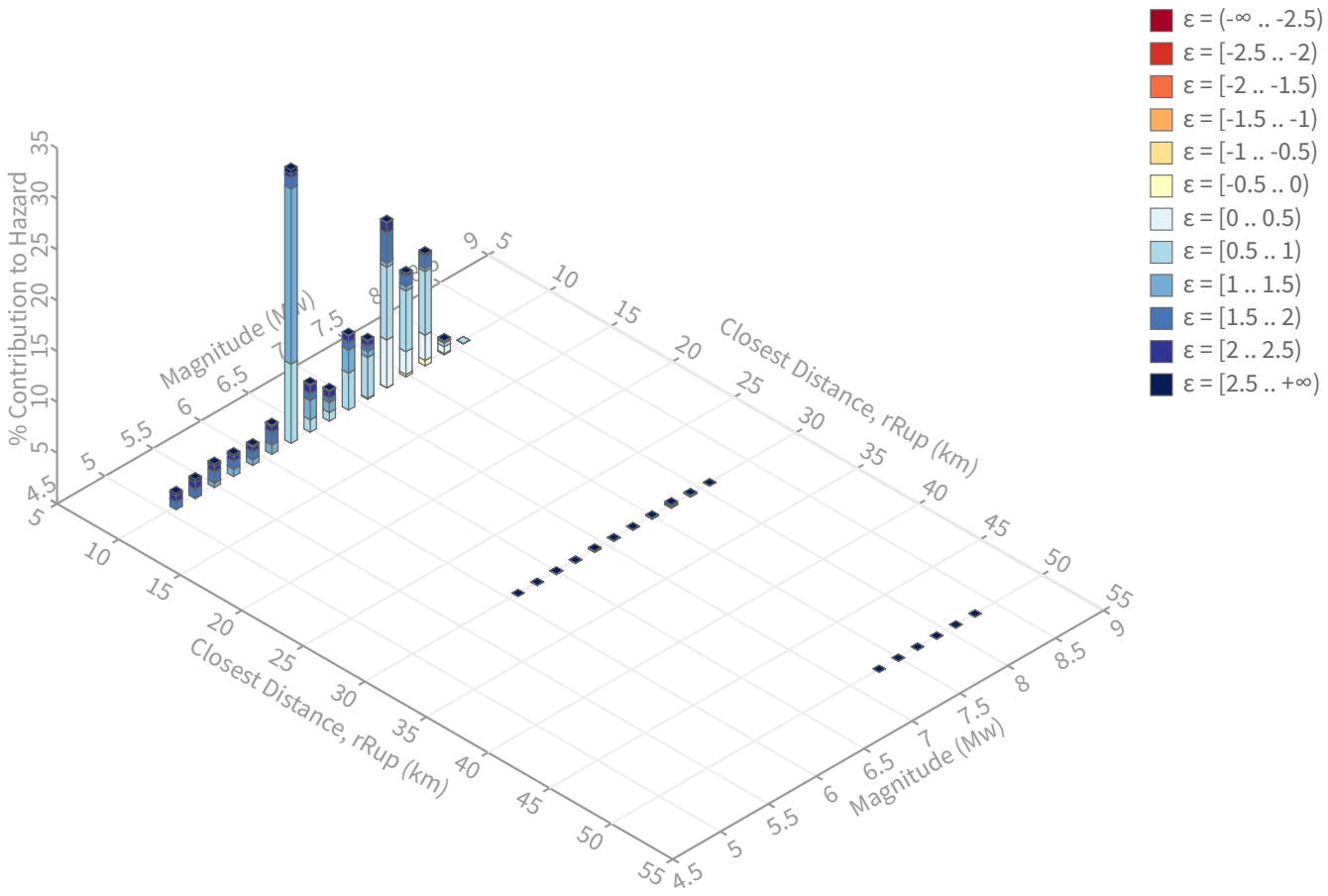


View Raw Data

Deaggregation

Component

Total


ε = (-∞ .. -2.5)
ε = [-2.5 .. -2)
ε = [-2 .. -1.5)
ε = [-1.5 .. -1)
ε = [-1 .. -0.5)
ε = [-0.5 .. 0)
ε = [0 .. 0.5)
ε = [0.5 .. 1)
ε = [1 .. 1.5)
ε = [1.5 .. 2)
ε = [2 .. 2.5)
ε = [2.5 .. +∞)
% Contribution to Hazard
Magnitude (Mw)
Closest Distance, rRup (km)
Closest Distance, rRup (km)
Magnitude (Mw)

Summary statistics for, Deaggregation: Total

Deaggregation targets

Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr^{-1}
PGA ground motion: 0.80828831 g

Recovered targets

Return period: 2717.8899 yrs
Exceedance rate: 0.00036793249 yr^{-1}

Totals

Binned: 100 %
Residual: 0 %
Trace: 0.03 %

Mean (over all sources)

m: 6.82
r: 6.22 km
ε_0: 1.16 σ

Mode (largest m-r bin)

m: 6.36
r: 3.53 km
ε_0: 1.19 σ
Contribution: 26.88 %

Mode (largest m-r-ε_0 bin)

m: 6.36
r: 3.1 km
ε_0: 1.2 σ
Contribution: 17.25 %

Discretization

r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys

ε0: [-∞ .. -2.5)
ε1: [-2.5 .. -2.0)
ε2: [-2.0 .. -1.5)
ε3: [-1.5 .. -1.0)
ε4: [-1.0 .. -0.5)
ε5: [-0.5 .. 0.0)
ε6: [0.0 .. 0.5)
ε7: [0.5 .. 1.0)
ε8: [1.0 .. 1.5)
ε9: [1.5 .. 2.0)
ε10: [2.0 .. 2.5)
ε11: [2.5 .. +∞]

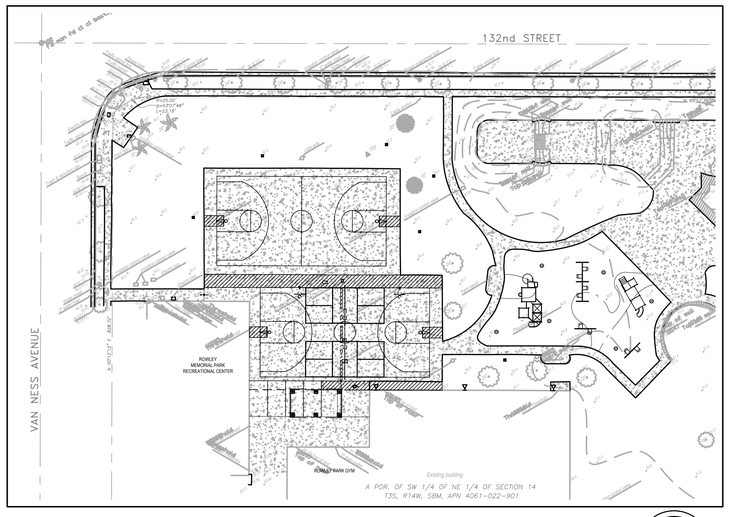
Deaggregation Contributors

Source Set ↳ Source	Type	r	m	ε_0	lon	lat	az	%
UC33brAvg_FM31	System							44.12
Newport-Inglewood alt 1 [7]		2.82	6.36	1.11	118.316°W	33.933°N	4.29	14.36
Newport-Inglewood alt 1 [6]		2.77	7.32	0.74	118.299°W	33.926°N	46.49	14.07
Compton [2]		8.73	7.26	0.62	118.354°W	33.844°N	203.92	6.63
Palos Verdes [13]		12.31	7.19	1.96	118.427°W	33.849°N	235.38	3.05
San Pedro Escarpment [0]		7.94	7.63	0.27	118.450°W	33.782°N	220.30	1.66
UC33brAvg_FM32	System							37.00
Newport-Inglewood alt 2 [6]		2.96	7.31	0.75	118.298°W	33.927°N	46.64	11.27
Newport-Inglewood alt 2 [7]		3.09	6.37	1.14	118.305°W	33.933°N	26.87	9.60
Compton [2]		8.73	7.34	0.58	118.354°W	33.844°N	203.92	7.46
Palos Verdes [13]		12.31	7.23	1.96	118.427°W	33.849°N	235.38	2.85
San Pedro Escarpment [0]		7.94	7.63	0.37	118.450°W	33.782°N	220.30	1.23
Puente Hills (LA) [1]		13.19	7.26	1.83	118.245°W	34.009°N	31.88	1.14
UC33brAvg_FM31 (opt)	Grid							9.57
PointSourceFinite: -118.318, 33.934		5.58	5.75	1.62	118.318°W	33.934°N	0.00	2.73
PointSourceFinite: -118.318, 33.934		5.58	5.75	1.62	118.318°W	33.934°N	0.00	2.73
UC33brAvg_FM32 (opt)	Grid							9.31
PointSourceFinite: -118.318, 33.934		5.58	5.75	1.62	118.318°W	33.934°N	0.00	2.62
PointSourceFinite: -118.318, 33.934		5.58	5.75	1.62	118.318°W	33.934°N	0.00	2.62

CITY OF GARDENA
CONSTRUCTION PLANS
FOR
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
PHASE 1 - DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING
13220 VAN NESS AVENUE, GARDENA, CALIFORNIA
VAN NESS AVENUE & 132ND STREET, GARDENA, CA
JOB NUMBER - J.N. 530

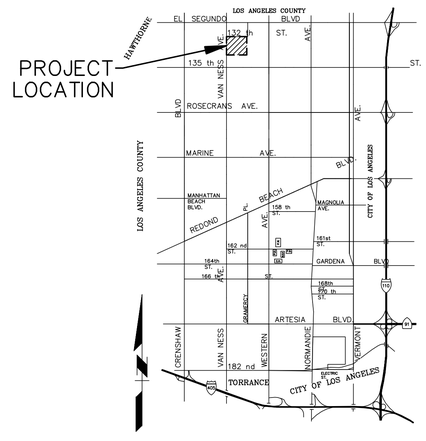
GENERAL NOTES:

1. ALL WORK SPECIFIED HEREIN SHALL BE PERFORMED PER APPLICABLE LAWS, ORDINANCES, AND REGULATIONS.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD AND SHALL REPORT ANY DISCREPANCIES TO OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO START OF WORK, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE INCURRED TO SAME.
4. CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
5. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE WHEN WORK IS COMPLETED.
6. IN ORDER FOR THE LANDSCAPE TO BE CERTIFIED, THE CONTRACTOR MUST GIVE A MIN. OF ONE WEEK'S NOTICE.



KEY MAP
SCALE 1" = 40'

NORTH



VICINITY MAP
N.T.S.

UTILITY CONTACT NUMBERS:

COMPANY	CONTACT	TELEPHONE NO.
CITY OF GARDENA P.W. TRAFFIC/ELECTRICAL	JEFF JALOMO	(310) 217-9430
CITY OF GARDENA P.W. SEWER	JOHN SCHERER	(310) 217-9599
METRO. WATER DISTRICT	CIVIL ENG. SUBSTRUCTURE SEC.	(213) 217-7059
L.A. DEPARTMENT OF WATER & POWER	JOSE PORRAS	(213) 367-1049
L.A. SANITATION DISTRICT	JON GANZ	(562) 908-4288
L.A. COUNTY FLOOD CONTROL DISTRICT	DARYLL CHENOWETH	(626) 458-3709
CHEVRON PIPELINE CO.	DAVE ZERLER	(310) 669-4014
CROWN CASTLE	HECTOR AGUILERA	(951) 454-5111
SOUTHERN CALIFORNIA EDISON COMPANY	JOSHUA REMIJIO	(562) 882-2883
SOUTHERN CALIFORNIA GAS COMPANY	SALVADOR GONZALES	(310) 970-4844
GOLDEN STATE WATER CO.	JOSEPH SALICIDO CONDE VENTURA	(310) 660-0320 X101 (310) 701-2500
AT&T/SBC/PACIFIC BELL	RAYMOND DOVE TERENCE LITTLE	(310) 515-4257 (310) 515-4252
TIME WARNER/SPECTRUM	ARTURO FERNANDEZ	(310) 750-9099
CALIFORNIA UNDERGROUND SERVICE ALERT (USA)		(800) 422-4133

DIGALERT
DIAL TOLL FREE
1-800-422-4133
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

PROJECT CONTACTS:

BUILDER:

CITY OF GARDENA
1700 WEST 162ND STREET
GARDENA, CA 90247
PHONE (310) 217-9500
CONTACT JOSE J. ESPINOZA

CIVIL ENGINEER:

TOAL ENGINEERING
139 AVENIDA NAVARRO
SAN CLEMENTE, CA 92672
PHONE (949) 492-8586
CONTACT ADAM TOAL

ELECTRICAL ENGINEERING:

412 E. VANDERBILT WAY
SAN BERNARDINO, CA 92408
PHONE (909) 890.3700
FAX (909) 890.3770
CONTACT RUDY MORALES

STRUCTURAL ENGINEER:

STRUCTICS, INC.
54105 GLENDA LANE
ANZA, CA 92539
PHONE (760) 814-2201
CONTACT MICHAEL EMDE

LANDSCAPE ARCHITECT:

BGB DESIGN GROUP, INC.
3185 C1 AIRWAY AVE
COSTA MESA, CA 92626
PHONE (714) 545-2898
CONTACT ART GUY

I HAVE REVIEWED THE STRUCTURAL DRAWINGS WHICH ARE IN CONFORMANCE WITH THE GEOTECHNICAL INVESTIGATION BY PETRA GEOTSCIENCES, INC. DATED 9/26/2023. (JN: 23-161-PW)

10/8/24
GEOTECHNICAL ENGINEER LICENSE #2941 DATE

REGISTERED PROFESSIONAL ENGINEER JOHN MONTGOMERY ASHLEY GEOTECHNICAL G2941 STATE OF CALIFORNIA

PROJECT INFO:

BENCHMARK NOTE:
LA COUNTY BENCHMARK RY3551
ELEV=46.686
BASE B, 2013 ADJ.

A POR. OF SW 1/4 OF NE 1/4 OF SECTION 14
T3S, R14W, SBM, APN 4061-022-901

CITY OF GARDENA FREEWAY CITY INCORPORATED 1930

PREPARED BY:
BGB | DESIGN GROUP
3185-C1 AIRWAY AVEUE
COSTA MESA, CA 92626
714 545 2898 OFFICE
714 545 2878 FAX

10/8/24
ARTHUR D GUY RLA 2214 DATE

REGISTERED LANDSCAPE ARCHITECT ARTHUR D GUY III 2214 Signature 10/8/24 Date EXP. 5/31/2025 STATE OF CALIFORNIA

LEGAL DESCRIPTION:

A PORTION OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 14, TOWNSHIP 3 SOUTH, RANGE 14 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF GARDENA, CONTAINED WITHIN ASSESSOR PARCEL NUMBER 4061-022-901

SCOPE OF WORK:

THE EXISTING HARDCOURT PLAY AREA REHABILITATION PROJECT IS DESIGNED TO PROVIDE A NEW ALL-WEATHER SURFACE OVER AN EXISTING CONCRETE SURFACE (PHASE II). INITIAL WORK WITHIN THIS PHASE I PORTION OF THE PROJECT SHALL ENTAIL DEMOLITION AND REPLACEMENT OF THE EXISTING BASKETBALL POST/BACKBOARD/HOOP SYSTEMS, PORTIONS OF DEBILITATED CONCRETE AREA AND TRENCHING FOR NEW ELECTRICAL CONDUIT. ADDITIONALLY, RENOVATING THE EXISTING LIGHTING SYSTEM BY UPGRADING TO HIGH EFFICIENCY LED FIXTURES WITH NEW OR RELOCATED OR UPGRADED POLES / FIXTURES. DRAINAGE DESIGN INCLUDES NEW CATCH BASINS AND DRYWELL STORMWATER STORAGE AND PERCOLATION AREAS WITHIN THE EXISTING TOT LOT. EXCESS STORMWATER MAY BE PUMPED INTO THE ADJACENT TURF AREA AS NEEDED DURING MAJOR STORM EVENTS FROM A DEEP CATCH BASIN SUITABLE FOR A SUMP PUMP LOCATED AT THE END OF THE NEW STORM DRAIN LINE.

2022 CBC DESIGN CODE APPLICABLE

APPLICALBE CODES AND STANDARDS / PROJECT SCOPE
OCCUPANCY TYPE: N/A. OPEN SPACE / NO BUILDING
2022 CA ADINISTRATIVE CODE TITLE 24 PART 1
2022 CA BUILDING CODE TITLE 24 PART 2 VOLUME 1&2
2022 CA ELECTRICAL CODE TITLE 24 PART 3
2022 CA ENERGY CODE TITLE 24 PART 6
AMERICANS WITH DISABILITIES ACT (ADA) TITLE II: ADA STANDARDS FOR ACCESSIBLE DESIGN

SHEET INDEX

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1	TITLE SHEET	5-2616
2	CONSTRUCTION PLAN	5-2616
3	CONSTRUCTION DETAILS	5-2616
4	GRADING PLAN	5-2616
5	ELECTRICAL LEGEND AND NOTES	5-2616
6	LUMINAIRE SCHEDULE	5-2616
7	ELECTRICAL SITE PLAN	5-2616
8	PHOTOMETRIC SITE PLAN	5-2616
9	ELECTRICAL SPECIFICATION	5-2616
10	TITLE 24 FORMS	5-2616
11	STRUCTURAL NOTES	5-2616
12	LIGHT POLE BASKETBALL BACKBOARD FOOTING	5-2616

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE STARTING WORK.
2. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF SCALED DIMENSIONS ON ANY PLAN. ALL DIMENSIONS SHALL BE AS DESIGNATED ON THE PLANS. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE PROPERTY
3. DURING THE PERFORMANCE OF WORK DONE UNDER THE CONTRACT, THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO ANY STRUCTURES ADJACENT TO THE PROJECT BOUNDARIES.
4. EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS OF PARENT UTILITY COMPANIES AND MAY NOT ACCURATELY REPRESENT THEIR ACTUAL LOCATIONS. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATIONS (VERTICAL AND HORIZONTAL) OF ALL UTILITIES, IN THE FIELD OR COORDINATE SUCH INDEPENDENT VERIFICATION WITH THE PARENT UTILITY COMPANIES AND PROVIDE THE CITY WITH THE POTHOLE INFORMATION. THE CONTRACTOR SHALL PROTECT IN PLACE OR COORDINATE WITH PARENT COMPANY FOR THE RELOCATION OF CONFLICTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
5. ADJUST UTILITY VALVE COVERS, UTILITY BOXES, TRAFFIC SIGNAL BOXES, ETC. TO FINISH GARDE. PAYMENT SHALL BE INCLUDED IN THE APPLICABLE CONSTRUCTION BID ITEM AND REFER TO CONSTRUCTION NOTE AND/OR SPECIFICATIONS.
6. PROVIDE TRAFFIC CONTROL PER TECHNICAL PROVISIONS.
7. ALL SURVEY CENTERLINE TIES AND MONUMENTS THAT ARE DAMAGED OR REMOVED SHALL BE RE-ESTABLISHED. THE SURVEYOR SHALL ALSO ESTABLISH CENTERLINE MONUMENTS AND TIES AT ALL STREET INTERSECTIONS WITHIN THE PROJECT LIMITS WHERE NONE EXISTED PRIOR TO CONSTRUCTION. SEE TECHNICAL PROVISIONS.
8. 24 HOUR NOTICE FOR ALL INSPECTIONS REQUIRED.
9. CONTRACTORS SHALL REMOVE AND DISPOSE OF ALL TRASH AND BROKEN BRANCHES BEFORE AND AFTER PAVING.
10. PRIOR TO CUTTING OF ANY ROOTS, CALL PARKS DIVISION AT (310) 217-9564 FOR APPROVAL.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION, OBTAINING NECESSARY APPLICABLE PERMITS WITH LOCAL AGENCIES AND OTHER OWNERS HAVING JURISDICTION AND PREPARING REQUIRED DOCUMENTATION NECESSARY FOR PERMITTING.
12. PROTECT ALL STORM DRAINS, CATCH BASINS, ETC. WITH SAND BAGS, FABRIC, AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES.
13. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-422-4133 TWO WORKING DAYS PRIOR TO ANY EXCAVATION WORK.

REVISIONS

NO.	DESCRIPTION	DATE	APPROVED

B.M.: -
-

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS - ENGINEERING
SHEET TITLE
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
13220 VAN NESS AVENUE, GARDENA, CA

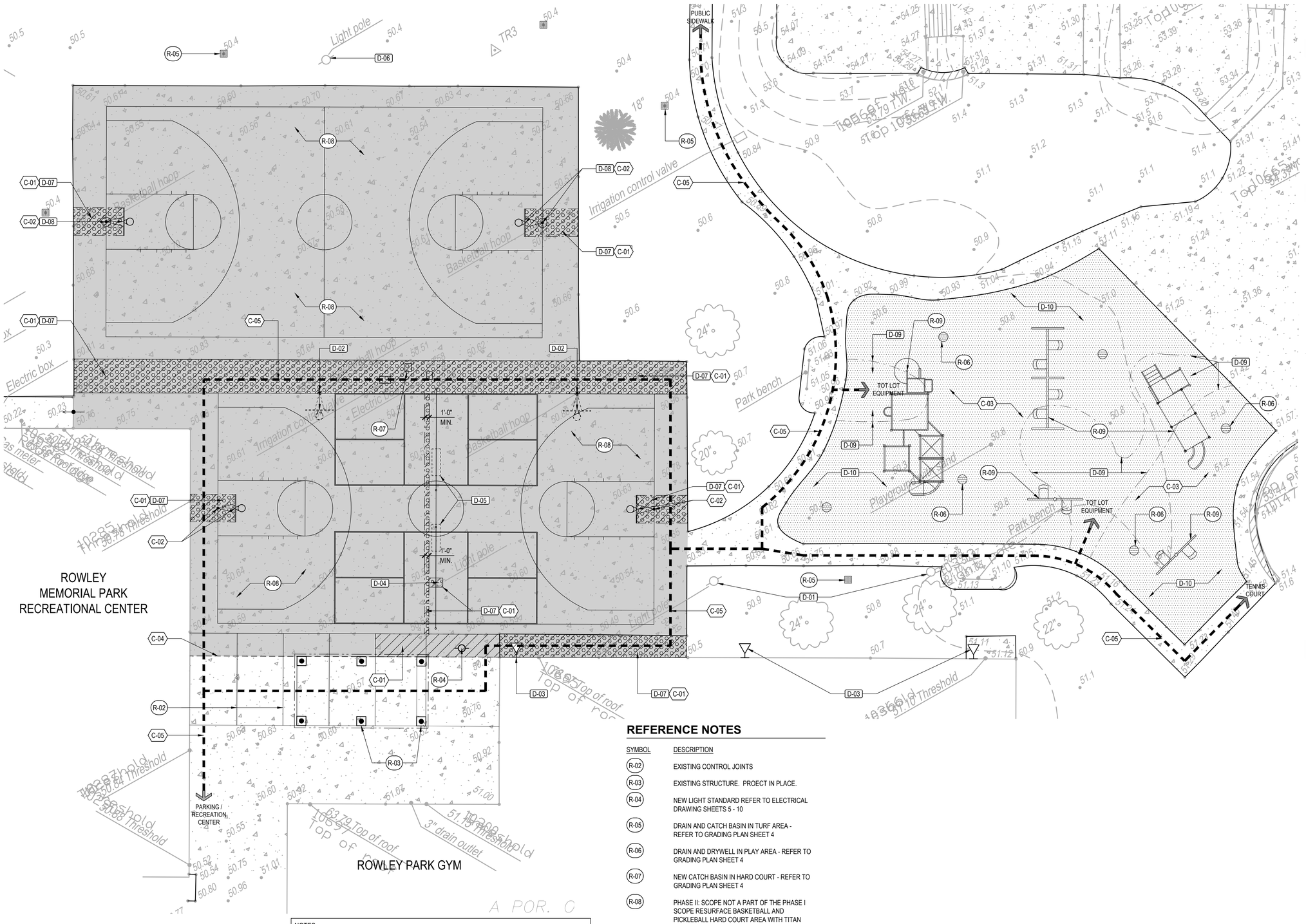
	INITIAL	DATE
DESIGNED BY	-	-
DRAWN BY	-	-
CHECKED BY	-	-

APPROVED BY:
11/12/2024 Allan Rigg
DATE DIRECTOR OF PUBLIC WORKS
SHT. 1 OF 12 DWG. NO. 5-2616

PRINT DATE: Oct 08, 2024 - 2:43pm

FILE PATH: G:\CITY OF GARDENA\ROWLEY PARK B-BALL REHAB\DRAWINGS\03 CONSTRUCTION DOCS - PHASE 1\GAR-230101-03A L1 CO SHEET.DWG, PLOT TIME: 10/8/2024 2:43:57 PM

FILE PATH: G:\CITY OF GARDENA\ROWLEY PARK B-BALL REHAB\DRAWINGS\03 CONSTRUCTION DOCS - PHASE 1\GAR-230101-03A L1 CO SHEET.DWG, PLOT TIME: 10/8/2024 2:43:57 PM



CONSTRUCTION LEGEND

SYMBOL	DESCRIPTION	QTY	DETAIL
C-01	NEW CONCRETE PAVING - 6" MIN. THICKNESS (520-A-2500).	1,610 SF	A/3
C-02	BASKETBALL SYSTEM - STRAIGHT POST (4-1/2 IN POLE WITH 4 FT. OFFSET) 72 IN ACRYLIC BACKBOARD - PLAYGROUND GOAL MODEL; SPA4-AC-UG MFR: DAVE BANG ASSOCIATES, INC. (800-669-2585 / DAVEBANG.COM) CONTACT: CANDY BERNARDI - TERRITORY SUPPORT SPECIALIST (800-669-2585)		
C-03	2-LAYER POURED-IN-PLACE RESILIENT PLAYGROUND SURFACING PRODUCT: SPECTRAPOUR 2.5-INCH SUPREME BASEMAT WITH 1/2-INCH SUPREME TOP SURFACE AND SUPREME PRIMER. REFER TO DETAIL E, SHEET 3 FOR LAYOUT AND COLOR MFR: SPECTRATURF, INC.800.875.5788 WEB: HTTP://WWW.SPECTRATURF.COM.	9,320 SF	C/3 D/3 E/3
C-04	1/8" WIDE X 1-1/2" DEEP SAWCUT JOINT		B/3
C-05	ACCESSIBLE ROUTE (2022 CBC 11B-206)		

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
D-01	EXISTING LIGHT POLE TO BE REPLACED. DISPOSE OF ELECTRICAL POLES, FOOTINGS AND FIXTURES. REFER TO ELECTRICAL DRAWINGS SHEETS 5 - 10
D-02	REMOVE EXISTING BACKBOARDS, HOOPS AND POSTS. DELIVER TO CITY CORP. YARD OR DISPODE AT THE DIRECTION OF THE CITY.
D-03	EXISTING WALL MOUNTED LIGHT FIXTURES TO BE REMOVED AND REPLACED. REFER TO ELECTRICAL DRAWINGS SHEETS 5 - 10
D-04	EXISTING W6 LIGHT POLE TO BE REMOVED. DISPOSE OF POLE, FOOTING AND FIXTURE. REFER TO ELECTRICAL DRAWINGS SHEETS 5 - 10
D-05	REMOVE AND DISPOSE OF EXISTING BENCHES. REPAIR CONCRETE PAVING AS REQUIRED.
D-06	EXISTING LIGHT POLE SHALL BE PROTECTED IN PLACE. REPLACE EXISTING FIXTURES. REFER TO ELECTRICAL DRAWINGS SHEETS 5 - 10

SYMBOL	DESCRIPTION
D-07	REMOVE EXISTING CONCRETE DUE TO CRACKS, TRENCHING, INSTALLING NEW EQUIPMENT OR DIFFERENTIAL SETTLEMENT
D-08	EXISTING BASKETBALL HOOP / BACKBOARD / POST TO BE REMOVED. DELIVER OLD BASKETBALL HOOP / BACKBOARD / POST TO CITY YARD OR AT THE DIRECTION OF THE CITY.
D-09	REMOVE AND DISPOSE EXISTING TOT LOT SAND TO MEET SUBGRADE REQUIREMENT
D-10	REMOVE AND DISPOSE EXISTING RESILIENT SURFACING TO MEET SUBGRADE REQUIREMENT

REFERENCE NOTES

SYMBOL	DESCRIPTION
R-02	EXISTING CONTROL JOINTS
R-03	EXISTING STRUCTURE. PROECT IN PLACE.
R-04	NEW LIGHT STANDARD REFER TO ELECTRICAL DRAWING SHEETS 5 - 10
R-05	DRAIN AND CATCH BASIN IN TURF AREA - REFER TO GRADING PLAN SHEET 4
R-06	DRAIN AND DRYWELL IN PLAY AREA - REFER TO GRADING PLAN SHEET 4
R-07	NEW CATCH BASIN IN HARD COURT - REFER TO GRADING PLAN SHEET 4
R-08	PHASE II: SCOPE NOT A PART OF THE PHASE I SCOPE RESURFACE BASKETBALL AND PICKLEBALL HARD COURT AREA WITH TITAN TRAX PACKAGE RESURFACING SYSTEM.
R-09	PROTECT-IN-PLACE EXISTING PLAY EQUIPMENT

NOTES:
- ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED TO 85% RELATIVE COMPACTION WITH ON-SITE SOIL. THE TOP TWO INCHES SHALL RECEIVE A 50/50 BLEND OF WASHED CONSTRUCTION SAND AND COMPOSTED ORGANIC TOPDRESSING. HAND SEED FESCUE /RYE MIX AT 8 LBS. PER 1,000 S.F. AND PROVIDE TOPDRESS COVER.
- USE EXTREME CARE WHEN TRENCHING FOR DRAIN LINES TO AVOID DAMAGING / SEVERING IRRIGATION PIPING. ALL DAMAGED IRRIGATION PIPE SHALL BE REPAIRED IMMEDIATELY UPON DAMAGE. PROVIDE PHOTO OF DAMAGE THEN REPAIRED PIPE. SUBMIT DIGITAL PHOTOS TO CITY INSPECTOR PRIOR TO BACKFILL.
- ALL OPEN TRENCES SHALL BE BACKFILLED BY THE END OF EACH WORKDAY.

NOTES:
FOR CONSTRUCTION DETAILS, SEE SHEET 3
FOR SPECIFICATION SEE BOOKLET

0 10 20 30 40 feet
1" = 10'

NORTH

DIGALERT
DIAL TOLL FREE
1-800-422-4133
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

PRINT DATE: Oct 08, 2024 - 2:44pm

PREPARED BY:
BGB | DESIGN GROUP
3185-C1 AIRWAY AVEUE
COSTA MESA, CA 92626
714 545 2898 OFFICE
714 545 2878 FAX

ARTHUR D GUY RLA 2214 — 10/8/24 DATE

REGISTERED LANDSCAPE ARCHITECT
ARTHUR D GUY
2214
Signature
10/8/24
Date
Exp. 8/31/2025
STATE OF CALIFORNIA

B.M.: _
_

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS - ENGINEERING

SHEET TITLE
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
13220 VAN NESS AVENUE, GARDENA, CA

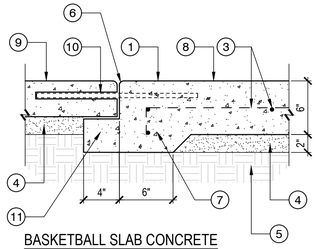
	INITAL	DATE
DESIGNED BY	–	–
DRAWN BY	–	–
CHECKED BY	–	–

APPROVED BY: 11/12/2024 Allan Rigg
DATE — DIRECTOR OF PUBLIC WORKS

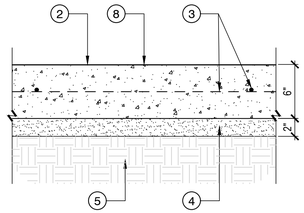
SHT. 2 OF 12 DWG. NO. 5-2616

FILE PATH: G:\CITY OF GARDENA\ROWLEY PARK B-BALL REHAB\DRAWINGS\03 CONSTRUCTION DOCS - PHASE 1\CAR-230101-03A L2 CONST PLAN.DWG, PLOT TIME: 10/8/2024 2:44:05 PM

1. 6 INCH. MIN. THICK NATURAL COLOR CONCRETE PAVING (560-C-3200) LIGHT BROOM FINISH. PROVIDE SAWCUT CONTROL JOINTS BOTH WAYS AT 15 FEET MAX SPACING PER DETAIL C THIS SHEET.
2. 6" MIN. THICK TYPE V / 520-P-2500 CONCRETE PAVING - SEE CONSTRUCTION PLAN FOR CONCRETE FINISH.
3. #3 BARS @ 24 INCH. O.C. EACH WAY, CENTERED IN SLAB. USE WIRE DOBIE BLOCKS TO PREVENT REINFORCING BAR FROM SAGGING.
4. 2 INCH. SAND BED FOR PROPER CURING OF CONCRETE.
5. PREPARE SUB-GRADE IN ACCORDANCE WITH GEOTECHNICAL SOILS REPORT.
6. 1/2" BULLNOSE
7. DEEPENED EDGE
8. REFER TO DETAIL K, SHEET 4 FOR BASKETBALL COURT AND PICKLE BALL SURFACE TREATMENT
9. ADJACENT CONCRETE PAVING - SEE CONSTRUCTION PLAN
10. SPEED DOWEL PSD 09/#4TX (#4 BAR X18 INCH. LONG) AT 24 INCH. O.C. BETWEEN NEW AND EXISTING PAVEMENT
11. KEY INTO EXISTING CONCRETE PAVING

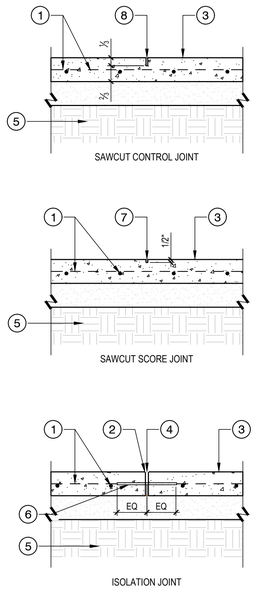


BASKETBALL SLAB CONCRETE



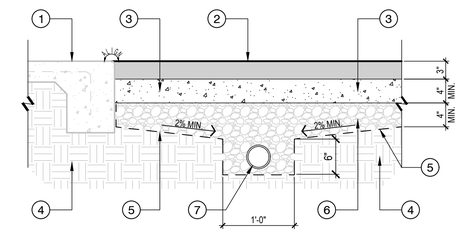
TYPICAL CONCRETE PAVING

A CONCRETE PAVEMENT
SCALE: 1 1/2" = 1'-0" SECTION



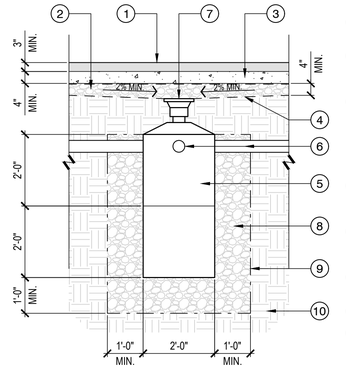
1. REBAR - PER GEO-TECHNICAL SOILS REPORT RECOMMENDATIONS
2. 1/8" RADIUS EDGE
3. CONCRETE PAVING - SEE CONSTRUCTION PLAN
4. "COLD" JOINT. ALL SECTIONS OF PAVING ON EITHER SIDE OF THE JOINT SHALL BE "STITCHED" TOGETHER BY USE OF 18" LONG #4 DOWELS @ 24" O.C.
5. CONCRETE PAVING DETAIL / SUB-GRADE PREPARATION - SEE CONSRUCTION PLAN
6. 18" LONG #4 "SPEED DOWELS" (OR APPROVED EQUAL) @ 24" O.C.
7. 3/16" WIDE (PLUS OR MINUS) X 1/2" DEEP SAWCUT SCORE JOINT. LOCATE WHERE INDICATED ON PLAN.
8. 3/16" WIDE (PLUS OR MINUS) SAWCUT CONTROL JOINT. JOINT DEPTH SHALL BE 1/3 DEPTH OF CONCRETE PAVING. LOCATE SAWCUT / TROWELED SCORE JOINTS SO AS TO FORM, AS NEAR AS POSSIBLE, 8'-0" TO 12'-0" SQUARE PAVING SECTIONS. SAWCUT JOINTS AS SOON AS POSSIBLE, BUT GENERALLY NO LATER THAN 8 TO 24 HOURS AFTER PAVING INSTALLATION AND WHILE THE CONCRETE IS STILL "PLASTIC".

B TYPICAL PAVING JOINTS
SCALE: 1" = 1'-0" SECTION



1. ADJACENT EXISTING CONCRETE PAVING AND THICKEN EDGE - PROTECT IN PLACE
2. 2-LAYER POURED-IN-PLACE RESILIENT PLAYGROUND SURFACING (SEE CONSTRUCTION PLAN FOR SPECIFICATION).
3. MINIMUM 4-INCH PERMEABLE CONCRETE
4. 90% RELATIVE COMPACTED SUB-GRADE
5. 4 oz NON-WOVEN FILTER FABRIC ON TOP AND SIDES OF SUB-BASE UNDER / BEYOND CURB
6. MINIMUM 4-INCH 3/4-INCH CRUSHED ROCK SUB-BASE
7. 4-INCH SCH 40 PERFORATED DRAIN PIPE WITH FILTER SOCK CONNECTING TO DRY WELL SYSTEM - REFER TO CIVIL PLANS FOR LOCATION AND DETAIL.

C BURIED-IN-PLACE PLAYGROUND SURFACING
SCALE: 1" = 1'-0" SECTION

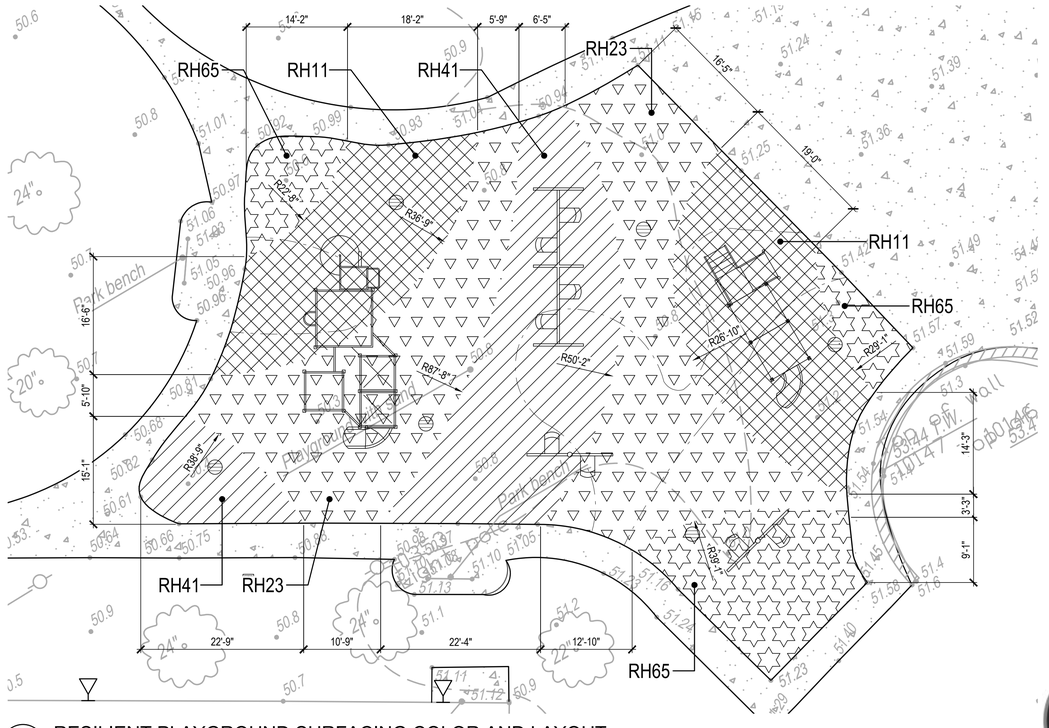


DRY WELL AT PLAYGROUND

1. 2-LAYER POURED-IN-PLACE RESILIENT PLAYGROUND SURFACING (SEE CONSTRUCTION PLAN FOR SPECIFICATION)
2. MINIMUM 4-INCH 3/4-INCH CRUSHED ROCK SUB-BASE
3. MINIMUM 4-INCH PERMEABLE CONCRETE
4. 4 oz NON-WOVEN FILTER FABRIC ON TOP AND SIDES OF SUB-BASE UNDER / BEYOND CURB
5. DRY WELL- NDS FLO-WELL FWAS24 STORM WATER INFILTRATION SYSTEM. KNOCK OUT ALL PERCOLATION HOLES PRIOR TO WRAPPING WITH NDS FWFF67 FILTER FABRIC WRAP (TYP.)
6. PIPE TO BE CONNECTED TO DRYWELL WHERE OCCURS ON CIVIL PLANS
7. DRAIN INLET WITH 4 FEET SQUARE FILTER FABRIC WHERE OCCURS ON CIVIL PLANS
8. 3/4-INCH TO 1-1/2-INCH CLEAN GRAVEL BACKFILL
9. 140N FILTER FABRIC
10. 90% RELATIVE COMPACTED SUB-GRADE

NOTE:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

D DRY WELL - 24-INCH DIA., FWAS24WH
SCALE: 1/2" = 1'-0" SECTION



E RESILIENT PLAYGROUND SURFACING COLOR AND LAYOUT
SCALE: 1" = 10' PLAN VIEW

SPECTRATURF SUPREME COLOR:

RH11 - BRIGHT GREEN
RH23 - AZURE BLUE
RH41 - BRIGHT YELLOW
RH65 - LIGHT GREY

0 10 20 30 40 feet
1" = 10'

NORTH

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CITY OF GARDENA INCORPORATED 1930

PREPARED BY:
BGB | DESIGN GROUP
3185-C1 AIRWAY AVEUE
COSTA MESA, CA 92626
714 545 2898 OFFICE
714 545 2878 FAX

ARTHUR D GUY RLA 2214 — 10/8/24 DATE

REGISTERED LANDSCAPE ARCHITECT
ARTHUR D GUY III
2214
Signature
10/9/24
Date
Exp. 5/31/2025
STATE OF CALIFORNIA

REVISIONS

NO.	DESCRIPTION	DATE	APPROVED

B.M.: –
–

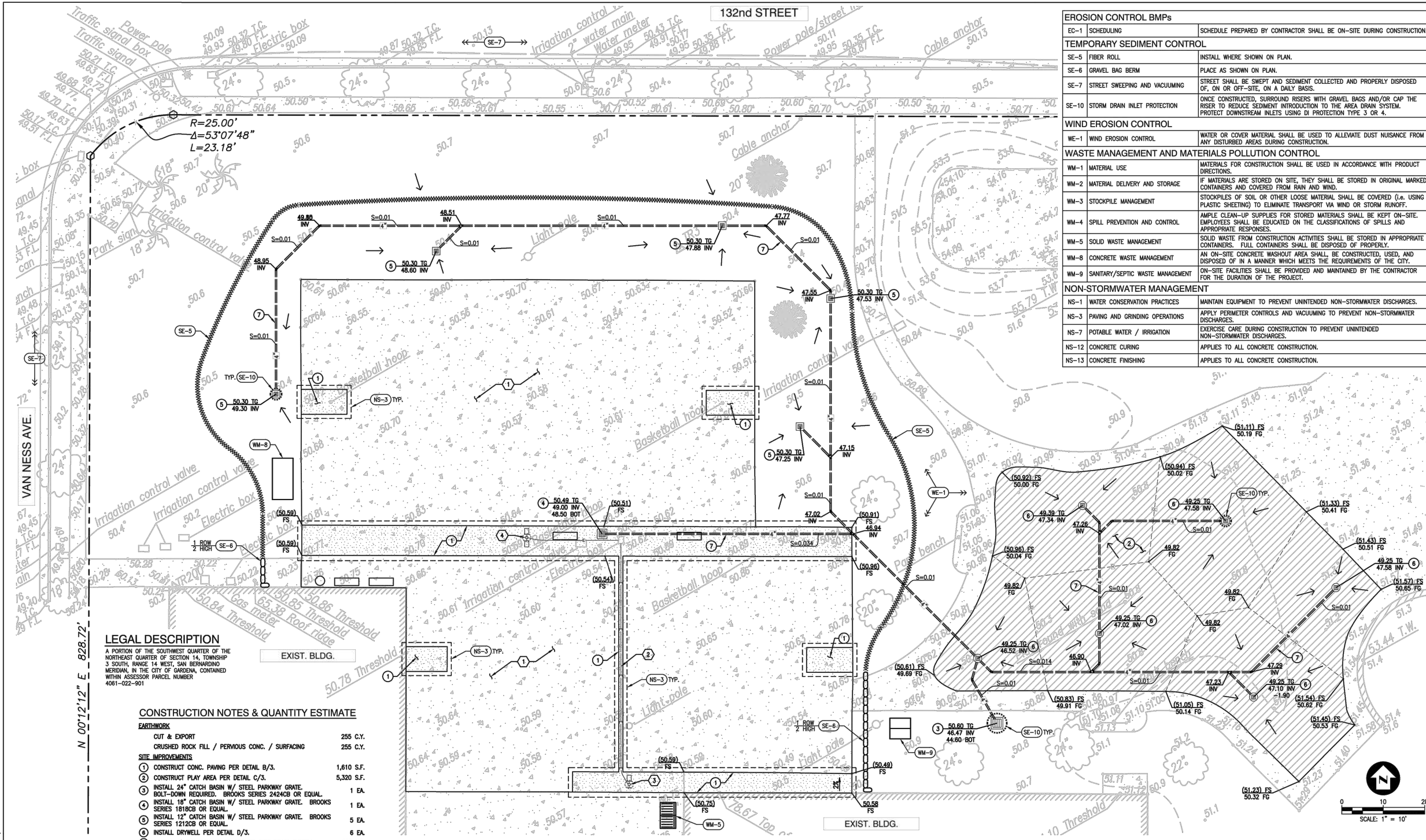
CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS - ENGINEERING

SHEET TITLE
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
13220 VAN NESS AVENUE, GARDENA, CA

	INITAL	DATE
DESIGNED BY	–	–
DRAWN BY	–	–
CHECKED BY	–	–

APPROVED BY: 11/12/2024 Allan Rigg
DATE DIRECTOR OF PUBLIC WORKS
SHT. 3 OF 12 DWG. NO. 5-2616

FILE PATH: G:\CITY OF GARDENA\ROWLEY PARK B-BALL REHAB\DRAWINGS\03 CONSTRUCTION DOCS – PHASE 1\GAR-230101-03A L3 CONST DETAILS.DWG, PLOT TIME: 10/8/2024 2:44:19 PM



LEGAL DESCRIPTION

A PORTION OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 14, TOWNSHIP 3 SOUTH, RANGE 14 WEST, SAN BERNARDINO MERIDIAN, IN THE CITY OF GARDENA, CONTAINED WITHIN ASSESSOR PARCEL NUMBER 4061-022-901

CONSTRUCTION NOTES & QUANTITY ESTIMATE

EARTHWORK		
	CUT & EXPORT	255 C.Y.
	CRUSHED ROCK FILL / PERVIOUS CONC. / SURFACING	255 C.Y.
SITE IMPROVEMENTS		
1	CONSTRUCT CONC. PAVING PER DETAIL B/3.	1,610 S.F.
2	CONSTRUCT PLAY AREA PER DETAIL C/3.	5,320 S.F.
3	INSTALL 24" CATCH BASIN W/ STEEL PARKWAY GRATE. BOLT-DOWN REQUIRED. BROOKS SERIES 2424CB OR EQUAL.	1 EA.
4	INSTALL 18" CATCH BASIN W/ STEEL PARKWAY GRATE. BROOKS SERIES 1818CB OR EQUAL.	1 EA.
5	INSTALL 12" CATCH BASIN W/ STEEL PARKWAY GRATE. BROOKS SERIES 1212CB OR EQUAL.	5 EA.
6	INSTALL DRYWELL PER DETAIL D/3.	6 EA.
7	INSTALL 4" PVC SCH 40 OR SDR 35 PIPE DRAIN SYSTEM.	555 L.F.

KEY NOTES

1. COURT RESURFACING, STRIPING, POLES, ETC. PER LANDSCAPE PLANS.
2. PROP. CONDUIT PER ELECTRICAL DRAWINGS.
3. PROP. LIGHT POLE PER ELECTRICAL DRAWINGS.

DIGALERT
DIAL TOLL FREE 1-800-422-4133
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

EROSION CONTROL NOTE

THE LOCATION AND TYPE OF EROSION AND SEDIMENT CONTROL MEASURES TO BE USED WILL CHANGE DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL IMPLEMENT THE CONTROLS NECESSARY TO PREVENT NON-STORMWATER, SEDIMENT, AND CONTAMINATED RUNOFF DISCHARGES FROM THE SITE AT ALL TIMES.

EROSION CONTROL LEGEND

(XX-X) BMP DESIGNATION IN CALIFORNIA STORMWATER BMP HANDBOOK – CONSTRUCTION, LATEST EDITION, BY THE CALIFORNIA STORMWATER QUALITY ASSOCIATION.

FIBER ROLL (SE-5)

GRAVEL BAG BERM (SE-6)

BOUNDARY NOTE:

THE PLAT SHOWN HEREON REPRESENTS A BEST FIT OF THE RECORD BOUNDARY TO THE FOUND MONUMENTS AND LINES OF OCCUPATION. IT SHALL NOT BE CONSIDERED THE FINAL BOUNDARY, AND A BOUNDARY SURVEY IS RECOMMENDED PRIOR TO DESIGN OR CONSTRUCTION OF IMPROVEMENTS. (THIS TEXT IS ON A NON-PLOTTABLE LAYER AND TO REMAIN VISIBLE IN THE CAD FILE)

EROSION CONTROL BMPs		
EC-1	SCHEDULING	SCHEDULE PREPARED BY CONTRACTOR SHALL BE ON-SITE DURING CONSTRUCTION.
TEMPORARY SEDIMENT CONTROL		
SE-5	FIBER ROLL	INSTALL WHERE SHOWN ON PLAN.
SE-6	GRAVEL BAG BERM	PLACE AS SHOWN ON PLAN.
SE-7	STREET SWEEPING AND VACUUMING	STREET SHALL BE SWEPT AND SEDIMENT COLLECTED AND PROPERLY DISPOSED OF, ON OR OFF-SITE, ON A DAILY BASIS.
SE-10	STORM DRAIN INLET PROTECTION	ONCE CONSTRUCTED, SURROUND RISERS WITH GRAVEL BAGS AND/OR CAP THE RISER TO REDUCE SEDIMENT INTRODUCTION TO THE AREA DRAIN SYSTEM. PROTECT DOWNSTREAM INLETS USING DI PROTECTION TYPE 3 OR 4.
WIND EROSION CONTROL		
WE-1	WIND EROSION CONTROL	WATER OR COVER MATERIAL SHALL BE USED TO ALLEVIATE DUST NUISANCE FROM ANY DISTURBED AREAS DURING CONSTRUCTION.
WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL		
WM-1	MATERIAL USE	MATERIALS FOR CONSTRUCTION SHALL BE USED IN ACCORDANCE WITH PRODUCT DIRECTIONS.
WM-2	MATERIAL DELIVERY AND STORAGE	IF MATERIALS ARE STORED ON SITE, THEY SHALL BE STORED IN ORIGINAL MARKED CONTAINERS AND COVERED FROM RAIN AND WIND.
WM-3	STOCKPILE MANAGEMENT	STOCKPILES OF SOIL OR OTHER LOOSE MATERIAL SHALL BE COVERED (i.e. USING PLASTIC SHEETING) TO ELIMINATE TRANSPORT VIA WIND OR STORM RUNOFF.
WM-4	SPILL PREVENTION AND CONTROL	AMPLE CLEAN-UP SUPPLIES FOR STORED MATERIALS SHALL BE KEPT ON-SITE. EMPLOYEES SHALL BE EDUCATED ON THE CLASSIFICATIONS OF SPILLS AND APPROPRIATE RESPONSES.
WM-5	SOLID WASTE MANAGEMENT	SOLID WASTE FROM CONSTRUCTION ACTIVITIES SHALL BE STORED IN APPROPRIATE CONTAINERS. FULL CONTAINERS SHALL BE DISPOSED OF PROPERLY.
WM-8	CONCRETE WASTE MANAGEMENT	AN ON-SITE CONCRETE WASHOUT AREA SHALL, BE CONSTRUCTED, USED, AND DISPOSED OF IN A MANNER WHICH MEETS THE REQUIREMENTS OF THE CITY.
WM-9	SANITARY/SEPTIC WASTE MANAGEMENT	ON-SITE FACILITIES SHALL BE PROVIDED AND MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT.
NON-STORMWATER MANAGEMENT		
NS-1	WATER CONSERVATION PRACTICES	MAINTAIN EQUIPMENT TO PREVENT UNINTENDED NON-STORMWATER DISCHARGES.
NS-3	PAVING AND GRINDING OPERATIONS	APPLY PERIMETER CONTROLS AND VACUUMING TO PREVENT NON-STORMWATER DISCHARGES.
NS-7	POTABLE WATER / IRRIGATION	EXERCISE CARE DURING CONSTRUCTION TO PREVENT UNINTENDED NON-STORMWATER DISCHARGES.
NS-12	CONCRETE CURING	APPLIES TO ALL CONCRETE CONSTRUCTION.
NS-13	CONCRETE FINISHING	APPLIES TO ALL CONCRETE CONSTRUCTION.

PREPARED BY:
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ADAM L. TOAL R.C.E. 59275 DATE 10-7-24

REGISTERED PROFESSIONAL ENGINEER ADAM TOAL No. 59275 CIVIL STATE OF CALIFORNIA

B.M.: L.A. COUNTY BENCHMARK RY3551
ELEV. 46.686
BASE B, 2013 ADJ.

REVISIONS

NO.	DESCRIPTION	DATE	APPROVED

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS – ENGINEERING

DRAINAGE PLAN
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
13220 VAN NESS AVENUE, GARDENA, CA

	INITAL	DATE
DESIGNED BY	A.L.T.	10/07/24
DRAWN BY	A.L.T.	10/07/24
CHECKED BY	C.R.	10/07/24

APPROVED BY: Allan Rigg 11/12/2024
DATE DIRECTOR OF PUBLIC WORKS

SHT. 4 OF 12 DWG. NO. 5-2616

PRINT DATE: Oct 07, 2024 - 2:28pm

FILE PATH: N:\23100\23110 ROWLEY PARK\DRAWINGS\CIVIL\23110-DP-01-CTB.DWG, PLOT TIME: 10/7/2024 2:28:20 PM

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST CALIFORNIA CODE OF REGULATIONS (CCR), NATIONAL ELECTRICAL CODE EDITION AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
2. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE TO UL REQUIREMENTS TO ACCOMMODATE CONDUCTORS SHOWN.
3. WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF MECHANICAL, PLUMBING AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ANY WORK.
5. CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
6. LOCATION OF LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS, INSTALL SWITCHES ON SIDE OPPOSITE TO DOOR HINGE. VERIFY FINAL HINGE LOCATION IN FIELD PRIOR TO ANY WORK.
7. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
8. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, BELL/STROBES, FIRE ALARM PULL STATIONS. RECEPTACLES ETC. WITH CABINETS, FURNITURE, EQUIPMENT ETC., TO AVOID CONFLICT.
9. WHERE ELECTRIC MOTORS OR HEATERS ARE INSTALLED IN HUNG CEILINGS, PROVIDE DISCONNECT SWITCH IN HUNG CEILING WITHIN REACH FROM ACCESS POINT.
10. FURNISH APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.
11. FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
12. NOT MORE THAN THREE LIGHTING OR CONVENIENCE OUTLET CIRCUITS ARE PERMITTED IN ONE CONDUIT, PROVIDE SEPARATE CONDUIT FOR EACH HOMERUN INDICATED ON THE DRAWING, UNLESS INDICATED OTHERWISE.
13. PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULL BOX SHALL COMPLY WITH N.E.C. REQUIREMENTS.
14. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILING SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURES.
15. SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATION FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS, CONTROL TRANSFORMERS, POWER FOR CONTROL SYSTEM EP AND PE SWITCHES, TIME CLOCKS, VALVES, STATS, RELAYS, DUCT SMOKE DETECTOR LOCATIONS, ETC. INDICATED ON CONTROL WIRING DIAGRAMS. ELECTRICAL CONTRACTOR SHALL VERIFY FINAL CONTROL WIRING REQUIREMENTS WITH MECHANICAL AND PLUMBING CONTRACTORS PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY DEVICES AND CONNECTIONS AS REQUIRED.
16. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT (UP TO 16') SHALL BE WEATHERPROOF TYPE, NEMA 3R.
17. NO CONDUIT RUNS SHALL BE ALLOWED IN CONCRETE SLABS. ALL CONDUITS WILL BE PLACED ABOVE ACCESSIBLE CEILING SPACES UNLESS SPECIFICALLY INDICATED TO BE UNDERGROUND.
18. LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK-TO-BACK.
19. WHERE MORE THAN ONE LIGHT SWITCH OCCURS AT SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE GANG BOX UNDER A SINGLE COVER PLATE. PLATES WITH MORE THAN (3) LIGHT SWITCHES SHALL BE LABELED TO INDICATE THE LIGHT FIXTURES CONTROLLED.
20. DISCONNECT SWITCHES SHALL BE MOUNTED ON INDIVIDUAL SUPPORTS, OR OTHERWISE DIRECTLY ON EQUIPMENT, PROVIDED NO MODIFICATION TO EQUIPMENT IS NECESSARY.
21. ALL ELECTRICAL POWER LIGHTING, TELEPHONE OR SIGNAL WIRING IN FIRE RATED WALL IS TO BE INSTALLED IN A METALLIC CONDUIT SYSTEM.
22. ALL ELECTRIC MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT.
23. CONTACT UTILITY COMPANIES FOR SCOPE OF WORK PRIOR TO SUBMITTING BID; INCLUDE UTILITY CHARGES IF ANY.
24. ALL DISTRIBUTION AND CONTROL EQUIPMENT (SUCH AS CB's, SWITCHES, CONTACTORS, ETC.), TERMINATIONS SHALL BE FULLY RATED PER UL AS FOLLOWS:

    a. 125A OR LESS : 60°C OR MORE;
    b. MORE THAN 125A : 75°C OR MORE.
25. ANY ERRORS, OMISSIONS, OR DESIGN DISCREPANCIES ON PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER FOR CLARIFICATION OR CORRECTION PRIOR TO CONSTRUCTION AND PREPARATION OF SUBMITTAL PACKAGES.
26. CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC.(UL) LISTED, 600 VOLT INSULATION OF TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS. CONDUCTORS SHALL BE COPPER.

    1. BRANCH CIRCUITS - LIGHTING AND POWER.

    a. #10 AWG AND SMALLER, SOLID WIRE TYPE THW OR THHN/THWN, THHW(THHN FOR DRY LOCATION ONLY).
    b. #8 AWG TO #2 AWG, STRANDED TYPE THW OR THHN/THHW.
    c. #1 AWG AND LARGER, STRANDED TYPE XHHW.

    2. FEEDERS : TYPE THW OR THHN/THWN, OR XHHW.
27. PROVIDE GREEN INSULATED GROUNDING CONDUCTOR IN EACH RACEWAY INCLUDING CONDUITS, PLUG STRIPS, WIREMOLD. SIZE OF GROUNDING SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ARTICLE 250.
28. WIRING METHOD SHALL BE EMT ABOVE GROUND AND MOUNTED IN CONCEALED SPACES AND SCHEDULE-40 PVC FOR UNDERGROUND INSTALLATION. USE RIGID WHEN ENCASED IN CONCRETE OR SUSCEPTIBLE TO DAMAGE.
29. USE 10AWG CONDUCTORS FOR 20 AMPERE, 120V BRANCH CIRCUITS LONGER THAN 75 FEET.
    USE 10AWG CONDUCTORS FOR 20 AMPERE, 277V BRANCH CIRCUITS LONGER THAN 200 FEET.
30. PROVIDE 110V OUTLET, CFL LIGHT & SWITCH FOR LIGHT @ FAU IN ATTIC, WHERE APPLICABLE.
31. ALL FLUORESCENT LUMINAIRES THAT UTILIZE DOUBLE ENDED LAMPS THAT CONTAIN BALLAST(S) THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE. THE LINE SIDE TERMINALS OF THE DISCONNECTING MEANS SHALL BE GUARDED. [CEC 410.130(G)(1)].
32. ALL SWITCH LOCATIONS ARE REQUIRED TO HAVE A NEUTRAL CONDUCTOR PROVIDED AT THE SWITCH LOCATION PER CEC 404.2(C).
33. UNLESS OTHERWISE INDICATED, SHARING OF NEUTRAL/GROUNDED CONDUCTORS AMONG SINGLE PHASE BRANCH CIRCUITS OF DIFFERENT PHASES INSTALLED IN THE SAME RACEWAY IS NOT PERMITTED. PROVIDE DEDICATED NEUTRAL/GROUNDED CONDUCTOR FOR EACH INDIVIDUAL BRANCH CIRCUIT.
34. UNLESS OTHERWISE INDICATED, PROVIDE A SEPARATE SWITCHED AND UNSWITCHED PHASE CONDUCTOR TO ALL CONTROLLED RECEPTACLES REGARDLESS OF RECEPTACLE CONFIGURATION.

NOTE TO CONTRACTOR

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

ABBREVIATIONS

A	AMPERE
AF	AMPERE FRAME RATING (CIRCUIT BREAKER)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFU	AMPERE FUSE RATING (FUSE)
AIC	AMPERE INTERRUPTING CAPACITY
AS	AMPERE SWITCH RATING (FUSE)
AT	AMPERE TRIP RATING (CIRCUIT BREAKER)
AWG	AMERICAN WIRE GAUGE
BKBD	BACKBOARD
BLDG	BUILDING
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CFSD	COMBINATION FIRE SMOKE DAMPER
CO	CONDUIT ONLY
CONC	CONCRETE
CT	CURRENT TRANSFORMER
CU	COPPER
CL	CENTERLINE
DISC	DISCONNECT
DSBN	DISTRIBUTION SECTION
DN	DOWN
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EXIST, (E)	EXISTING
EXO	EXTERNAL OPERABLE DISCONNECT
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FF	FINISHED FLOOR
FG	FINISHED GRADE
FLA	FULL LOAD CURRENT
FLUOR	FLUORESCENT
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HV	HIGH VOLTAGE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED/INSULATED GROUND
INCAND	INCANDESCENT
ISC	SHORT CIRCUIT CURRENT AVAILABLE IN RMS SYMMETRICAL AMPERES
J-BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KW	KILOWATT
KV	KILO VOLT
KVA	KILO VOLT-AMPERE
LDC	LOCAL DISTRIBUTION CABINET
LDF	LOCAL DISTRIBUTION FRAME
LCL	LONG CONTINUOUS LOAD
LTG	LIGHTING
LV	LOW VOLTAGE
MFR	MANUFACTURER
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
MH	MANHOLE / METAL HALIDE
M/M	METER AND MAIN SECTION
MULTI	MULTI-METER SECTION
MV	MEDIUM VOLTAGE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NEW (N)	NEW, TO BE FURNISHED AND INSTALLED BY CONTRACTOR
NF	NON-FUSED
NIC	NOT IN CONTRACT
N/L	NIGHT LIGHT
NO	NUMBER, NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PB	PULL BOX
PF	POWER FACTOR
PNL	PANEL
POC	POINT OF CONNECTION
PP	POWER POLE
PWR	POWER
PVC	POLYVINYL CHLORIDE
QUAD	QUADRUPLEX
QTY	QUANTITY
REQD	REQUIRED
REQMT	REQUIREMENT
RGS	RIGID GALVANIZED STEEL
RMC	RIGID METALLIC CONDUIT
RM	ROOM
RNC	RIGID NONMETALLIC CONDUIT
SHT	SHEET
SN	SOLID NEUTRAL
SPEC	SPECIFICATIONS
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIME CLOCK
TEL	TELEPHONE
TERM	TERMINAL
TP	TEMPORARY POLE
TYP	TYPICAL
UGPS	UNDERGROUND PULL SECTION
UL	UNDERWRITERS LABORATORY
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
V	VOLT, VOLTAGE
VA	VOLT-AMPERE
VFC	VARIABLE FREQUENCY CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WH	WATT-HOUR
WP	WEATHERPROOF
WT	WEATHERTIGHT
WW	WIREWAY
XP	EXPLOSION PROOF
Z	IMPEDANCE
4W	FOUR-WIRE
3W	THREE-WIRE
5S	JUNCTION BOX (4 11/16" SQUARED X2 1/8" DEEP)
Ø	DIAMETER, PHASE
#	NUMBER
°C	DEGREE CELSIUS
(E)	EXISTING DEVICE TO REMAIN
(R)	REMOVE EXISTING DEVICE AND ASSOCIATED CONDUIT AND WIRE
(RL)	REMOVE EXISTING DEVICE AND RELOCATE AS SHOWN ON PLAN
(NL)	NEW LOCATION OF RELOCATED DEVICE

APPLICABLE CODES

1. 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2022 CALIFORNIA BUILDING CODE (CBC),PART 2, TITLE 24 C.C.R. (IBC WITH AMENDMENTS)
3. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (NEC WITH AMENDMENTS)
4. 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (UMC WITH AMENDMENTS)
5. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (UPC WITH AMENDMENTS)
6. 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (IFC WITH AMENDMENTS)
7. 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
8. 2022 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
9. 2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24 C.C.R.)
10. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSG), PART 11, TITLE 24 C.C.R.

POWER LEGENDS AND SYMBOLS (CON'T)

SYMBOL	DESCRIPTION
	MOLDED CASE SHUNT TRIP CIRCUIT BREAKER
	MOLDED CASE DRAW OUT TYPE CIRCUIT BREAKER
E	REMOTE CONTROLLED, ELECTRONICALLY OPERATED CIRCUIT BREAKER
	SWITCH AND FUSE ASSEMBLY
	UTILITY COMPANY PULL SECTION LUGS
	GROUNDING CONNECTION TO MAIN BUILDING GROUND SYSTEM U.O.N.
N G	GROUNDING CONNECTION AT SWITCHGEAR/DISTRIBUTION BOARD WITH NEUTRAL BONDING.
M	IN-LINE UTILITY COMPANY METER
M	UTILITY METER WITH CIRCUIT TRANSFORMERS (CT'S) METER
SS	SOLID STATE DEVICE CONNECTED TO THE POWER DISTRIBUTION SYSTEM
GFP	GROUND FAULT PROTECTION DEVICE CONNECTED TO THE POWER DISTRIBUTION SYSTEM
SPD	SURGE PROTECTION DEVICE
T OR	TRANS. "T-3" 300 KVA PRI:480V Δ SEC:208Y/120 GND. — TRANSFORMER WITH SECONDARY GROUND. REFER TO SINGLE LINE DIAGRAM FOR KVA RATING AND GROUNDING REQUIREMENTS.
G	ON-SITE GENERATOR SET
36" O.C.	STAINLESS STEEL SURFACE MOUNTED WIREMOLD MOUNTED AT 48" A.F.F. U.O.N. IF POWER AND DATA ARE SHOWN, PROVIDE WITH DUAL CHANNEL RACEWAY. WIREMOLD 4000 SERIES.
200-D	CONDUIT WIRING DESCRIPTION PER FEEDER SCHEDULE ON OTHER PLAN
200-Y	CONDUIT WIRING DESCRIPTION PER FEEDER SCHEDULE ON OTHER PLAN
PB	CONCRETE ELECTRICAL PULL BOX WITH LID APPROPRIATE FOR INSTALLATION LOCATION. LID SHALL BE LABELED "ELECTRICAL" OR "COMM" ACCORDING TO USE.

LIGHTING LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
	WALL MOUNTED LUMINAIRE
	POLE MOUNTED LUMINAIRE

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET TITLE	FILE NO.
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6	LUMINAIRE SCHEDULE	5-2616
7	ELECTRICAL SITE PLAN	5-2616
8	PHOTOMETRIC SITE PLAN	5-2616
9	ELECTRICAL SPECIFICATIONS	5-2616
10	TITLE 24 FORMS	5-2616

POWER LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
A-1	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N. SUBSCRIPT "A-1" REFERS TO PANEL DESIGNATION WITH CIRCUIT NUMBER. TYPICAL OF ALL RECEPTACLE OUTLETS.
	DOUBLE DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS, GFCI TYPE) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) WITH MOUNTING HEIGHT HORIZONTALLY ABOVE COUNTER TOP PER ARCHITECTURAL PLANS OR APPROVAL.
	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS, GFCI TYPE) WITH MOUNTING HEIGHT HORIZONTALLY ABOVE COUNTER TOP PER ARCHITECTURAL PLANS OR APPROVAL.
	CA TITLE 24 COMPLIANT DUPLEX RECEPTACLE OUTLET, HALF-CONTROLLED, CONVENIENCE, WITH PERMANENT MARKING. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	CA TITLE 24 COMPLIANT DOUBLE DUPLEX RECEPTACLE OUTLET, HALF-CONTROLLED, CONVENIENCE, WITH PERMANENT MARKING. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	SIMPLEX RECEPTACLE OUTLET, CONVENIENCE WITH (2)USB PORTS. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N. LEVITON MODEL #T5832.
WP	WEATHERPROOF DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	DUPLEX RECEPTACLE OUTLET, SINGLE SPLIT-CIRCUIT SWITCHED. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	SURFACE MOUNTED DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	RECESSED CEILING MOUNTED DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) U.O.N.
	ABOVE CEILING, CONCEALED, JUNCTION BOX, WITH COVER, PER NATIONAL ELECTRICAL CODE (NEC) TABLE 314.16(A)(B), 4" SQUARE DEEP, WITH PLASTER RING.
	RECESSED WALL MOUNTED JUNCTION BOX, WITH COVER, PER NATIONAL ELECTRICAL CODE (NEC) TABLE 314.16(A)(B), 4" SQUARE DEEP, WITH PLASTER RING.
SEE NOTE BELOW	DUPLEX RECEPTACLE, FLUSH IN FLOOR, WATERTIGHT JUNCTION BOX (HINGED BRASS COVER: 20 AMP, 120 VOLT, 2-POLE, 3-WIRE) U.O.N. DOUBLE DUPLEX RECEPTACLE, FLUSH IN FLOOR, WATERTIGHT JUNCTION BOX (20 AMP, 120 VOLT, 2-POLE, 3-WIRE) U.O.N. JUNCTION BOX, FLUSH IN FLOOR, WATERTIGHT (HINGED BRASS COVER: 20 AMP, 120 VOLT, 2-POLE, 3-WIRE) U.O.N.
	FLOOR BOX NOTE WHERE INDICATED IN AN EXISTING SLAB, PROVIDE SAWCUTTING OF SLAB AS REQUIRED AND EXTEND CONDUIT AND WIRING TO JUNCTION BOX IN NEAREST ACCESSIBLE WALL. DO NOT SAWCUT THROUGH POST TENSION SLABS.
L5-30R	SPECIALTY OUTLET. VERIFY NEMA CONFIGURATION AS NOTED ON PLANS.
OR	BRANCH PANELBOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE. (SURFACE MOUNTED)
	BRANCH PANELBOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE. (RECESSED MOUNTED)
	MAIN SWITCHBOARD, POWER OR LIGHT, FLOOR STANDING ENCLOSURE, (SEE SINGLE LINE DIAGRAM AND LOAD SUMMARY)
	DISCONNECT SWITCH H.P. RATED 600 VOLTS RATED. "F" INDICATES FUSE TYPE. FUSES PER APPROVED MANUFACTURERS SHOP DRAWINGS.
#2	MAGNETIC MOTOR STARTER H.P. RATED (NUMBER INDICATES NEMA SIZE)
+96" OR 7'-6" AFF	MOUNTING HEIGHT FROM FINISHED FLOOR TO BOTTOM LINE OF OUTLET OR EQUIPMENT. FOR LIGHT FIXTURES, IT IS TO BOTTOM OF FIXTURE.
	CONDUIT STUBBED AND CAPPED, SIZE AND QUANTITIES PER PLANS.
	CONDUIT CONCEALED IN OR UNDER FLOOR, 3/4" UON, COORDINATE WITH G.C.: OR, BURIAL CONDUIT UNDERGROUND IN SCHEDULE - 40 PVC UNLESS NOTED OTHERWISE. VERIFY DEPTH AND TRENCHING WITH G.C.
DETAIL No. SHEET No.	DETAIL REFERENCE
EQUIPMENT ID. No.	EQUIPMENT REFERENCE
PR	ELECTRICAL UTILITY PRIMARY
SC	ELECTRICAL UTILITY SECONDARY
T	UTILITY TELEPHONE
OH	TEMPORARY OVERHEAD CABLING
A-1,3	1" U.O.N HOMERUN TO CIRCUITS #1 AND #3 IN PANEL "A". (CROSSMARKS INDICATE NUMBER OF PHASES AND NEUTRAL. PROVIDE GROUND WIRE.)
	GROUND WELL
	EXISTING (DASH INDICATES) ELECTRICAL EQUIPMENT
	TELEPHONE BACKBOARD 2'X4'X3/4" PLYWOOD. PROVIDE 2" CONDUIT TO TELEPHONE POC.
	MOLDED CASE CIRCUIT BREAKER

412 E. Vanderbilt Way
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
Email: cadd@dsolgnwesteng.com

DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

REGISTERED PROFESSIONAL ENGINEER BRADLEY KENDALL 22830 EXP. 09-30-25 ELECTRICAL STATE OF CALIFORNIA

REVISIONS

NO.	DESCRIPTION	DATE	APPROVED
1	PLAN CHECK RESUBMITTAL	11-21-23	BK

B.M.: -
-

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS – ENGINEERING

ELECTRICAL LEGENDS & NOTES
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
13220 VAN NESS AVENUE, GARDENA, CA

	INITAL	DATE
DESIGNED BY	- -	
DRAWN BY	- -	
CHECKED BY	- -	

APPROVED BY: 11/12/2024 Allan Rigg
DATE DIRECTOR OF PUBLIC WORKS

SHT. 5 OF 12 DWG. NO. 5-2616

23-191

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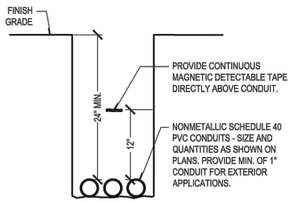
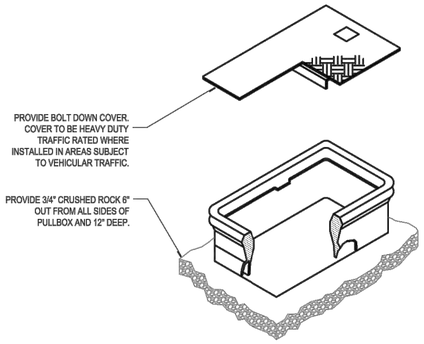


GENERAL NOTES:

1. PLACE CONDUIT IN TRENCH, FILL, AND COMPACT TO 90%. REPAIR AREA TO MATCH SURROUNDING. BACK FILL IS TO BE FREE OF LARGE ROCK, PAVING MATERIALS, ETC., THAT MAY CAUSE PHYSICAL DAMAGE TO CONDUIT. PROVIDE GRANULAR MATERIAL WITH A SAND EQUIVALENT (SE) GREATER THAN 30.
2. PROVIDE 30" MINIMUM COVER WHERE CONDUIT IS PLACED UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.
3. CONDUITS PLACED UNDER OR IN STRUCTURAL FOOTINGS SHALL BE GALVANIZED RIGID METAL (RMC) WRAPPED WITH 20 MIL PVC TAPE. THE COUPLINGS CONNECTED TO THE RMC ELBOW SHALL BE GALVANIZED MATERIAL.
4. MINIMUM TRENCH WIDTH TO BE 24".

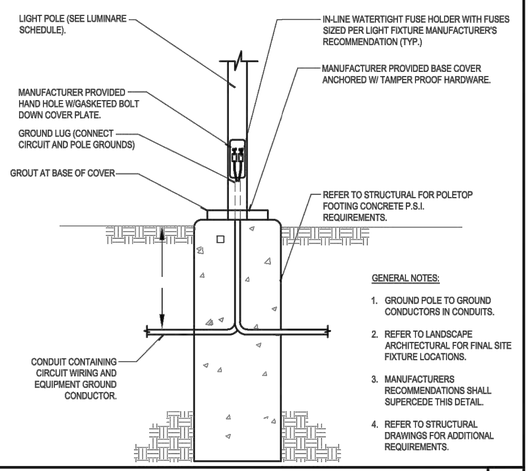
BRANCH CIRCUIT CONDUIT BURIAL | 1



GENERAL NOTES:

1. PULLBOX TO BE SIZED PER NEC, U.O.N.
2. PROVIDE COVER LABELED WITH "POWER" OR "DATA" DESIGNATION.

PULLBOX INSTALLATION | 2



GENERAL NOTES:

1. GROUND POLE TO GROUND CONDUCTORS IN CONDUITS.
2. REFER TO LANDSCAPE ARCHITECTURAL FOR FINAL SITE FIXTURE LOCATIONS.
3. MANUFACTURERS RECOMMENDATIONS SHALL SUPERCEDE THIS DETAIL.
4. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

FLUSH GRADE POLETOP LIGHTING | 3

LUMINAIRE SCHEDULE

TYPE	VOLTS	WATTAGE	LUMENS	LAMPS	MOUNTING	FIXTURE DESCRIPTION	MFR.	CATALOG #	NOTES	SYMBOL
S1	MVOLT	187	24,000	LED 4,000K	POLE MOUNTED	SLIM STYLE, TYPE FT OPTICS, POLE MOUNTED FIXTURE. MOUNT ON 20' POLE.	LSI	PXSLM-FT-24L-40-4SQ20-AB	- -	
S2	MVOLT	(2)187	24,000	LED 4,000K	POLE MOUNTED	DUAL SLIM STYLE, TYPE FT OPTICS, POLE MOUNTED FIXTURE. MOUNT ON 20' POLE.	LSI	(2)PXSLM-FT-24L-40-4SQ20-AB-180DEG	- -	
S3	MVOLT	187	24,000	LED 4,000K	POLE MOUNTED	SLIM STYLE, TYPE FT OPTICS, POLE MOUNTED FIXTURE. MOUNT ON EXISTING POLE.	LSI	PXSLM-FT-24L-40	- -	
S4	MVOLT	47	6,000	LED 4,000K	WALL MOUNTED	WALL MOUNTED LED FIXTURE WITH 0-10V DIMMING AND PHOTOCELL-SENSOR CONTROL.	LSI	SMW-LED-8L-3-UNV-DIM-40-BRZ-PCIUNV	- -	
S5	MVOLT	39	6,000	LED 4,000K	POLE MOUNTED	SLIM STYLE, TYPE 5W OPTICS, POLE MOUNTED FIXTURE. MOUNT ON 20' POLE. W/ MOTION AND PHOTOCELL-SENSOR CONTROL.	LSI	MRS-LED-8L-SIL-5W-UNV-DIM-40-70CRI-INSBT1-** -4SQ20-AB	- -	

1

1. EQUALS SHALL BE CONSIDERED UPON SUBMITTAL REVIEW AND APPROVAL. PLEASE NOTE THAT IF AN ALTERNATE IS CONSIDERED:
   a. THE CONTRACTOR IS COMPLETELY AND SOLELY RESPONSIBLE FOR ALL ASPECTS OF THE SUBSTITUTION INCLUDING UPDATING CONSTRUCTION DOCUMENTS, OBTAINING APPROVALS AND PERMITS FROM LOCAL AUTHORITY, AND COORDINATING WITH ALL TRADES TO ENSURE CHANGES TO AFFECTED BUILDING SYSTEM ARE ACCOUNTED FOR AND ACCEPTABLE TO THE ENGINEERING TEAM. CONTRACTOR SHALL ENSURE SUBSTITUTED EQUIPMENT MEETS OR EXCEEDS DESIGN INTENT REGARDING RATINGS, PERFORMANCE, DIMENSIONAL CLEARANCES, PHYSICAL DIMENSIONS (MAX/MIN), WEIGHT LIMITATIONS, AND OTHER ASPECTS, PROVING SUBSTITUTION IS SUITABLE TO THE APPLICATION. ENGINEERS WILL REVIEW THE RATING AND PERFORMANCE OF SUBSTITUTED EQUIPMENT ONLY AND WILL NOT ASSUME RESPONSIBILITY FOR SUBSTITUTION AT ANY LEVEL.
   b. IF CONTRACTOR CANNOT MAKE SUBSTITUTED EQUIPMENT WORK IN THIS PROJECT, CONTRACTOR SHALL REVERT TO REQUIREMENTS OF PERMITTED CONSTRUCTION DOCUMENTS AT THEIR EXPENSE.
   c. IT IS UNDERSTOOD BY ALL PARTIES THAT ANY SUBSTITUTIONS OF SPECIFIED PRODUCTS ARE DONE FOR THE PURPOSE OF COST SAVINGS TO THE OWNER. THEREFORE, ANY MATERIAL SUBSTITUTION OR DEVIATIONS PROPOSED BY THE CONTRACTOR SHALL BE INCLUDED WITH THE INITIAL BID AND SHALL SHOW A LINE ITEMS CREDIT TO THE OWNER FOR EACH SUBSTITUTION IN LIEU OF SPECIFIED PRODUCTS.
   d. CONTRACTOR SHALL PROVIDE A POINT BY POINT PHOTOMETRIC STUDY FOR ALL AREAS WHERE ALTERNATE FIXTURES ARE SUBMITTED. LIGHT LEVELS WILL BE REVIEWED FOR COMPLIANCE WITH PROJECT REQUIREMENTS AND BASIS OF DESIGN VALUES.
2. THE FIXTURE SCHEDULE INDICATES GENERAL DESCRIPTION OF LIGHTING FIXTURES AND MANUFACTURERS CATALOG NUMBERS.
3. PROVIDE ALL REQUIRED MOUNTING HARDWARE ANCHORAGE AND SUPPORTS TO INSTALL LIGHTING FIXTURES.
4. LED LIGHT FIXTURES SHALL BE IN ACCORDANCE WITH IES, NFPA, UL, AS SHOWN ON THE DRAWINGS, AND AS SPECIFIED.

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REGISTERED PROFESSIONAL ENGINEER BRADEN KENNEDY 22835 EXP. 09-30-25 ELECTRICAL STATE OF CALIFORNIA

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S.L.: _

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1	PLAN CHECK RESUBMITTAL	11-21-23	BK

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS – ENGINEERING

LUMINAIRE SCHEDULE
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
13220 VAN NESS AVENUE, GARDENA, CA

	INITAL	DATE
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SHT. 6 OF 12 | DWG. NO. 5-2616

23-191

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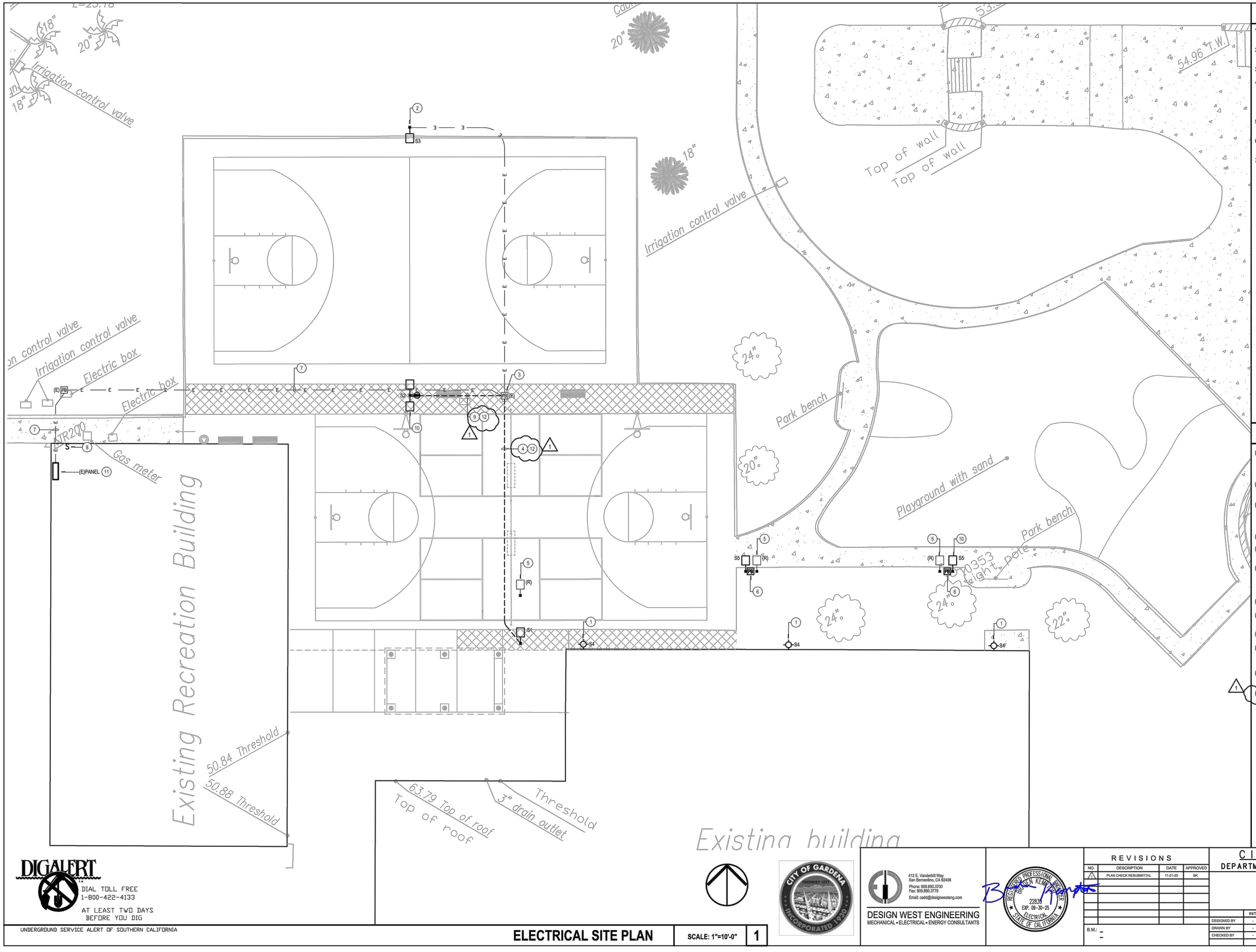

GENERAL NOTES

1. THE CONTRACTOR SHALL INSPECT AND VERIFY ALL FIELD CONDITIONS PRIOR TO START OR WORK.
2. COORDINATE TRENCH ROUTING AND EQUIPMENT LOCATIONS WITH EXISTING CONDITIONS AND NEW WORK.
3. ALL SITE BRANCH CIRCUIT WIRING SHALL BE #10 AWG. OR LARGER.
4. CONTRACTOR SHALL UTILIZE 'GPR' GROUND PENETRATING RADAR TO SURVEY AND TRACE ALL EXISTING UNDERGROUND UTILITY LINES IN AREAS WHERE NEW TRENCHING IS PLANNED. CONTRACTOR TO SUBMIT "GPR" REPORT TO PROJECT MANAGER FOR REVIEWING PRIOR TO TRENCHING.
5. ALL SITE UNDERGROUND CONDUIT TO BE 1" MIN. UNLESS OTHERWISE NOTED.
6. SUPPORT CONDUIT(S) EVERY 10'-0" AND WITHIN 3'-0" OF ANY JUNCTION BOX OR TERMINATION.
7. ALL EXTERIOR EQUIPMENT SHALL BE NEMA 3R RATED.

CONSTRUCTION NOTES

1. EXISTING WALL PACKS TO BE REMOVED AND NEW INSTALLED IN SAME LOCATION. CONTRACTOR IS TO REUSE EXISTING CIRCUIT. PROVIDE ALL REQUIRED MOUNTING EQUIPMENT NEEDED. REPAIR WALL TO MATCH EXISTING CONDITION.
2. EXISTING FIXTURES TO BE DEMOLISHED AND NEW FIXTURE INSTALLED ON POLE. REUSE EXISTING CIRCUIT.
3. EXISTING PULLBOX WITH LIGHTING CIRCUIT. CONTRACTOR IS TO SPLICE NEW CONDUCTORS AS SHOWN AND RUN CIRCUIT TO NEW POLE/FIXTURES. ALL SPLICES ARE TO BE MADE WATER TIGHT PER CEC REQUIREMENTS.
4. PROVIDE: (2)#10 (1)#10G 2"C
5. CONTRACTOR IS TO DEMO EXISTING POLE, FOOTING AND FIXTURE AT THIS LOCATION. PROTECT IN PLACE EXITING BRANCH CIRCUIT.
6. CONTRACTOR IS TO PROVIDE NEW FOOTING, POLE AND FIXTURE AS SHOWN. PROVIDE PULLBOX AT CIRCUIT STUB UP AND EXTEND CIRCUIT TO NEW LIGHTING STANDARD. CONDUIT AND CONDUCTORS TO MATCH EXISTING.
7. PROVIDE: (2)#10 (1)#10G EXISTING CONDUIT.
8. ROUTE CIRCUIT THRU NEW SNAP SWITCH FOR CONTROL OF OUTLET ON POLE.
9. PROVIDE: (2)#10 (1)#10G (LIGHTING), (2)#10 (1)#10G (RECEPTACLE) 2"C
10. CONTRACTOR IS TO PROVIDE GFCI OUTLET WITH WEATHERPROOF COVER IN HANDHOLE OF POLE. CONTRACTOR IS TO ORDER POLE WITH ALL HARDWARE REQUIRED TO INSTALL OUTLET.
11. PROVIDE 20A/1P CIRCUIT BREAKER IN EXISTING PANEL FOR OUTLET. TYPE AND AIC RATING TO MATCH EXISTING.
12. PROVIDE TRENCHING PER DETAIL # 1 ON SHEET # 6 AS REQUIRED.

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ELECTRICAL SITE PLAN | SCALE: 1"=10'-0" | 1

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S.B.M.: –

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CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS – ENGINEERING

ELECTRICAL SITE PLAN
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
13220 VAN NESS AVENUE, GARDENA, CA

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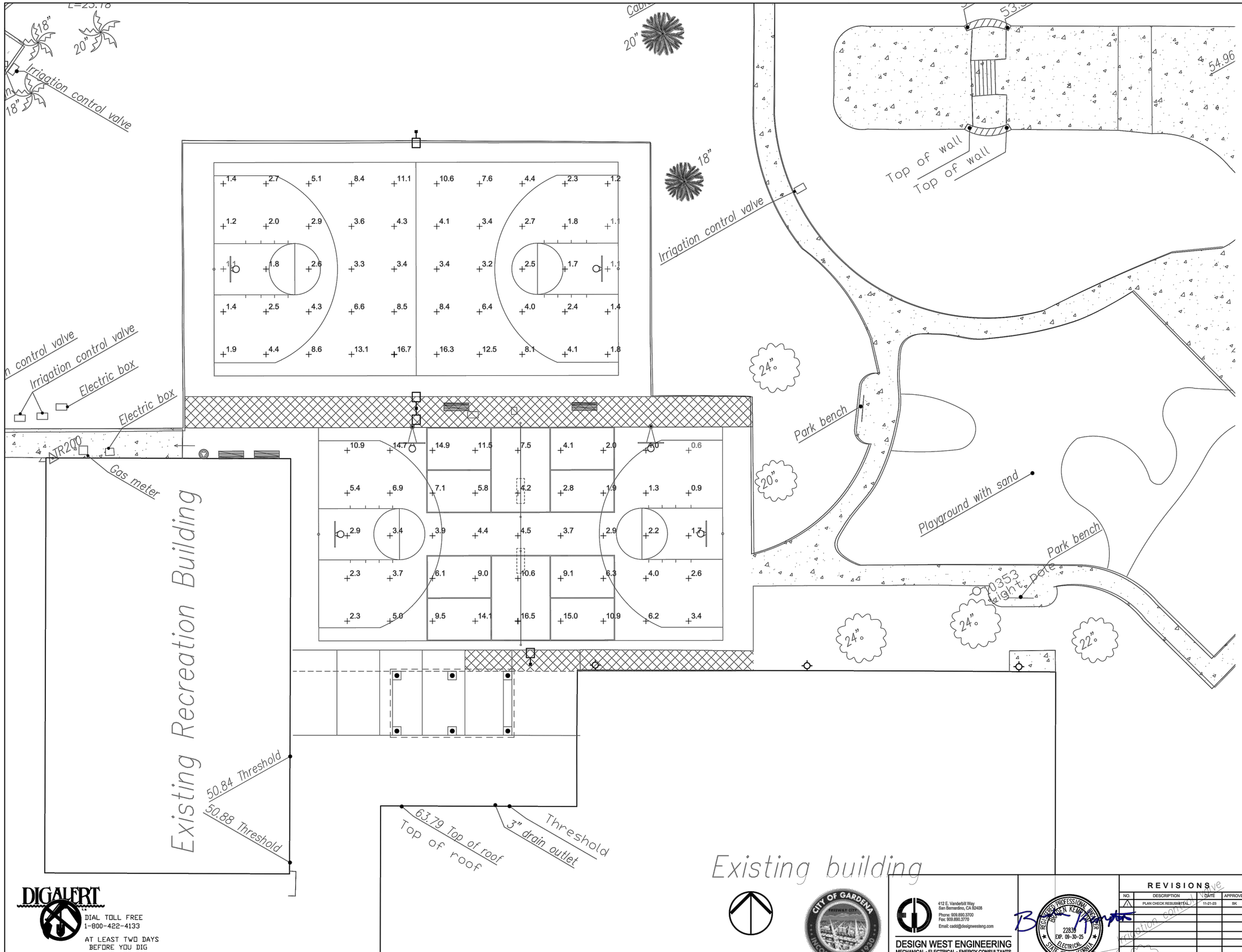

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
BASKETBALL #2	+	6.0 fc	16.5 fc	0.6 fc	27.5:1	10.0:1
BASKETBALL #1	+	4.8 fc	16.7 fc	1.1 fc	15.2:1	4.4:1

Luminaire Schedule				
Symbol	Label	QTY	Manufacturer	Lamp
	S1	4	LSI INDUSTRIES, INC.	24119
	S4	3	LSI INDUSTRIES, INC.	5930

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PHOTOMETRIC SITE PLAN | SCALE: 1"=10'-0" | 1

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REGISTERED PROFESSIONAL ENGINEER BRANDEN KEMPER 22839 EXP. 09-30-25 ELECTRICAL STATE OF CALIFORNIA

Irrigation control valve

REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED
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CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS – ENGINEERING
PHOTOMETRIC SITE PLAN
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
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DATE DIRECTOR OF PUBLIC WORKS
SHT. 8 OF 12 DWG. NO. 5-2616

23-191

PART 1 GENERAL

1.01 SCOPE OF WORK

A. WORK COVERED BY THIS SECTION CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES, AND MATERIALS, UNLESS OTHERWISE SPECIFIED, AND IN PERFORMING ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF A COMPLETE AND OPERABLE ELECTRICAL SYSTEM AS REQUIRED BY THESE SPECIFICATIONS AND AS INDICATED ON THE DRAWINGS.

B. THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS IN A MANNER TO BE FULLY COGNIZANT OF ALL WORK REQUIRED UNDER THIS SECTION.

C. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS UNLESS OTHERWISE ARRANGED AND SCHEDULE ALL REQUIRED INSPECTIONS FOR THE EXECUTION OF THE WORK UNDER THIS CONTRACT.

1.02 GENERAL REQUIREMENTS

A. WORK DONE UNDER THIS SECTION SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE, NEC (NATIONAL ELECTRICAL CODE), THE STATE OF CALIFORNIA TITLE 24, THE STATE BUILDING STANDARDS, (OSHA) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, AND TO ANY APPLICABLE LOCAL JURISDICTIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN REQUIREMENT, THE MOST RESTRICTIVE SHALL APPLY.

1.03 ELECTRICAL CONTRACTOR'S RESPONSIBILITY

A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES.

B. BEFORE SUBMITTING THE BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FULLY ACQUAINT HIMSELF WITH EXISTING CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THE EQUIPMENT AND ASSOCIATED WIRING IN SUCH A MANNER AS TO CONFORM WITH THE EXISTING STRUCTURE OF THE BUILDING, AVOID OBSTRUCTIONS, AND MEET APPLICABLE CODE REQUIREMENTS.

C. THE INTENT OF THESE DRAWINGS IS TO DESCRIBE A COMPLETE AND OPERABLE SYSTEM. WHERE EXISTING CONDITIONS DIFFER FROM DRAWINGS, ADJUSTMENT SHALL BE MADE AND ALLOWANCES INCLUDED FOR ALL NECESSARY EQUIPMENT TO COMPLETE ALL PARTS OF THE DRAWINGS AND SPECIFICATIONS. BRING ANY QUESTIONS TO THE ARCHITECT OR ENGINEER'S ATTENTION PRIOR TO BIDDING.

D. WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT, DEVICES, CIRCUIT BREAKERS, ETC., ARISES ON THE DRAWING AND/OR SPECIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITION NOTED ON DRAWINGS AND/OR IN SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ENGINEER.

1.04 WORK NOT INCLUDED

A. CERTAIN LABOR, MATERIALS, OR EQUIPMENT MAY BE FURNISHED UNDER OTHER CONTRACTS BY THE OWNER. WHEN SUCH IS THE CASE, THE EXTENT, SOURCE, AND DESCRIPTION OF THESE ITEMS WILL BE INDICATED ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS. UNLESS OTHERWISE NOTED, ALL LABOR, MATERIALS AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL WORK SHALL BE PROVIDED UNDER THIS SECTION OF THESE SPECIFICATIONS.

1.05 SPECIAL REQUIREMENTS

A. THE DRAWINGS INDICATE GENERAL ARRANGEMENT OF CIRCUITS, OUTLETS, LOCATIONS OF MOTOR CONTROLLERS WITH DISCONNECTS, PANELBOARDS, CONDUIT ROUTING, AND OTHER WORK. INFORMATION SHOWN ON THE DRAWINGS IS ESSENTIALLY DIAGRAMMATIC; HOWEVER, RECIRCUITING OR RELOCATING ELECTRICAL EQUIPMENT WILL NOT BE PERMITTED WITHOUT SPECIFIC WRITTEN APPROVAL OF THE ENGINEER.

1.06 SUBMITTALS

A. AFTER AWARD OF THE CONTRACT AND BEFORE ANY MATERIALS ARE DELIVERED TO THE JOB SITE, A COMPLETE LIST OF ALL MATERIALS PROPOSED TO BE FURNISHED AND INSTALLED UNDER THIS SECTION MUST BE PROVIDED.

B. SUBMIT TO THE ENGINEER FOR APPROVAL ONE PRINT AND ONE REPRODUCIBLE OF ALL LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, CONDUIT, CONDUCTORS, PULLBOXES, AND MOTOR STARTERS. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S PRINTED INFORMATION FOR EACH OF THESE ITEMS IDENTIFIED ON THE DRAWINGS. THE INFORMATION SHALL INCLUDE, AS MINIMUM, OVERALL DIMENSIONS, WEIGHT, PHASE, VOLTAGE RATINGS, WIRING DIAGRAMS, AND NAMEPLATE DATA.

1.07 STANDARDS AND MATERIALS

A. ALL MATERIALS SHALL CONFORM WITH THE CURRENT APPLICABLE INDUSTRY STANDARDS, NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION), ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE), IPCEA (INSULATED POWER CABLE ENGINEERS ASSOCIATION), IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS), NATIONAL ELECTRICAL SAFETY CODE.

B. UNLESS OTHERWISE INDICATED, ALL MATERIALS SHALL BE UNDERWRITERS LABORATORIES LISTED AND LABELED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

C. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE ELECTRICAL MECHANICAL EFFICIENCY. DEFECTIVE AND DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL APPROVAL AND ACCEPTANCE. THE DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, STATUTES, OR ORDINANCES IN EFFECT. APPLICABLE CODES, STANDARDS, ORDINANCES, AND STATUTES TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS OR SPECIFICATIONS.

1.08 DELIVERY AND STORAGE OF MATERIALS

A. THE CONTRACTOR SHALL INVESTIGATE EACH SPACE IN THE BUILDING THROUGH WHICH EQUIPMENT MUST PASS TO REACH ITS FINAL LOCATIONS. IF NECESSARY, THE MANUFACTURER SHALL BE REQUIRED TO SHIP HIS MATERIAL IN SECTIONS, SIZED TO PERMIT PASSING THROUGH SUCH RESTRICTED AREAS IN THE BUILDING.

B. THE CONTRACTOR SHALL RETAIN IN HIS POSSESSION AND SHALL BE RESPONSIBLE FOR ALL PORTABLE AND DETACHABLE PARTS OF PORTIONS OF INSTALLATIONS SUCH AS FUSES, KEY LOCKS, ADAPTERS, BLOCKING CLIPS, AND INSERTS UNTIL FINAL COMPLETION OF WORK. THESE PARTS SHALL BE DELIVERED TO THE OWNER UPON COMPLETION OF THE WORK.

PART 2 PRODUCTS

2.01 EQUIPMENT AND MATERIALS

A. ALL MATERIALS FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, FREE FROM DEFECTS, AND SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE OF THE WORK. SHOULD ANY TROUBLE DEVELOP DURING THEIR PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS AND LABOR TO CORRECT THE TROUBLE WITHOUT ANY COST TO THE OWNER. ANY DEFECTIVE MATERIAL OR INFERIOR WORKMANSHIP NOTED AT THE TIME OF INSTALLATION SHALL BE CORRECTED IMMEDIATELY TO THE SATISFACTION OF THE OWNER.

B. ALL MAJOR EQUIPMENT COMPONENTS SHALL HAVE THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER, AND SERIAL NUMBER PERMANENTLY ATTACHED IN A CONSPICUOUS MANNER.

2.02 CONDUIT

A. PROVIDE RACEWAYS AS INDICATED ON THE DRAWINGS AND AS HEREIN SPECIFIED. CONDUITS SHALL BE RIGID STEEL "GRC" (THICK WALL) GALVANIZED; ELECTRICAL METALLIC TUBING "EMT" (THIN WALL); FLEXIBLE STEEL, GALVANIZED; LIQUID-TIGHT, FLEXIBLE STEEL CONDUIT WITH GROUND BOND; ALUMINUM CONDUIT; OR SCHEDULE 40 PVC.

B. ALL EMPTY CONDUITS (CO) SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE INDICATED ON THE DRAWING.

C. WHERE CONDUIT CROSSES AN EXPANSION JOINT, PROVIDE APPROVED FITTINGS WHICH ALLOW DEFLECTIONS EQUIVALENT TO TWICE THE MOVEMENT ALLOWED BY THE DESIGN.

2.03 CONDUCTORS

A. PROVIDE A COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEMS AS SHOWN ON THE DRAWINGS AND THEN HEREIN SPECIFIED.

B. LIGHTING AND POWER CONDUCTORS SHALL BE COPPER, 600 VOLT, TYPE THWN/THHN, NO. 12 MINIMUM UNLESS OTHERWISE NOTED.

C. CONTROL CONDUCTORS SHALL BE 600V, TYPE THWN/THHN, NO.14 MINIMUM SIZE UNLESS OTHERWISE NOTED.

2.04 FITTINGS

A. CONNECTOR, COUPLING, LOCKNUT, BUSHINGS AND CAPS USED WITH RIGID CONDUIT SHALL BE STEEL, THREADED AND GALVANIZED. BUSHINGS SHALL BE INSULATED.

B. EMT FITTINGS, CONNECTORS AND COUPLINGS SHALL BE STEEL, ZINC, OR CADMIUM PLATED, COMPRESSION TYPE, WITH INSULATED THROAT.

C. FLEXIBLE STEEL CONDUIT CONNECTORS SHALL BE TWIST-IN-TYPE WITH INSULATED THROAT. THE FINISH SHALL BE ZINC OR CADMIUM PLATING.

D. EMT CONDUIT FITTINGS SHALL BE THE COMPRESSION TYPE; SET SCREW FITTINGS SHALL NOT BE USED.

2.05 JUNCTION AND PULL BOXES

A. FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE, MACHINE SCREW SECURED COVERS.

B. FOR EXTERIOR WET LOCATIONS, BOXES SHALL BE NEMA 3R OR NEMA 4 RATED, GASKET MACHINE SCREW SECURED COVERS.

C. INGROUND PULLBOXES SHALL BE CONCRETE ELECTRICAL PULL BOX WITH LID APPROPRIATE FOR INSTALLATION LOCATION. SIZE PULLBOX PER NEC REQUIREMENTS.

D. ALL BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUITS ENTERING THE BOX AND EQUIPPED WITH PLASTER RINGS WHERE REQUIRED.

2.06 OUTLET BOXES

2.07 SWITCHES

2.08 RECEPTACLES

2.09 DEVICE PLATES

1. PROVIDE PLATES FOR ALL SWITCHES, RECEPTACLES, JUNCTION BOXES, TELEPHONE AND OTHER OUTLETS.

2. PROVIDE ENGRAVED OR ETCHED PLATES FOR ALL LOCK SWITCHES, PILOT SWITCHES, SWITCHES FROM WHICH EQUIPMENT OR CIRCUIT CONTROLLED CANNOT BE READILY SEEN, THREE OR MORE SWITCHES UNDER A COMMON PLATE AND FOR SWITCHES AS INDICATED.

3. STAINLESS STEEL PLATES SHALL BE AMERICAN IRON AND STEEL INSTITUTE (AISI) TYPE 302, WITH BEVELED EDGES, 0.040" THICK WITH SATIN SMOOTH FINISH. "SMOOTHIE," HUBBELL #97071 SERIES.

4. PLASTIC COVER PLATE SHALL BE HIGH IMPACT THERMOPLASTIC, HIGH STRENGTH, SCRATCH-RESISTANT, SMOOTH AND SELF-EXTINGUISHING, HUBBELL "PI" SERIES OR PASS & SEYMOUR RP SERIES.

5. WHERE OUTLETS ARE INDICATED TO BE WEATHERPROOF, PROVIDE AN AISI TYPE 302 STAINLESS WITH DOUBLE HINGED COVERS, PASS & SEYMOUR #WPD-8.

6. GALVANIZED STEEL PLATES SHALL BE SQUARE OR RECTANGULAR AND HOT DIPPED GALVANIZED OR SHERARDIZED, BEVELED EDGES AND 0.040" THICK. GALVANIZED STEEL PLATES SHALL BE USED IN UTILITY AREA.

7. PROVIDE PLATES EQUIPPED WITH CLOSE FITTING OPENINGS FOR THE EXACT DEVICE TO BE USED. PROVIDE PLATES FOR TELEPHONE OUTLETS EQUIPPED WITH BUSHED OPENINGS.

8. REFER TO SECTION 3.08 FOR LABELING OF PLATES.

9. COVER PLATES ON PRESSED STEEL OUTLET BOXES IN FURRED AREAS, ATTICS, ETC., OR EXPOSED IN MECHANICAL EQUIPMENT ROOMS SHALL BE OF THE SAME MATERIAL AS THE OUTLET BOX.

10. COVER PLATES IN LOCATIONS CONCEALED FROM PUBLIC VIEW SHALL HAVE THE CIRCUIT NUMBERS AND SOURCE FEED POINT HAND LABELED WITH MARKING BLACK PEN (PERMANENT MARKER). SEE SECTION 3.08 FOR LABELING.

11. PROVIDE PLASTIC COVER PLATES UNLESS NOTED OTHERWISE

2.10 PANELBOARDS

A. FURNISH AND INSTALL ALL BRANCH CIRCUIT PANELBOARDS AS HEREINAFTER SPECIFIED AND AS SHOWN ON THE DRAWINGS. PANELBOARDS SHALL BE OF THE DEAD FRONT SAFETY TYPE EQUIPPED WITH THE THERMAL MAGNETIC 40°C CIRCUIT BREAKERS.

B. CIRCUIT BREAKERS SHALL BE RATED MINIMUM 10,000 AMPS RMS SYMMETRICAL INTERRUPTING CAPACITY AND SHALL BE THE NUMBER OF POLES AND CURRENT CAPACITY AS INDICATED ON THE PANEL SCHEDULE. BRANCH CIRCUIT PANELBOARDS SHALL BE SQUARE-D OR EATON/CUTLER HAMMER WITH LUGS UL LISTED FOR USE WITH 75°C WIRE.

C. DOOR SHALL HAVE A PLASTIC COVERED DIRECTORY FRAME WITH A TYPED IDENTIFICATION CARD OR ALL CIRCUIT AND PANEL NUMBERS FOR BRANCH CIRCUIT PANELBOARDS.

D. PROVIDE NAMEPLATE FOR ALL PANELBOARDS, ENGRAVED WHITE LETTERS ON BLACK BACKGROUND INSTALL NAME PLATES ON THE TRIM ABOVE DOOR.

E. ALL WIRING SHALL BE NEATLY ARRANGED AND LACED TOGETHER.

F. ALL CIRCUIT BREAKERS USED FOR HVAC LOADS SHALL BE RATED "HACR".

G. BUS BARS SHALL BE RECTANGULAR IN CROSS SECTION CONSTRUCTED OF COPPER. NEUTRAL AND GROUND BUSES SHALL BE FULL SIZE.

2.11 EXTERIOR LIGHTING FIXTURES

A. FURNISH, INSTALL AND WIRE LIGHTING FIXTURES SCHEDULED OR INDICATED BY TYPE DESIGNATION ON THE DRAWINGS. IF TYPE DESIGNATION IS OMITTED, FIXTURES SHALL BE OF THE SAME TYPE AS SHOWN ON ELECTRICAL DRAWINGS FOR SIMILAR USAGE. VERIFY BEFORE PURCHASE AND INSTALLATION. NO ALTERNATIVE FIXTURES WILL BE ACCEPTED.

B. LOCATIONS OF FIXTURES ON ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. VERIFY LOCATION AND SPACING WITH LANDSCAPE/CIVIL DRAWINGS AND OTHER REFERENCE DATA BEFORE PURCHASING. REVIEW SITE CONDITIONS PRIOR TO INSTALLATION.

C. VERIFY ALL FINISHES WITH OWNER, REGARDLESS OF THE CATALOG PREFIXES AND SUFFIXES SHOWN, FURNISH FIXTURES WITH THE PROPER SUPPORTS AND OTHER MISCELLANEOUS APPURTENANCES OR PROPERLY COORDINATE WITH SAID FINISHES.

D. OUTDOOR FIXTURES WITH VENT HOLES SHALL HAVE WIRE MESH SCREENS IN THE VENT HOLES.

E. REPLACE BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES AT NO ADDITIONAL COST TO THE OWNER AND IN A MANNER SATISFACTORY TO THE ENGINEER.

F. LAMPS

1. LAMPS SHALL BE NEW AND OF WATTAGE AND TYPE INDICATED OR AS REQUIRED FOR THE PARTICULAR FIXTURE INSTALLED.

2. UNLESS OTHERWISE NOTED, LAMPS DESCRIBED IN FIXTURE SCHEDULE, ANSI NOMENCLATURE, MANUFACTURED BY GENERAL ELECTRIC, SYLVANIA, PHILLIPS, OR EQUAL.

3. PROVIDE FLUORESCENT LAMPS AS INDICATED ON THE DRAWINGS. ALL LINEAR FLUORESCENT LAMPS ARE TO BE INSTALLED WITH THE LABEL FACING THE SAME DIRECTION.

4. PROVIDE HIGH INTENSITY DISCHARGE (H.I.D.) LAMPS OF TYPE AND WATTAGE AS SHOWN ON THE DRAWINGS. LAMPS SHALL BE COMPATIBLE WITH FIXTURE BALLAST. MANUFACTURERS: G.E. CO., PHILLIPS, SYLVANIA, OR EQUAL.

G. FLUORESCENT BALLASTS

1. PROVIDE BALLASTS ONLY BY MANUFACTURERS PRODUCING EQUIPMENT FOR AT LEAST FOUR YEARS.

2. PROVIDE BALLASTS WITH OPERATION AT INPUT FREQUENCY OF 60 HZ.

3. PROVIDE NON-DIMMING ELECTRONIC BALLAST FOR T-8 FLUORESCENT LAMPS AS SHOWN ON DRAWING. THE BALLAST SHALL BE UL LISTED CLASS P, AND SOUND LEVEL A OR BETTER. THE BALLAST WITH LAMP OPERATING FREQUENCY BETWEEN 25 TO 35 KHZ. WITH NO FLICKERING. THE BALLAST SHALL HAVE LOWEST HARMONIC CONTENT AND TOTAL HARMONIC DISTORTION (NOT TO EXCEED 15% ON TOTAL HARMONIC AND 10% ON THIRD HARMONIC CONTENT). BALLAST SHALL BE ADVANCE MARK V OR EQUAL.

4. BALLASTS FOR EXTERIOR FIXTURES SHALL BE LOW TEMPERATURE TYPE FOR OPERATING AT +20 DEGREES F.

5. PROVIDE HIGH POWER FACTOR BALLASTS (90 PERCENT OR HIGHER) UL LISTED AND CONTAINING NO PCB. BALLAST SHALL MEET FCC RULES REPORT 18 AND IEEE 587 FOR WITHSTANDING LINE TRANSIENTS.

6. PROVIDE STEEL ENCASED, FULLY POTTED BALLASTS CAPABLE OF STARTING LAMPS AT 0 DEGREES F.

7. BALLAST SHALL MEET FOLLOWING CHARACTERISTICS:

A. BALLAST FACTOR: 80 TO 100%

B. LAMP CURRENT CREST FACTOR: LESS THAN 1.7.

C. FILAMENT VOLTAGE: 2.5 TO 3.6 VOLTS.

D. FLICKER: LESS THAN 1%.

9. PROVIDE BALLASTS WITH BUILT-IN LINE RFI SUPPRESSION AND HAVE SURGE AND TRANSIENT PROTECTED TO 6000 VOLTS.

10. PROVIDE BALLASTS WITH OPERATING TEMPERATURES NOT EXCEEDING 80 DEGREES C. AT ANY POINT ON THE CASE DURING NORMAL OPERATION.

H. HIGH INTENSITY DISCHARGE LAMP BALLASTS

1. PROVIDE HIGH INTENSITY DISCHARGE LAMP BALLASTS AS HIGH POWER FACTOR REGULATING TYPE, CONFORMING TO APPLICABLE NEMA STANDARDS. INPUT VOLTAGE AND WATTAGES ARE LISTED IN THE FIXTURE SCHEDULE.

2. MINIMUM STARTING TEMPERATURE: MINUS 20 DEGREES F.

3. PROVIDE HIGH INTENSITY DISCHARGE BALLASTS OF THE ENCAPSULATED TYPE WITH LOWEST SOUND RATING AVAILABLE.

I. POLES AND BRACKETS

1. FURNISH BOLT TEMPLATES AND POLE MOUNTING ACCESSORIES TO INSTALLER OF POLE FOUNDATION.

2. FURNISH ALL POLES, MOUNTING BRACKETS AND ARMS ASSOCIATED WITH MOUNTING POLES AND LUMINAIRES AS AN ASSEMBLY.

J. LED LIGHT FIXTURES

A. GENERAL:

1. LED LIGHT FIXTURES SHALL BE IN ACCORDANCE WITH IES, NFPA, UL, AS SHOWN ON THE DRAWINGS, AND AS SPECIFIED.
2. LED LIGHT FIXTURES SHALL BE REDUCTION OF HAZARDOUS SUBSTANCES (ROHS)-COMPLIANT.
3. LED DRIVERS SHALL INCLUDE THE FOLLOWING FEATURES UNLESS OTHERWISE INDICATED:
 a. MINIMUM EFFICIENCY: 85% AT FULL LOAD.
 b. MINIMUM OPERATING AMBIENT TEMPERATURE: -20 DEG C. (-4 DEG F.)
 c. INPUT VOLTAGE: 120 - 277V (±10%) AT 60 HZ.
 d. INTEGRAL SHORT CIRCUIT, OPEN CIRCUIT, AND OVERLOAD PROTECTION.
 e. POWER FACTOR: >=0.95.
 f. TOTAL HARMONIC DISTORTION: <=20%.
 g. COMPLY WITH FCC 47 CFR PART 15.

4. LED MODULES SHALL INCLUDE THE FOLLOWING FEATURES UNLESS OTHERWISE INDICATED:
 a. COMPLY WITH IES LM-79 AND LM-80 REQUIREMENTS.
 b. MINIMUM CRI 80 AND COLOR TEMPERATURE 4000K UNLESS OTHERWISE SPECIFIED IN LUMINAIRE SCHEDULE.
 c. MINIMUM RATED LIFE: 50,000 HOURS PER IES L70.
 d. LIGHT OUTPUT LUMENS AS INDICATED IN THE LUMINAIRE SCHEDULE.

B. LED DOWNLIGHTS:

1. HOUSING, LED DRIVER, AND LED MODULE SHALL BE PRODUCTS OF THE SAME MANUFACTURER.

C. LED TROFFERS:

1. LED DRIVERS, MODULES, AND REFLECTOR SHALL BE ACCESSIBLE, SERVICEABLE, AND REPLACEABLE FROM BELOW THE CEILING.
2. HOUSING, LED DRIVER, AND LED MODULE SHALL BE PRODUCTS OF THE SAME MANUFACTURER.

2.12 LOW VOLTAGE SWITCHGEAR

2.13 CIRCUIT AND MOTOR DISCONNECTS

A. DISCONNECT (SAFETY) SWITCHES SHALL BE FUSED, HEAVY DUTY TYPE SWITCHES MEETING NEMA SPECIFICATIONS. SWITCHES SHALL BE PROVIDED WITH REJECTION TYPE FUSE BLOCKS. PROVIDE SWITCHES WITH THE NUMBER OF POLES, THE VOLTAGE, CURRENT AND HORSEPOWER RATINGS AS REQUIRED. PROVIDE EXTERNALLY OPERABLE QUICK-MAKE, QUICK-BREAK TYPE MECHANISM WITH COVER INTERLOCK AND PADLOCKABLE IN EITHER THE OPEN OR CLOSED POSITION.

B. SWITCHES SHALL BE NEMA 3R (RAIN TIGHT ENCLOSURE) WHERE INDICATED TO BE OUTDOORS WEATHERPROOF.

C. PROVIDE NAMEPLATE INDICATING EQUIPMENT SERVED. ALL GENERAL SNAP SWITCHES OPERATING MOTOR LOADS SHALL BE HORSEPOWER RATED OR BE RATED AT LEAST 125% OF THE FULL LOAD CURRENT.

2.14 TRANSFORMERS

2.15 ELECTRICAL CONNECTIONS

A. UNLESS OTHERWISE NOTED, ALL WIRING FOR MOTORS, STARTERS, CONTROLS, AND EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. WHERE MOTORS FOR MECHANICAL EQUIPMENT ARE FURNISHED BY OTHER DIVISIONS, WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, EXCEPT WHERE WIRED INTEGRALLY WITH THE EQUIPMENT.

2.16 SUPPORTING DEVICES

A. ALL EQUIPMENT CONDUITS SHALL BE SUPPORTED, ANCHORED AND BRACED IN ACCORDANCE WITH THE MOST STRINGENT CODES AND REQUIREMENTS. COMPLY WITH CHAPTER 23 OF THE LATEST CBC (CALIFORNIA BUILDING CODE).

PART 3 EXECUTION

3.01 WORKMANSHIP AND COMPLETION OF INSTALLATION

A. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE ELECTRICAL AND MECHANICAL EFFICIENCY. DEFECTIVE AND DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL INTERPRETATIONS INCLUDED. ANY DEFICIENCY PERTAINING TO EITHER WORKMANSHIP OR MATERIALS FOUND BY THE INSPECTOR SHALL BE CORRECTED WITHOUT ADDITIONAL COST TO THE OWNER.

B. THE CONTRACTOR SHALL MAINTAIN ON JOB SITE A SET OF THE WORKING DRAWINGS WHICH SHALL BE UPDATED DAILY IN DETAIL FOR WORK ACCOMPLISHED. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE GENERAL CONTRACTOR AND ALL CHANGES AS NOTED ON THE RECORD SET OF PRINTS SHALL BE INCORPORATED THEREON WITH RED INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER.

C. ALL EQUIPMENT AND MATERIAL CONNECTED WITH THIS PROJECT SHALL BE INSTALLED COMPLETE, THOROUGHLY CLEANED, AND ALL RESIDUE REMOVED FROM INSIDE SURFACES. EXTERIOR SURFACES OF ALL MATERIAL AND EQUIPMENT SHALL BE CLEANED AND DELIVERED IN A PERFECT, UNBLEMISHED CONDITION.

D. UPON COMPLETION OF THE INSTALLATION AND AS A CONDITION OF ITS ACCEPTANCE FURNISH ONE COPY OF THE FINAL INSPECTION CERTIFICATE TO THE OWNER.

3.02 PREPARATION COORDINATION.

A. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH ALL OTHER CONTRACTORS FURNISHING LABOR, MATERIALS AND WORK, SO THAT THE WORK AS WHOLE SHALL BE EXECUTED AND COMPLETED WITHOUT CONFLICT OR DELAY.

B. EXAMINE THE DRAWINGS AND SPECIFICATIONS AND DETERMINE THE WORK TO BE PERFORMED BY THE ELECTRICAL, MECHANICAL AND OTHER TRADES. PROVIDE THE TYPE AND AMOUNT OF ELECTRICAL MATERIALS AND EQUIPMENT NECESSARY TO PLACE THIS WORK IN PROPER OPERATION, COMPLETELY WIRED TESTED AND READY FOR USE. THIS SHALL INCLUDE ALL CONDUIT, WIRE, DISCONNECTS, RELAYS, AND OTHER DEVICES FOR THE REQUIRED OPERATION SEQUENCE OF ALL ELECTRICAL, MECHANICAL, AND OTHER SYSTEMS OR EQUIPMENT.

C. PERFORM ALL WORK IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO THE OCCUPANTS, NOR INTERFERE WITH THE ACTIVITIES IN THE BUILDING.

D. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE EACH POWER INTERRUPTION WITH OWNER, AND SHALL PROVIDE AT LEAST TWO WEEKS NOTICE OF PROPOSED INTERRUPTION AND WORK TO BE ACCOMPLISHED.

3.03 TRENCHING AND BACKFILLING

A. PERFORM ALL SUCH TRENCHING AND BACKFILLING IN ACCORDANCE WITH DRAWING DETAILS.

3.04 CORE CUTTING, DRILLING, AND PATCHING

A. NO HOLES WILL BE ALLOWED IN ANY STRUCTURAL MEMBERS WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER AND GENERAL CONTRACTOR.

3.05 INSTALLATION

A. WORKMANSHIP IS TO BE NEAT, BY EXPERIENCED WORKMEN WITH ADEQUATE SUPERVISION, AND IN LINE WITH NORMAL INDUSTRY WORK PRACTICES.

B. MAINTAIN WORKING CLEARANCE AROUND ELECTRICAL EQUIPMENT, IN ACCORDANCE WITH CODE REQUIREMENTS AS A MINIMUM.

C. ALL CONDUIT TO BE RUN CONCEALED UNLESS OTHERWISE NOTED. ALL CONDUITS SHALL BE ROUTED OVERHEAD IN CEILING SPACES. NO CONDUITS SHALL BE PERMITTED IN CONCRETE SLAB, MASONRY WALLS UNLESS SPECIFICALLY SO INDICATED. CONDUIT SHALL BE RUN SO AS NOT TO INTERFERE WITH OTHER PIPING FIXTURES OR EQUIPMENT.

D. WHERE ALLOWED, EXPOSED CONDUIT RUNS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS, OR INTERSECTION OF VERTICAL PLANES AND CEILINGS.

E. INSTALL PRODUCTS ACCORDING TO MANUFACTURERS INSTRUCTIONS.

F. ALL ROTATING ELECTRICAL EQUIPMENT SHALL BE SUPPLIED WITH A FLEXIBLE, LIQUID-TIGHT CONDUIT WITH APPROPRIATE SLACK AND SHALL NOT EXCEED THIRTY-SIX (36) INCHES.

G. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT.

H. INSTALL ACCESSORIES FURNISHED WITH EACH LUMINAIRE.

I. PROVIDE CONCRETE BASES FOR LIGHTING POLES..

J. INSTALL POLES AND PLUMB.
1. PROVIDE SHIMS TO ADJUST PLUMB.
2. GROUT AROUND EACH BASE.

K. INSTALL LAMPS IN EACH LUMINAIRE.

L. BOND LUMINAIRES METAL ACCESSORIES AND METAL POLES TO BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTORS.

3.06 GROUNDING

A. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AS INDICATED ON DRAWINGS AND AS REQUIRED BY THE LATEST EDITION OF APPLICABLE CODES.

B. FURNISH AND INSTALL ALL GROUNDING CONDUCTORS, CONDUIT AND CLAMPS. THE SIZE OF THE GROUNDING CONDUCTORS SHALL BE NOT LESS THAN THAT SPECIFIED IN THE NEC.

C. BUILDING GROUNDING SYSTEM RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS.

D. EACH BRANCH CIRCUIT SHALL BE EQUIPPED WITH CODE SIZE GREEN GROUND, EQUIPMENT WIRE (PER NEC 250-95) (NOT INDICATED ON DRAWINGS) WITHIN THE SAME CONDUIT FOR ALL CIRCUITS OF PANELBOARDS.

3.07 BRANCH CIRCUITS

A. NO MORE THAN THREE BRANCH CIRCUITS PERMITTED IN ONE CONDUIT UNLESS INDICATED OTHERWISE

3.08 IDENTIFICATION

A. THE FOLLOWING ITEMS SHALL BE EQUIPPED WITH NAMEPLATES:

1. ALL MOTORS, MOTOR STARTERS, CONTROL PANELS, MOTORS CONTROL REMOTE STATIONS.

2. ALL DISCONNECT AND SAFETY SWITCHES, MAIN DISTRIBUTION PANEL FEEDER OVERCURRENT DEVICES AND SPARES, CIRCUIT EQUIPMENT IN SEPARATE ENCLOSURES.

3. SPECIAL ELECTRICAL SYSTEMS SHALL BE PROPERLY IDENTIFIED AT JUNCTION AND PULL BOXES

4. ALL BRANCH CIRCUIT PANEL BOARDS SHALL HAVE IDENTIFYING ENGRAVED PLASTIC NAMEPLATES. ALSO, PROVIDE A TYPED DIRECTORY CARD FOR EACH BRANCH CIRCUIT PANELBOARD. THE CARD IS TO BE PLACED ON THE INTERIOR SIDE OF THE PANELBOARD DOOR BEHIND A CLEAR PLASTIC SHIELD. THE CARD SHALL IDENTIFY EACH CIRCUIT BY NUMBER, LOAD, AND LOCATION.

5. IN GENERAL, EQUIPMENT SHALL BE IDENTIFIED AS DESIGNATED ON THE ELECTRICAL DRAWINGS. NAMEPLATES FOR PANELBOARDS AND SWITCHBOARDS SHALL INCLUDE THE PANEL DESIGNATION, VOLTAGE AND PHASE OF THE SUPPLY. THE NAME OF THE MACHINE SHALL BE THE SAME AS THE NAME USED ON ALL MOTOR STARTERS, DISCONNECTS, AND P.B STATION NAMEPLATES FOR THAT MACHINE.

B. NAMEPLATES SHALL BE FABRICATED AS FOLLOWS:

1. NAMEPLATE MATERIALS SHALL CONSIST OF 3-PLY, 1/16" LAMINATED PLASTIC WITH WHITE CORE FOR LETTERING AND BLACK BACKGROUND.

2. CAPITAL LETTERS SHALL BE USED.

3. NAMEPLATES SHALL BE FASTENED WITH CADMIUM-PLATED SELF-TAPPING NO. 6 SCREWS 1/4" LONG

4. THE MINIMUM SIZE OF ALL NAME PLATES AND LETTERING SHALL BE 3/4" HIGH BY 2" LONG WITH 1/4" LETTERS.

3.09 PROTECTION

A. USE ALL MEANS NECESSARY TO PROTECT THE WORK AND MATERIALS FROM LOSS DURING AND AFTER INSTALLATION, AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK. PROVIDE FOR THE SAFETY AND GOOD CONDITION OF ALL WORK UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER. REPLACE ALL DAMAGE OR DEFECTIVE WORK, MATERIAL, AND EQUIPMENT AT NO EXPENSE TO THE OWNER BEFORE REQUESTING FINAL ACCEPTANCE.

3.10 CLEANING OF EQUIPMENT, MATERIAL, AND PREMISES

A. SITE SHALL BE LEFT BROOM CLEAN AFTER COMPLETION OF WORK EACH DAY. UPON COMPLETION OF THE WORK, LEAVE THE PREMISES CLEAN OF ALL DIRT AND DEBRIS.

B. ALL EQUIPMENT AND MATERIAL CONNECTED WITH THIS PROJECT SHALL BE INSTALLED COMPLETE, THOROUGHLY CLEANED, AND ALL RESIDUE REMOVED FROM INSIDE SURFACES. EXTERIOR SURFACES OF ALL MATERIAL AND EQUIPMENT SHALL BE CLEANED AND DELIVERED IN A PERFECT, UNBLEMISHED CONDITION.

3.11 HANDLING OF WIRE AND CABLE

A. HANDLE WIRE AND CABLE SO AS TO AVOID DAMAGE TO CONDUCTORS AND TAKE EVERY PRECAUTION TO AVOID SHARP BENDING OR SCORING OF THE CABLE. CABLE SHALL NOT BE LAID NOR DRAGGED UPON THE GROUND.

B. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND REPLACE AT HIS OWN EXPENSE ALL WIRE AND CABLE DAMAGED DUE TO IMPROPER HANDLING, AND SHALL PAY FOR THE NEW WIRE OR CABLE.

3.12 TESTING AND INSPECTIONS

A. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS FOR THE EXECUTION OF THE WORK UNDER THIS CONTRACT.

B. THE CONTRACTOR SHALL REPLACE ALL DAMAGED OR DEFECTIVE EQUIPMENT OR WORK.

C. ALL CIRCUITS SHALL BE TESTED FOR CONTINUITY AND CIRCUIT INTEGRITY BY THE CONTRACTOR. ADJUSTMENTS SHALL BE MADE FOR CIRCUITS NOT COMPLYING WITH TESTING CRITERIA.

D. THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND PERFORM ANY ADDITIONAL TESTS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL ALSO CORRECT ALL FAILURES AND REPLACE ANY DAMAGED PORTIONS OF THE WORK RESULTING FROM THOSE TESTS. THE COST OF THE FOREGOING ITEMS SHALL BE PAID BY THE CONTRACTOR.

E. THE CONTRACTOR SHALL FURNISH THE OWNER CERTIFICATES OF INSPECTION AND APPROVAL BY THE ELECTRICAL INSPECTION AUTHORITY ON ALL WORK COMPETED AS REQUIRED.

F. TITLE 24 REQUIRES THE COMPLETION OF ALL APPLICABLE CERTIFICATES OF INSTALLATION AND CERTIFICATES OF ACCEPTANCE FOR LIGHTING SYSTEMS. THIS SHALL INCLUDE INDOOR AND OUTDOOR LIGHTING SYSTEMS.

G. CONTRACT DRAWINGS AND SPECIFICATIONS, GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS, ELECTRICAL PROVISIONS AND DIVISION-1 SPECIFICATION SECTIONS APPLY TO WORK OF THIS SECTION.

H. COMPLETE ALL TITLE 24 REQUIRED CERTIFICATE(S) OF INSTALLATION (NRCI) AND CERTIFICATE(S) OF ACCEPTANCE (NRCA) TO BE COMPLETED PER THE CONTRACT DOCUMENTS.

I. RESPONSIBILITIES OF INSTALLING CONTRACTORS
A.A. GENERAL CONTRACTOR (GC)
 a. ENSURE THAT ALL CONTRACTORS IDENTIFIED AS THE CONTRACTOR RESPONSIBLE FOR ACCEPTANCE TESTING AND COMPLETION OF THE TITLE 24 CERTIFICATE(S) OF ACCEPTANCE ARE CERTIFIED BY THE STATE OF CALIFORNIA OR ITS DESIGNATED BODY TO CONDUCT EACH RESPECTIVE TEST.
A.A. ELECTRICAL CONTRACTOR (EC)
 a. VERIFY PROPER INSTALLATION AND PERFORMANCE OF ALL ELECTRICAL SERVICES PROVIDED.
 b. COMPLETE TITLE 24 CERTIFICATE(S) OF INSTALLATION AND MANUFACTURER'S PRE-START CHECKLISTS PRIOR TO SCHEDULING STARTUP/PROGRAMMING OF LIGHTING CONTROL EQUIPMENT.
 i. RETAIN CERTIFICATE(S) OF INSTALLATION IN A 3-RING BINDER IN AN ORGANIZED FASHION. BINDER IS TO REMAIN ON THE JOB SITE
 ii. MAKE CERTIFICATE(S) OF INSTALLATION AVAILABLE FOR BUILDING INSPECTOR'S REVIEW.
 iii. RETAIN CALIBRATION RECORDS FOR EQUIPMENT PROVIDED WITH MANUFACTURER CALIBRATED SENSORS IN THE CERTIFICATE(S) OF INSTALLATION BINDER.
 iv. CORRECT LABELING OF ALL CIRCUITS WITH CONNECTED EQUIPMENT.
 c. COMPLETE THE CERTIFICATE(S) OF ACCEPTANCE PER THE CONTRACT DOCUMENTS.
 i. THE COMPANY INSTALLING THE LIGHTING SYSTEMS MUST BE AN AUTHORIZED LIGHTING CONTROLS ACCEPTANCE TEST EMPLOYER CERTIFIED BY A LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN CERTIFICATION PROVIDER OR INCLUDE IN THEIR BID THE COST OF RETAINING AND OVERSEEING A CONTRACTOR WHO IS AN AUTHORIZED LIGHTING CONTROLS ACCEPTANCE TEST EMPLOYER TO COMPLETE THE ACCEPTANCE TESTING.
 ii. ALL REQUIRED ACCEPTANCE TESTING MUST BE COMPLETED BY A LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN EMPLOYED BY THE LIGHTING CONTROLS ACCEPTANCE TEST EMPLOYER.
 iii. RETAIN CERTIFICATE(S) OF ACCEPTANCE IN A 3-RING BINDER IN AN ORGANIZED FASHION. BINDER IS TO REMAIN ON THE JOB SITE
 iv. UPLOAD ALL CERTIFICATE(S) OF ACCEPTANCE TO THE CALIFORNIA TITLE 24 CERTIFICATES OF ACCEPTANCE DATABASE, IF, AT THE TIME OF PROJECT COMPLETION, THE DATABASE IS AVAILABLE TO THE PUBLIC.
 d. SUCCESSFUL COMPLETION OF THE REQUIRED ACCEPTANCE TESTS IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. ANY COSTS ASSOCIATED WITH MODIFICATIONS NECESSARY TO OBTAIN COMPLIANCE AND RE-TESTING OF SYSTEMS SHALL BE INCLUDED IN THE BASE BID OF THIS PROJECT.

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REVISIONS

NO.	DESCRIPTION	DATE	APPROVED
1	PLAN CHECK RESUBMITTAL	11-21-23	BK

B.M.:

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS - ENGINEERING

ELECTRICAL SPECIFICATIONS
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
13220 VAN NESS AVENUE, GARDENA, CA

	INITAL	DATE
DESIGNED BY	-	
DRAWN BY	-	
CHECKED BY	-	

APPROVED BY: 11/12/2024 Allan Rigg
DATE — DIRECTOR OF PUBLIC WORKS

SHT. 9 OF 12 DWG. NO. 5-2616

23-191

FILE PATH: R:_PROJECT\2023\23-191 ROWLEY PARK_CAD\23-191 E-SPECS.DWG
PLOT TIME: 11/30/2023 3:13:15 PM

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: Rowley Park	**Report Page:** (Page 1 of 7)
Project Address: 13220 Van Ness Ave	**Date Prepared:** 11/21/2023

A. GENERAL INFORMATION

01	Project Location (city)	Gardena		
02	Climate Zone	8	04 Total Illuminated Hardscape Area (ft²)	4180
03	Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ):			
☐ LZ-0: Very Low - Undeveloped Parkland	☒ LZ-2: Moderate - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval		
☐ LZ-1: Low - Rural Areas	☐ LZ-3: Moderately High - Urban Areas			
05	Occupancy Types within Project			
● All Other Occupancies				

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02	
☐ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6	
☒ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	◉ Yes ○ No
03	04	05
% of Existing Luminaires Being Altered[1]	Sum Total of Luminaires Being Added or Altered	Calculation Method
☐ < 10% ☐ >= 10% and < 50% ☐ >= 50%	0	

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Rowley Park	**Report Page:** (Page 2 of 7)
	Date Prepared: 11/21/2023

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv													Compliance Results		
01		02		03	04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
336	+	---	+	---	+	---	+	---	OR	---	=	336	≥	219	COMPLIES
Shielding Compliance (See Table G for Details)															N/A
Controls Compliance (See Table H for Details)															COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Rowley Park	**Report Page:** (Page 3 of 7)
	Date Prepared: 11/21/2023

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total Number Luminaires[2]	Luminaire Status[3]	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
S4	LED Wall Pack	☐ Linear	47	Mfr. Spec	3	New	☐	141	NA: < 6200 lumens	☐	☐
S5	LED Post Top	☐ Linear	39	Mfr. Spec	2	New	☐	78	NA: < 6200 lumens	☐	☐
							Total Design Watts:	219			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to 130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

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CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
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H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Building Lights	Photocontrol	Provided	Provided	☐	☐

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

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CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Rowley Park	**Report Page:** (Page 5 of 7)
	Date Prepared: 11/21/2023

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.
Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
☒ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☐ Per Specific Area Table M	

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Walkway Lighting	4180	0.019	79.4	380	0.2	57	136
					Initial Wattage Allowance for Entire Site (Watts):		200
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		336

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Rowley Park	**Report Page:** (Page 6 of 7)
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M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Building Lights;

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: Rowley Park	**Report Page:** (Page 7 of 7)
Project Address: 13220 Van Ness Ave	**Date Prepared:** 11/21/2023

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Steven Johnson	Steven Johnson
Company: Design West Engineering	Signature Date: 2023-11-21
Address: 412 E. Vanderbilt Way	CEA/ HERS Certification Identification (if applicable): 33209
City/State/Zip: San Bernardino CA 92408	Phone: 909-890-3700

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Braden Kepton	Braden Kepton
Company: Design West Engineering	Date Signed: 2023-11-21
Address: 412 E. Vanderbilt Way	License: E22839
City/State/Zip: San Bernardino CA 92408	Phone: 909-890-3700

412 E. Vanderbilt Way
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
Email: cadd@designwesteng.com

DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

REGISTERED PROFESSIONAL ENGINEER — BRADEN KEMP KEPTON — 22839 — EXP. 09-30-25 — ELECTRICAL — STATE OF CALIFORNIA

REVISIONS

NO.	DESCRIPTION	DATE	APPROVED
1	PLAN CHECK RESUBMITTAL	11-21-23	BK

B.M.: _

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS – ENGINEERING

TITLE 24 FORMS
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
13220 VAN NESS AVENUE, GARDENA, CA

	INITIAL	DATE
DESIGNED BY	-	
DRAWN BY	-	
CHECKED BY	-	

APPROVED BY: 11/12/2024 Allan Rigg
DATE DIRECTOR OF PUBLIC WORKS

SHT. 10 OF 12 DWG. NO. S-2616

23-191

FILE PATH: N:\PROJECTS\2023-191 ROWLEY PARK_CAD\23-191 E-T24.DWG
PLOT TIME: 11/20/2023 9:30:54 PM

I. General

1. Materials and workmanship to conform with the 2022 edition of the California Building Code (C.B.C.) and the requirements of the contract documents.

2. These general notes supplement the requirements of the project specifications. in case of conflict between the plans and specifications, contact the owner's representative.

3. Reference to codes, rules, regulations, standards, manufacturer's instructions or requirements of regulatory agencies is to the latest printed edition of each in effect at the date of submission of bid unless the document date is shown.

4. Drawings indicate general and typical details of construction. where conditions are not specifically indicated but are of similar character to details shown, use similar details of construction, subject to review by the owner's representative.

5. Details on sheets titled "Typical Details" apply to situations occurring on the project that are the same or similar to those specifically referenced. Such details are not noted at each location that they occur.

6. The Contractor is responsible for coordinating the work of all trades and for checking dimensions. Notify the owner's representative of any discrepancies and resolve before proceeding with the work.

7. Do not scale the drawings.

8. Provide measures necessary to protect the structure during construction. Such measures include, but may not be limited to, bracing and shoring for loads during construction. Retain a registered Civil Engineer who is properly qualified to design bracing, shoring, etc. Visits to the site by the owner's representative will not include observation of the above noted items.

9. Information shown on the drawings related to existing conditions represents the present knowledge, but without guarantee of accuracy. Report conditions that conflict with the contract documents to the owner's representative. Do not deviate from the contract documents without written direction from the owner's representative.

10. Refer to architectural drawings for size and location of floor, roof and wall openings not shown on the structural drawings. Coordinate the size and location of openings associated with, but not limited to, electrical, mechanical and plumbing trades. Submit final sizing and location requirements of openings to the owner's representative for review.

11. Reference datum for the elevations is finish first floor, elevation - see architectural and civil drawings.

12. The Contractor is solely responsible for providing a safe place to work and meeting the requirements of all applicable jurisdictions. Execute work to ensure the safety of persons and adjacent property against damage by falling debris and other hazards in connection with this work.

II. Cast In-place Concrete

1. Concrete is reinforced and cast-in-place unless otherwise noted. where reinforcing is not specifically shown or where details are not given, provide reinforcing similar to that shown for similar conditions, subject to review by the owner's representative.

2. Roughen concrete surfaces of construction joints to ¼ inch amplitude and clean of laitance, foreign matter, and loose particles. locate construction joints as shown on the drawings. submit alternate joint locations or joints not shown to the owner's representative for review and approval prior to proceeding with the work.

3. At locations where concrete is cast against existing concrete, roughen contact surfaces to *1/4* inch amplitude and clean of laitance foreign matter, and loose particles.

4. At locations where concrete is cast against existing masonry, thoroughly roughen contact surfaces by light sandblasting or other suitable means and clean of laitance, foreign matter. and loose particles.

5. Refer to architectural and mechanical drawings for locations of additional concrete curbs and housekeeping pads not shown.

6. Concrete clear cover to reinforcing bars is as follows, unless otherwise noted:

Location	Clear Cover
Concrete placed against earth	3 inches
Formed surfaces exposed to weather or in contact with earth: #6 bars larger	2 inches
#5 bars and smaller	1 1/2 inches
Slabs on grade (top clearance)	1 1/2 inches
Beams, girders and columns not exposed to weather or earth	1 1/2 inches
Wall or slab surfaces not exposed to weather or earth: #5 & smaller	3/4 inch
#6 & #7	1 inch
#8,#9, #10 & #11	1 1/2 inches
#14 & #18	2 1/2 inches

7. Concrete Types:

Class 28-day* strength	Type	Location
A 4500 psi (0.45 max. water cement ratio)	normal weight	at Pier Footings

8. The above table provides the minimum compressive strength of concrete required. Higher strength concrete mixes may be required to meet other mix design specifications (refer to project specification) or other project requirements.

9. Cement shall conform to ASTM C150 Type V.

10. Fine and coarse aggregates shall conform to ASTM C33. Lightweight aggregate shall conform to ATSM C330

11. Water shall be clean and not detrimental to concrete.

12. For each class of concrete, a concrete mix design shall be prepared based on field experience or trial mixtures in conformance to ACI 211 and ACI 301.

13. Concrete mix designs shall be reviewed by the owner's testing agency. Contractor shall submit concrete mix design for each class of concrete, including letter of conformance from owner's testing agency, to owner's representative for review. As an alternate to the letter of conformance from the owner's testing agency, the concrete mix design may be prepared by a civil engineer licensed in state of California. The mix design shall bear the stamp and signature of the civil engineer.

14 Continuously moist cure concrete slabs-on-grade for 7 days minimum. Water fog sprays, ponding, saturated absorptive covers, moisture retaining covers or curing compounds may be used.

15 Concrete fill thickness shown on the framing plans are minimum thicknesses. No allowances have been shown for additional concrete fill required to compensate for frame, deck, or formwork deflections to maintain surface tolerances specified.

16 Non-shrink grout, 7000 psi min.: Quikrete Non-shrink Precision Grout No. 1585-00

III. Foundation and Site Work

1. The design of the foundation system is based upon Geotechnical report by Petra Geosciences Inc. (project No. J.N. - 161-PW) dated 09/26/23 :
a.) Class of Materials: see geotechnical report
b.) Vertical Foundation Pressure: 1000 psf
c.) Lateral Sliding Resistance (friction) 0.25
d.) Lateral Sliding Resistance (passive pressure) 150 pcf

2. New structural footings to be founded a minumum of 24" below grade. Site wall footings to be founded a minimum of 12" into grade as provided by the overexcavation and removal of existing loose, surface soils, and recompation thereof . Concrete slabs to be placed over a vapor barrier, gravel, and compacted subgrade soils.

3. Excavations for foundations must be accepted by a Engineering Geologist prior to placing reinforcing and concrete. Notify the Engineering Geologist when excavations are ready for inspection. Engineering Geologist shall provide a memo stating that footing excavations have been reviewed.

4. All structures shall derive their support from the underlying competent terrace deposits material. This shall be accomplished with conventional shallow footings where possible and deepened pier foundations where needed. The depth of the bottom of the shallow foundations may need to increase at the direction of the Engineering Geologist based on field conditions.

5. Provide de-watering as needed.

6. Locate and protect existing utilities to remain during and / or after construction.

7. Remove abandoned footings, utilities, etc. which interfere with new construction, unless otherwise indicated.

8. Notify the owner's representative if any buried structures not indicated, such as cesspools, cisterns, foundations, etc. are found.

9. The Contractor is solely responsible for excavation procedures including lagging, shoring. underpinning and protection of existing construction. this includes the existing perimeter site retaining walls.

10. Remove loose soil and standing water from foundation excavations prior to placing concrete.

11. Place backfill behind retaining walls after concrete or masonry has attained full design strength. Brace building and pit walls below grade from lateral loads until attached floors and slabs on grade are complete and have attained full design strength.

12. All subterranean retaining walls shall be waterproofed (refer to architectural drawings) and properly drained (refer to civil drawings) in accordance with the applicable building code.

Statement of Special Inspections

Project: Rowley Park Basketball Rehab and New Basketball Court
Location: 13220 Van Ness Ave., Gardena, CA 90249

This Statement of Special Inspections is submitted in fulfillment of the requirements of CBC Sections 1704 and 1705. Included are:
· Schedule of Special Inspections and tests applicable to this project:
- Special Inspections per Sections 1704 and 1705
- Special inspections for Seismic Resistance
- Special inspections for Wind Resistance

· List of the Testing Agencies and other special inspectors that will be retained to conduct the tests and inspections.

Special Inspections and Testing will be performed in accordance with the approved plans and specifications, this statement and CBC sections 1704, 1705, 1707, and 1708.

The Schedule of Special Inspections summarizes the Special Inspections and tests required. Special Inspectors will refer to the approved plans and specifications for detailed special inspection requirements. Any additional tests and inspections required by the approved plans and specifications will also be performed.

Interim reports will be submitted to the Building Official and the Registered Design Professional in Responsible Charge in accordance with CBC Section 1704.1.2

A Final Report of Special Inspections documenting required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy (Section 1704.1.2). The Final Report will document:
· Required special inspections.
· Correction of discrepancies noted in inspections.
The Owner recognizes his or her obligation to ensure that the construction complies with the approved permit documents and to implement this program of special inspections. In partial fulfillment of these obligations, the Owner will retain and directly pay for the Special Inspections as required in CBC Section 1704.1.

This plan has been developed with the understanding that the Building Official will:
· Review and approve the qualifications of the Special Inspectors who will perform the inspections.
· Monitor special inspection activities on the job site to assure that the Special Inspectors are qualified and are performing their duties as called for in this Statement of Special Inspection.
· Review submitted inspection reports.
· Perform inspections as required by the local building code.

Prepared by:

Michael Emde, P.E.

Registered Design Professional in Responsible Charge

Signature Date 11/15/23

Owner's Authorization: Building Official's Acceptance:

Special Inspection Program

	Items (only checked items required)	Continuous	Periodic
	Hilti HIT-RE 500 V3 Epoxy Adhesive Anchorage in Concrete (per ICC ESR 3814)		
X	Placement of Concrete with strength greater than 2500 psi (verify proper placement, design mix and sampling for test cylinders)	X	
	Field Welding		
	Hilti Kwik KH-EZ Concrete Screw Anchor (per ICC ES-ESR 3056)		
	Concrete Curing		
	Simpson Strong-Tie Titen HD Concrete Screw Anchor (per ICC ES-ESR 2713)		
	Anchor Bolts installed into concrete prior to and during placement of the concrete		
	Simpson Strong-Tie SET-XP Epoxy (per ICC ES-ESR 2508)		
	Soil materials at foundations and slabs verified to meet or exceed stipulated design values		X
	Proper excavation for new foundations and preparation of subgrades prior to concrete placement		X
	Proper materials and placement there of for compacted fills		X
	Simpson Strong-Tie Titen HD Concrete Screw Rod Hanger Anchor (per ICC ES-ESR 2713)		
	Masonry per MSJC Table 3.1.2 (ACI 530)		

(E) EXISTING
(N) NEW
NUMBER
& AND
@ AT
A. ADHESIVE ANCHOR
B. ANCHOR BOLT
ABV ABOVE
ADD'L ADDITIONAL
ADJ ADJACENT
AGGR AGGREGATE
AL. ALUMINUM
ALT ALTERNATE
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX APPROXIMATE
ARCH ARCHITECTURAL
ASTM AMERICAN SOCIETY for TESTING and MATERIALS
A. ASPHALT CONCRETE
AWG AMERICAN WIRE CUAGE
BET BETWEEN
BLDG BUILDING
BLKG BLOCKING
BM or BMS BEAM OR BEAMS
B.N. BOUNDARY NAILING
B.O. FTG BOTTOM OF FOOTING
BOT BOTTOM
BP BASE PLATE
B.S. BOTH SIDES
BSMT BASEMENT
C CHANNEL
CIP CAST IN PLACE
C.J. CONSTRUCTION JOINT
CL or CENTERLINE
CLG CEILING

CLR CLEAR
C.M.U. CONCRETE MASONRY UNIT
COL COLUMN
CONC CONCRETE
CONN CONNECTION
CONSTR CONSTRUCTION
CONT CONTINUOUS
CP COMPLETE PENETRATION
CSK COUNTERSINK
CTR CENTER
d PENNY (NAIL SIZE)
DBL DOUBLE
DEMO DEMOLITION
DET or DETS DETAIL OR DETAILS
DIAG DIAGONAL
DIA OR DIAMETER
DIM or DIMS DIMENSION or DIMENSIONS
DIST DISTANCE
DK or DKG DECK or DECKING
DN DOWN
LLV LONG LEG VERTICAL
LOC LOCATION
LONGIT LONGITUDINAL
L.P LOW POINT
Ls LAP SPLICE LENGTH
LSL STRAND LUMBER
LT LIGHT
LVL MICROLLAM, LAMINATED VENEER LUMBER
LWC LIGHT WEIGHT CONCRETE
MAX MAXIMUM
M.B MACHINE BOLT
MECH MECHANICAL
M.E.P MECHANICAL, ELECTRICAL, PLUMBING
MEZZ MEZZANINE
MFR MANUFACTURER
MIN MINIMUM
MISC MISCELLANEOUS
MTD MOUNTED
MTL METAL
N NORTH
N.F NEAR FACE
N.I.C NOT IN CONTRACT
NO or # NUMBER
NOM NOMINAL DIAMETER
N.S. NEAR SIDE
N.T.S. NOT TO SCALE
NWC NORMAL WEIGTH CONCRETE
O.C. ON CENTER
O.D. OUTSIDE DIAMETER (DIM)
O.H. OPPOSITE HAND
OPNG OPENING
OPP OPPOSITE
OWSG OPEN WEB STEEL GIRDER
OWSJ OPEN WEB STEEL JOIST
PC or PCS PIECE or PIECES
PERP PERPENDICULAR
PL PLATE
PLYWD PLYWOOD
PP PAIR
PRCST PRE CAST
PSL PARALAM, PARALLEL STRAND LUMBER
PT POINT
PTN PARTITION
R or RAD RADIUS
REBAR REINFORCING BAR
REF REFERENCE
REINF REINFORCED or REINFORCING
REQ'D REQUIRED
REV REVISE or REVISION
RFG ROOFING
R.O. ROUGH OPENING
RSJ ROLLED STEEL JOIST
S.A.D. SEE ARCH. DOCUMENTS
SCHED SCHEDULE

Abbreviations

PREPARED BY:
Structics, Inc.
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PH: 760-814-2201
EM: info@structics.com

MICHAEL W EMDE RCE 47257 12/31/23

REGISTERED PROFESSIONAL ENGINEER MICHAEL WERNER EMDE No. C 47257 Exp. 12-31-23 CIVIL STATE OF CALIFORNIA

B.M.

REVISIONS

NO.	DESCRIPTION	DATE	APPROVED

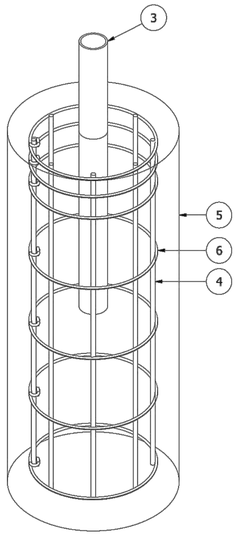
CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS - ENGINEERING

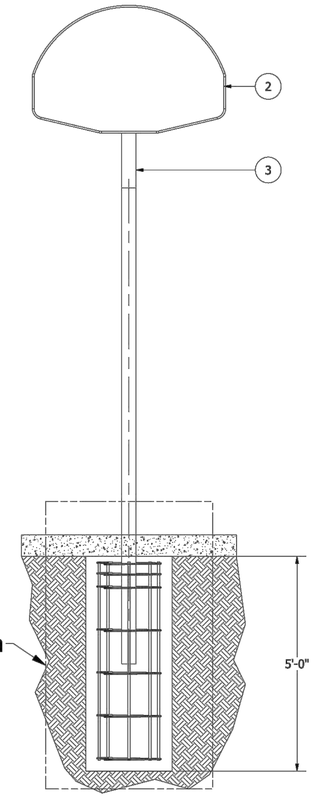
SHEET TITLE
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
13220 VAN NESS AVENUE, GARDENA, CA

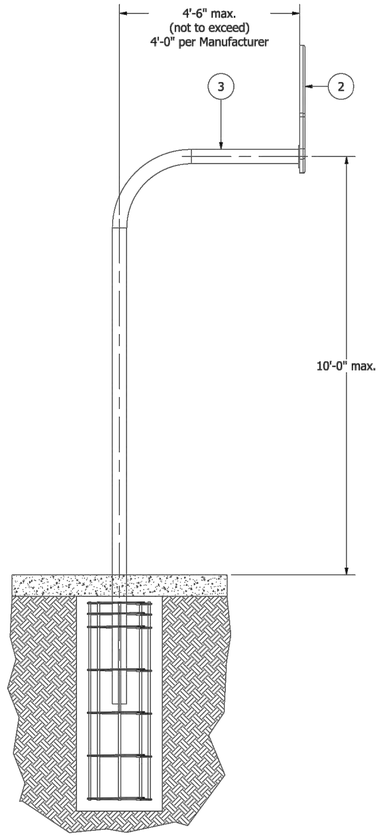
	INITIAL	DATE
DESIGNED BY	MWE	11/15/23
DRAWN BY	MWE	11/15/23
CHECKED BY	MWE	11/15/23

APPROVED BY: 11/12/2024 Allan Rigg
DATE: DIRECTOR OF PUBLIC WORKS

SHT. 11 OF 12 DWG NO. S-2616



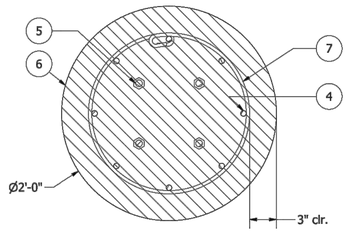




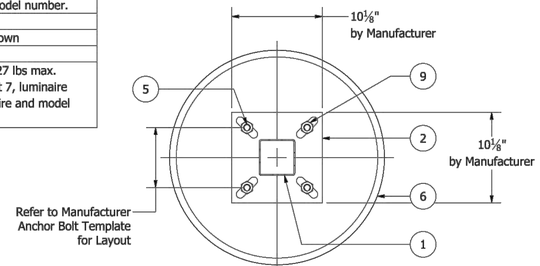
Basketball Backboard Elevations **(2)**

Light Pole Footing Key Notes

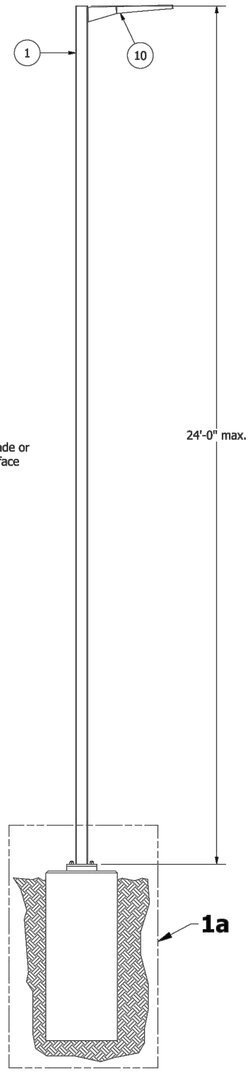
Item	Qty	Part	Description
1	1	Light Pole	Pole per electrical drawings - 240 lbs. max weight, and height as shown. See electrical drawings sheet 7, luminaire schedule for manufacturer of light pole and model number.
2	1	Light Pole Base Plate	Base Plate supplied by manufacturer. See electrical drawings sheet 7, luminaire schedule for manufacturer of light pole base plate and model number.
3	1	Light Pole Base Plate Non-Shrink Grout	Quikrete Non-Shrink Precision Grout (No.1585-00) or equal
4	8	Light Pole Pier Vertical Rebar	#5 Vertical Bars placed as shown
5	4	Light Pole Base Plate Anchor Bolt	Anchor Bolt Assemby supplied by manufacturer. Set anchor bolts using manufacturer supplied template. See electrical drawings sheet 7, luminaire schedule for manufacturer of light pole and model number.
6	1	Light Pole Concrete Pier	4500 psi Cast in Place Concrete Pier
7	7	Concrete Pier Ties	#3 Closed Circular Ties placed as shown
9	8	3/4 - 10 Hex Nut	supplied by manufacturer
10	1	LED Luminaire	Luminaire per electrical drawings - 27 lbs max. weight. See electrical drawings sheet 7, luminaire schedule for manufacturer of luminaire and model number.



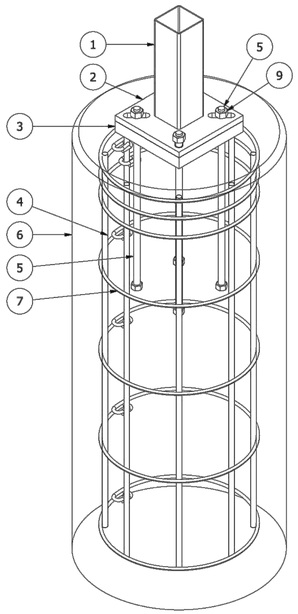
Section **(B-B)**
SCALE 1 / 8

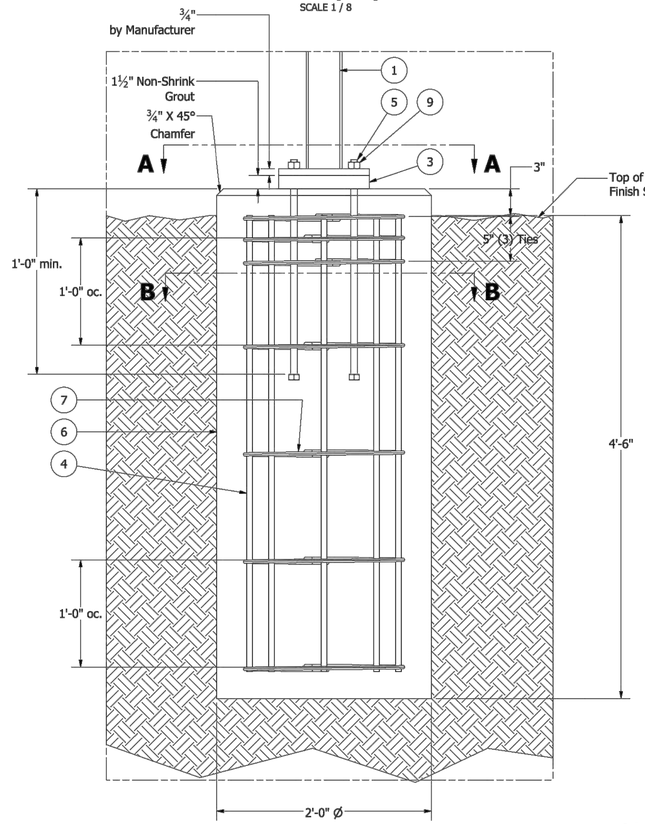


Section **(A-A)**
SCALE 1 / 8

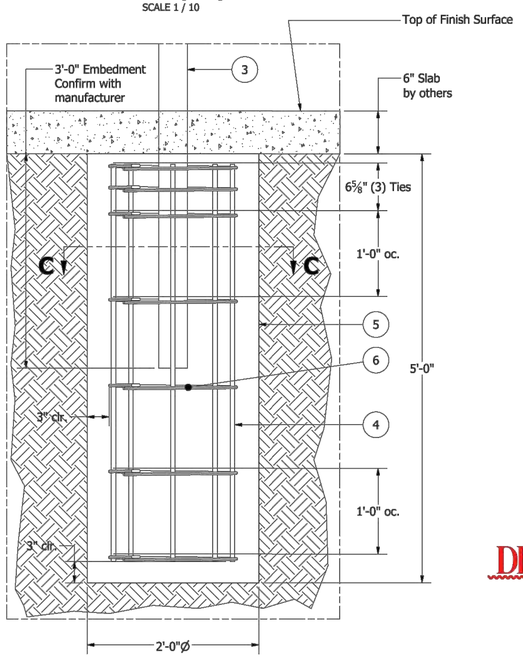


Light Pole Elevation **(1)**





Light Pole Footing **(1a)**
SCALE 1 / 8



Basketball Backboard Footing **(2a)**
SCALE 1 / 10

Basketball Backboard Footing Key Notes

Item	Qty	Part	Description
2	1	Basketball Backboard	refer to Landscape drawings - 50 lbs max. weight
3	1	Basketball Support Post	refer to Landscape drawings - 163 lbs max. weight
4	8	Basketball Pier Vertical Rebar	#5 Vertical Bars placed as shown
5	1	Basketball Concrete Pier	4500 psi Cast in Place Concrete Pier
6	7	Concrete Pier Ties	#3 Closed Circular Ties placed as shown

Note:
See sheet 2, keynote C-02 for manufacturer of basketball backboard assembly and model number.

DIGALERT
DIAL TOLL FREE
1-800-422-4133
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

PREPARED BY:
Structics, Inc.
54105 Glenda Lane
Anza, CA 92539
PH: 760-814-2201
EM: info@structics.com
MICHAEL W EMDE RCE 47257 12/31/23

REGISTERED PROFESSIONAL ENGINEER
MICHAEL WERNER EMDE
No. C 47257
Exp. 12-31-23
CIVIL
STATE OF CALIFORNIA
B.M.

REVISIONS

NO.	DESCRIPTION	DATE	APPROVED

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS - ENGINEERING

SHEET TITLE
ROWLEY PARK IMPROVEMENTS
BASKETBALL COURT REHAB
13220 VAN NESS AVENUE, GARDENA, CA

	INITIAL	DATE
DESIGNED BY	MWE	11/15/23
DRAWN BY	MWE	11/15/23
CHECKED BY	MWE	11/15/23

APPROVED BY:
11/12/2024 Allan Rigg
DATE: DIRECTOR OF PUBLIC WORK

SHT. 12 OF 12 DWG NO. 5-2616

DEPARTMENT of PUBLIC WORKS
1717 WEST 162nd STREET / GARDENA, CALIFORNIA 90247-3731 / WWW.CITYOFGARDENA.ORG / PHONE (310) 217-9568

NOTICE OF EXEMPTION

TO: ☐ Office of Planning & Research
1400 Tenth Street
Sacramento, CA 95814

☐ County Clerk / Registrar Recorder
ATTN: Environmental Filings Clerk
12400 East Imperial Highway, Room 1101
Norwalk, CA 90650

Project Title: Rowley Park Improvements Basketball Court Rehab - Phase 1, JN 530
Project Location (Specific): 13220 Van Ness Ave. Gardena CA 90249
Project Location (City): Gardena **Location (County)**: Los Angeles County
Description of nature, purpose and beneficiaries of project: This project will replace existing lighting fixtures, install drainpipes, and replace sand in lot area with poured in-place resilient surfacing.
Name of public agency approving project: City of Gardena

Name of person or agency carrying out project: City of Gardena

Exempt Status: (Check One)

☐ Ministerial: (P.R.C. Sec. 21080[b][1]; Guidelines Sec. 15268)
☐ Declared Emergency: (P.R.C. Sec. 21080[b][3]; Guidelines Sec. 15269[a])
☐ Emergency Project (P.R.C. Sec. 21080[b][4]; Guidelines Sec. 15269[b][c])
x Categorical Exemption: Section 15301 Class 1, Existing Facilities
☐Other: Guidelines Sec. 15061):

Reason why project is exempt: This project consists of minor alteration of existing public facilities and involves negligible or no expansion of use beyond that previously existing.

Contact person: Jose Espinoza **Telephone**: 310-217-9644

If filed by applicant:
1. Attach certified document of exempting finding.
2. Has a notice of exemption been filed by the public agency approving the project? ☐ Yes ☐ No

Date received for filing:

CLINT OSORIO Date
Environmental Quality Officer

NOTE: Exempt from Dept. of Fish & Game Wildlife Fee in accordance with de minimis impact finding (735.5[c])

TASHA CERDA, Mayor / MARK E. HENDERSON, Mayor Pro Tem
RODNEY G. TANAKA, Councilmember / PAULETTE C. FRANCIS, Councilmember / WANDA LOVE, Councilmember
MINA SEMENZA, City Clerk / GUY MATO, City Treasurer / CLINT OSORIO, City Manager / CARMEN VASQUEZ, City Attorney

BID PROPOSAL (BP)

ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING
PROJECT NO. JN 530 Phase 1

Contractor: **Zeco, Inc.**

Address: **2845 Savi Ranch Parkway, Unit C Yorba Linda, CA 92887**

Phone: **844-932-6462**

Fax: **N/A**

License No.: **1031463 - A,B, D21, C13 and C27**

D.I.R. No. **1000053551**

Email: **info@zeco-inc.com**

To Be

Submitted

WITH

Bid Package

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

BID SCHEDULE

The undersigned, having examined the proposed Contract Documents titled:

ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB
PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING

and having visited the site and examined the conditions affecting the work, hereby proposes and agrees to furnish all labor, materials, equipment, and appliances, and to perform operations necessary to complete the work as required by said proposed Contract Documents and itemized bid schedule below. All work shall be completed within 90 Working Days from the date the Notice of Proceed is issued by the Engineer.

Item No.	Item Description	Unit	Approx. Quantity	Unit Price in Figures	Item Total
1	Mobilization & Demobilization (5%)	LS	1	28,968.75	28,968.75
2	Permits	LS	1	$3,291.14	$3,291.14
3	Sawcut, Remove and Dispose Existing Concrete Paving	SF	1,256	20.86	26,197.02
4	Provide Concrete Crack Repair & Grind to Even Plane	LS	1	11,587.50	11,587.50
5	Remove and Dispose of Existing Basketball Post/Hoop/Backboard/Conc. Footing.	EA	4	2896.88	11,587.50
6	Grading Export (Cut) Tot Lot Area	CY	255	174.97	44617.67
7	Construct Concrete Pavement	SF	1610	20.86	33,580.58
8	Furnish & Install Crushed Rock Subbase & Filter Fabric for Tot Lot	CY	141	173.81	24,507.56
9	Furnish & Install 4-inch Permeable Concrete Subslab	CY	65	370.80	24,102
10	Furnish & Install 2-Layer Poured-in-Place Resilient Surfacing	CY	49	2,802.49	137,322.3
11	Furnish & Install Basketball Post, Hoop, Backboard & Concrete Footing	EA	4	6373.13	25,492.50

12	Furnish & Install NDS FWAS24 Drywell (Or Equal)	EA	6	2,317.50	13,905.00
13	Furnish & Install 12-inch Brooks Catch Basin 1212CB or equal	EA	5	2,497.11	12,485.53
14	Furnish & Install 18-inch Brooks Catch Basin 1818CB or equal	EA	1	3,174.98	3,174.98
15	Furnish & Install 24-inch Brooks Catch Basin 2424CB or equal	EA	1	4,055.63	4,055.63
16	Furnish and install 4-Inch Sch 40 PVC Drainpipe	LF	555	69.53	38,586.38
17	Furnish & Install Miscellaneous Turf & Irrigation Repair	LS	1	8690.63	8690.63
18	Remove & Dispose of Existing Post, Light Fixture and Footing	EA	3	3302.44	9907.31
19	Remove Existing Light Fixture (Pole to Remain)	EA	1	11584.50	11584.50
20	Remove and Dispose of Existing Wall Mounted Light Fixtures	EA	3	3708.00	11,124.00
21	Furnish & Install (S1) Slim Style Type FT Optics, 20' Pole Mount	EA	1	15,295.50	15,295.50
22	Furnish & Install (S2) Duel Slim Style Type FT Optics, 20' Pole Mount	EA	1	17,149.50	17,149.50
23	Furnish & Install (S3) Slim Style Type FT Optics, Mount on Existing Pole	EA	1	2,027.81	2,027.81
24	Furnish & Install (S4) Wall Mounted LED Fixture w/ 0-10V Dimming	EA	3	1738.31	5214.38
25	Furnish & Install (S5) Slim Style Type 5W Optics, 20' Pole Mount	EA	2	20857.50	41,715.00
26	Furnish & Install (2)#10, (1) #10G / 1" Conduit	LF	83	144.84	12,022.03
27	All Other Miscellaneous Electrical Work	LS	1	10,332.54	10,332.54

BID SCHEDULE (Continued)

TOTAL CONTRACT BID:

(Figures) $ 588,528.27

(Words) Five Hundred Eighty Eight Thousand Five Hundred Twenty Eight Dollars and Twenty Seven Cents

* In case of error in extension of price into the total price column, the unit price will govern.

All work required and shown on the construction plans and this specification for which no price or item is listed on this proposal, it shall be understood that such work, equipment, labor, tools and materials shall be provided without extra charge, allowance or direct payment of any kind. Payment for performing such work or furnishing such equipment, labor, tools and materials shall be included in the above lump sum or unit bid prices and no additional compensation will paid therefor.

If the City determines that any of the unit bid prices are significantly unbalanced to the potential detriment of the City, the bid will be replaced as non-responsive.

In case of any discrepancy between the words and the figures, the words shall prevail. If the unit price and the total amount for any item are not in agreement, the unit price alone shall be considered to represent the bidder's intention and all totals will be corrected to conform thereto.

Attached hereto is ~~cash, a certified check, a cashier's check, or a~~ bidder's bond in the amount of 10% OF THE BID AMOUNT Dollars said amount being not less than 10 percent of the amount bid. Pursuant to Public Contract Code Sections 20172 and 20174, it is agreed a portion equal to the difference between the low bid and second low bid shall be retained as a bid bond forfeiture by the City if the undersigned fails or refuses to execute the Contract and furnish the required bonds and certificates of insurance within the time provided.

Zeco, Inc.

Name of Bidder

Signature of Bidder

BID PROPSOAL

PROJECT NO. JN 530 Phase 1

ACKNOWLEDGEMENT OF ADDENDA RECEIVED

The Bidder shall acknowledge the receipt of addenda by number and date each addendum received.

No Addendum

Addendum No.____Date_____Addendum No._____Date _____

Addendum No.____Date_____Addendum No._____Date _____

Addendum No.____Date_____Addendum No._____Date _____

Addenda will be issued only through the ARC Document Solutions and access under their "Planrooms"/"Order From Planwell" (https://www.e-arc.com/location/costa-mesa/). It is the Bidder's sole responsibility to visit the Planroom to obtain and administer any Addendum related to this bid. **An Addendum must be acknowledged above by a bidder in its submitted form of Proposal.**

If an addendum or addenda has been issued by the City and not noted above as being received by the Bidder, the Bid Proposal may be rejected.

Bidder's Signature

01/29/2025
Date

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

BIDDER'S DECLARATION

It is understood and agreed that:

1. The undersigned has carefully examined all documents which will form a part of the Contract; namely, the Notice Inviting Bids, the Instructions to Bidders, this Proposal, the Bid Bond, the Contract, the Faithful Performance Bond, the Payment Bond, the federal requirements, if any, the Plans and Specifications, the Special Provisions, and the Technical Provisions.

2. The undersigned has, by investigation at the site of the work and otherwise, satisfied himself as to the nature and location of the work and fully informed himself as to all conditions and matters, which can in any way affect the work or the cost thereof.

3. The undersigned fully understands the scope of work and has checked carefully all words and figures inserted in this Proposal and he further understands that the City will not be responsible for any errors or omissions in the preparation of the Proposal.

4. The undersigned agrees and acknowledges that he is aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and that the undersigned will comply with such provisions before commencing the performance of the Contract if it is awarded to the undersigned.

The undersigned will execute the Contract and furnish the required statutory bonds and certificates of insurance within the period of time specified in the Contract Documents.

The undersigned will begin work after award of Contract and a Notice to Proceed has been given as herein specified and will complete said work within the time specified in the Bidding Schedule.

5. The undersigned certifies that this Proposal is genuine and not sham or collusive, or made in the interest or on behalf of a person not herein named, and the undersigned has not directly or indirectly induced or solicited any other bidder to put in a sham bid nor induced any other person, firm, or corporation to refrain from bidding. The undersigned has not in any manner sought by collusion to secure for himself any advantage over any other bidder.

6. The undersigned will accept an award and enter into a Contract for all work scheduled herein on which he puts in a bid. The awards for such work are to be entirely at the discretion of the City after evaluation of the bids as submitted. The undersigned agrees that the City shall recover or retain as a bid bond forfeiture an amount equal to the difference between the low bid and amount of the bid of the bidder with whom the City enters into a Contract, and the surplus, if any, shall be returned to the lowest bidder in accordance with the provisions of the Public Contract Code Sections 20172 and 20174 in the event of his failure to execute a Contract and furnish required bonds and insurance therefor within the time provided.

BIDDER'S DECLARATION (Continued)

7. The undersigned bidder stated under penalty of perjury that the representations made in submitting this bid are, to the best of his/her knowledge, true, accurate, and complete.

Respectfully submitted,

Zeco, Inc.
Contractor's Business Name

2845 Savi Ranch Parkway, Unit C
Business Address: Street

Yorba Linda, CA 92887
City State Zip

844-932-6462
Business Phone Number

01/29/2025
Date

Amin Nazarinia **President**
Name Title

Yorba Linda, CA 92887
City State Zip

Zeco, Inc.
Contractor (Print) Title

President
Signature Title

1031463 - A,B, D21, C13 and C27
Contractor's License No. and Classification

N/A
Business Fax Number

2845 Savi Ranch Parkway, Unit C
Residence: Street

424-279-2838
Residence Phone Number

Note: If the bid is made by an individual, it must be signed with the full name of the bidder, whose address must be given: if it is made by a firm, it must be signed in the co-partnership's name by a general partner thereof, who shall also sign his or her own name, and the name and full address of each partner (general and/or limited) must be given; and if it is made by a corporation, it must be signed by a properly authorized officer, the corporate name shall be set forth, and the corporate seal shall be affixed.

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

NON-COLLUSION AFFIDAVIT

(To be executed by Bidder and submitted with Bid)

State of California

County of Los Angeles

Amin Nazarinia being first duly sworn, deposes and says that he or ~~she~~ is **President** of **Zeco, Inc.** the party making the foregoing bid, that the bid is not made in the interest of, or on the behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay fee to any corporation, or agent thereof to effectuate a collusive or sham bid.

Zeco, Inc.
NAME OF BIDDER

SIGNATURE OF BIDDER

2845 Savi Ranch Parkway, Unit C
ADDRESS OF BIDDER

Yorba Linda, CA 92887
CITY STATE ZIP

ALL SIGNATURES MUST BE WITNESSED BY NOTARY
(attach appropriate jurats)

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

DECLARATION OF ELIGIBILITY TO CONTRACT

[Labor Code Section 1777.1; Public Contract Code Section 6109]

The undersigned, a duly authorized representative of the contractor, certifies and declares that:

1. The undersigned contractor is aware of Sections 1777.1 and 1777.7 of the California Labor Code, which prohibit a contractor or subcontractor who has been found by the Labor Commissioner or the Director of Industrial Relations to be in violation of certain provisions of the Labor Code, from bidding on, being awarded, or performing work as a subcontractor on a public works project for specified periods of time.

2. The undersigned contractor is not ineligible to bid on, be awarded or perform work as a subcontractor on a public works project by virtue of Sections 1771.1 or 1777.7 of the California Labor Code or any other provision of law.

3. The undersigned contractor is aware of California Public Contract Code Section 6109, which states:

> "(a) A public entity, as defined in Section 1100 [of the Public Contract Code], may not permit a contractor or subcontractor who is ineligible to bid or work on, or be awarded, a public works project pursuant to Section 1777.1 or 1777.7 of the Labor Code to bid on, be awarded, or perform work as a subcontractor on, a public works project. Every public works project shall contain a provision prohibiting a contractor from performing work on a public works project with a subcontractor who is ineligible to perform work on the public works project pursuant to Section 1771.1 or 1777.7 of the Labor Code."
>
> "(b) Any contract on a public works project entered into between a contractor and a debarred subcontractor is void as a matter of law. A debarred subcontractor may not receive any public money for performing work as a subcontractor on a public works contract, and any public money that may have been paid to a debarred subcontractor by a contractor on the project shall be returned to the awarding body. The contractor shall be responsible for the payment of wages to workers of a debarred subcontractor who has been allowed to work on the project."

4. The undersigned contractor has investigated the eligibility of each and every subcontractor the undersigned contractor intends to use on this public works project, and has determined that none of them are ineligible to perform work as a subcontractor on a public works project by virtue of the foregoing provisions of the Public Contract Code, Sections 1771.1 or 1777.7 of the Labor Code, or any other provision of law.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed this **29th** day of **January**, 20**25**, at **Yorba Linda, CA** (place of execution), California/**OC**.

Signature: _____ Name: **Amin Nazarinia**

Title: **President** Company: **Zeco, Inc.**

BID PROPOSAL

Bid Bond No. 101292629

PROJECT NO. JN 530 Phase 1

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

THAT ZECO INC, as Principal, and Merchants Bonding Company (Mutual), as Surety, are held firmly bound unto the City of Gardena in the sum of $ 60,362.00 ; Sixty Thousand Three Hundred Sixty Two and 00/100 DOLLARS, (not less than ten percent of total amount of bid) for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a bid to the City to perform all work required under the following:

PROJECT: ROWLEY PARK IMPROVEMENTS BASKETBALL COURT REHAB PHASE 1 – DEMOLITION, DRAINAGE, ELECTRICAL AND SITE FURNISHING JN 530

NOW, THEREFORE, if said Principal is awarded a Contract by the City and, within the time and in the manner required in the Specifications for said project, enters into the written form of Contract bound with said Specifications and furnishes the required bonds, one to guarantee faithful performance and the other to guarantee payment for labor and materials, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by the City and judgment is recovered, said Surety shall pay all costs incurred by the City in such suit, including a reasonable attorneys' fee to be fixed by the court. Surety hereby waives the provisions of California Civil Code §2845.

SIGNED AND SEALED, this 28th day of January 2025.

ZECO INC (SEAL)	Merchants Bonding Company (Mutual) (SEAL)
Principal	Surety
BY: President	BY: David Neeley
Signature	Signature David Neeley, Attorney-in-Fact

Note: This bond must be dated, all signatures must be notarized, and evidence of the authority of any person signing as attorney–in-fact must be attached.

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Sacramento)

On January 28, 2025 before me, Blake Beverly, Notary Public,
(insert name and title of the officer)

personally appeared David Neeley,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ **(Seal)**

BLAKE BEVERLY
COMM. # 2363034
NOTARY PUBLIC - CALIFORNIA
SACRAMENTO COUNTY
MY COMM. EXP. JUNE 27, 2025

MERCHANTS BONDING COMPANY™

POWER OF ATTORNEY

Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa, d/b/a Merchants National Indemnity Company (in California only) (herein collectively called the "Companies") do hereby make, constitute and appoint, individually,

Blake Beverly; David Neeley; Jacob Ellen; James Drake; Jesse Newborn; Maureen Hallett

their true and lawful Attorney(s)-in-Fact, to sign its name as surety(ies) and to execute, seal and acknowledge any and all bonds, undertakings, contracts and other written instruments in the nature thereof, on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and amended August 14, 2015 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 16, 2015.

"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof."

"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and aut hority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner-Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 3rd day of February , 2024 .

MERCHANTS NATIONAL BONDING, INC. INCORPORATED -o- 2003

MERCHANTS BONDING COMPANY (MUTUAL) INCORPORATED -o- 1933

MERCHANTS BONDING COMPANY (MUTUAL)
MERCHANTS NATIONAL BONDING, INC.
d/b/a MERCHANTS NATIONAL INDEMNITY COMPANY

By Larry Taylor
President

STATE OF IOWA
COUNTY OF DALLAS ss.

On this 3rd day of February 2024 , before me appeared Larry Taylor, to me personally known, who being by me duly sworn did say that he is President of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument are the Corporate Seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.

NOTARIAL SEAL IOWA

Penni Miller
Commission Number 787952
My Commission Expires
January 20, 2027

Notary Public

(Expiration of notary's commission does not invalidate this instrument)

I, William Warner, Jr., Secretary of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 28th day of January , 2025 .

MERCHANTS NATIONAL BONDING, INC. INCORPORATED -o- 2003

MERCHANTS BONDING COMPANY (MUTUAL) INCORPORATED -o- 1933

William Warner Jr.
Secretary

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

DESIGNATION OF SUBCONTRACTORS

In compliance with the "Subletting and Subcontracting Fair Practices Act" being Sections 4100- 4113 of the Public Contract Code of the State of California, and any amendments thereto, each bidder shall set forth below the name and location of the place of business of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement in an amount in excess of one-half (1/2) of one percent (1%) of the prime contractor's total bid, and shall further set forth the portion of the work which will be done by each subcontractor. Only one subcontractor for each such portion shall be listed.

If the contractor fails to specify a subcontractor for any portion of the work to be performed under the contract, he shall be deemed to have agreed to perform such portion himself, and he shall not be permitted to subcontract that portion of the work except under the conditions hereinafter set forth.

Subletting or subcontracting of any portion of the work to which subcontractor was designated in the original bid shall only be permitted in cases of public emergency or necessity, and then only after a finding reduced to writing as a public record of the legislative body of the City.

Portion of Work %	Subcontractor's Name & Address	Type of Work	State License Number	Class	D.I.R. Number
20%	Robertson Recreational Surface (Equal per Specs) 2140 E. Cedar Street Tempe, AZ 85281	Rubberized Surface	667261	C61 -D12	1000002700
15%	Southern Contracting Company 559 Twin Oaks Valley Road • P.O. Box 445 • San Marcos, California 92079	Electrical	222252	A, C10	1000002172

Not more than 70 %.

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

CONSTRUCTION PROJECT REFERENCE

In order to more fully evaluate your background and experience for the project herein proposed, please submit a list of Public Works and/or similar construction projects completed or in progress within the last three (3) years. Failure to provide this information may constitute grounds for rejection of your bid as non-responsive.

Number of years as a contractor in construction work of this type: **8 Years**

Three projects of this type recently completed:

1. Name (Firm/Agency): **City of Rialto**
   Address: **335 W Rialto Ave, Rialto, CA 92376**
   Contact Person: **Rocky Kaw** Telephone No.: **909-421-4942**
   Title of Project: **Rialto City Park Improvement**

   Project Location: **130 E San Bernardino Ave, Rialto, CA 92376**
   Date of Completion: **01/20/2025** Contract Amount: $ **235,000**

2. Name (Firm/Agency): **City of Santa Fe Spring**
   Address: **11710 Telegraph Rd, Santa Fe Springs, CA 90670**
   Contact Person: **Robert Garcia** Telephone No.: **562-868-0511 Ext 7440**
   Title of Project: **Heritage Park Native American Pond Improvements CB No. 2024-02**

   Project Location: **12100 Mora Dr, Santa Fe Springs, CA 90670**
   Date of Completion: **12/29/2024** Contract Amount: $ **421,881**

3. Name (Firm/Agency): **City of Fountain Valley**
   Address: **10200 Slater Ave, Fountain Valley, CA 92708**
   Contact Person: **Roy Kojac** Telephone No.: **714-988-3988**
   Title of Project: **Reservoir#2 Rehab and Cordata Park Basketball Court Construction**

   Project Location: **18761 Cordata St, Fountain Valley, CA 92708**
   Date of Completion: **06/06/2022** Contract Amount: $ **2,145,515**

NOTE: If requested by the City, the bidder shall furnish a certified financial statement, references, and other information sufficiently comprehensive to permit an appraisal of his current financial condition.

Bidder's Signature _____

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

CERTIFICATE OF NON-DISCRIMINATION BY CONTRACTORS

As suppliers of goods or services to the City, the firm listed below certifies that it does not discriminate in its employment with regard to race, color, religion, sex, or national origin; that it is in compliance with all applicable federal, state, and local directives, and executive orders regarding non-discrimination in employment; and that it agrees to pursue positively and aggressively the principle of equal opportunity in employment.

We agree specifically:

1. To establish or observe employment policies which affirmatively promote opportunities for minority persons at all job levels.

2. To communicate this policy to all persons concerned, including all company employees, outside recruiting services, especially those serving minority communities, and to the minority communities at large.

3. To take affirmative steps to hire minority employees within the company.

FIRM **Zeco, Inc.**

TITLE OF PERSON SIGNING **President**

SIGNATURE _____

DATE **01/29/2025**

Please include any additional information available regarding equal opportunity employment programs now in effect within your company:

_____

_____

_____

_____

_____

_____

BID PROPOSAL

PROJECT NO. JN 530 Phase 1

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION – PRIMARY COVERED TRANSACTIONS

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS ON NEXT PAGE)

The Contractor shall not perform Work with any Subcontractor that has been debarred or suspended pursuant to California Labor Code Section 1777.1 or any other federal or State law providing for the debarment of contractors from public works. The Contractor and Subcontractors shall not be debarred or suspended throughout the duration of the Contract pursuant to Labor Code Section 1777.1 or any other federal or State law providing for the debarment of contractors from public works. If the Contractor or any Subcontractor becomes debarred or suspended during the duration of the Project, the Contractor shall immediately notify the City.

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

   a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

   b. Have not within a 5-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, or receiving stolen property;

   c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and

   d. Have not within a 5-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Signature: _____ Name: **Amin Nazarinia**

Title: **President** Company: **Zeco, Inc.**

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION – PRIMARY COVERED TRANSACTIONS (Continued)

INSTRUCTIONS FOR CERTIFICATION

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.
4. The prospective primary participant shall provide immediate written notice to the department or agency to which this proposal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations (13 CFR Part 145).
6. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.
7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-- Lower Tier Covered Transactions," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the ineligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

ZECO, INC.

22845 Savi Ranch Parkway, Unit C

Yorba Linda, CA 92887

CSLB#1031463- A | B | D21 | C13 | C27

844-932-6462

Info@zeco-inc.com

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CITY CLERK'S OFC
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Bid Package:

Rowley Park Improvements Rehab Project Phase I

PROJECT NO. JN 530

CITY OF GARDENA

Bid of Zeco, Inc.

For the Rowley Park Improvements

Rowley Park Improvements Basketball Court Rehab Phase 1, JN 530

1" = 180 ft	Project Location Map	02/19/2025	

This map may represents a visual display of related geographic information. Data provided here on is not guarantee of actual field conditions. To be sure of complete accuracy, please contact the responsible staff for most up-to-date information.

City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 16.B
Section: DEPARTMENTAL ITEMS - PUBLIC WORKS
Meeting Date: February 25, 2025

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: Award Construction Contract for the Park Electronic Signage Project, JN 529, to Square Signs LLC dba Front Signs in the amount of $435,015.85. Additionally, Approve the Project Plans & Specifications, $12,000 Construction Support Services Contract with David Volz Design (DVD), 20% of Project Contingency and Declare California Environmental Quality Act (CEQA) Exemption.

COUNCIL ACTION REQUIRED:

Staff Recommendations:

- **Award Construction Contract**
- **Approve Project Plans and Specifications**
- **Approve Construction Support Services**
- **Approve Project Contingency**
- **Declare CEQA Exemption**

RECOMMENDATION AND STAFF SUMMARY:

The Park Electric Signage Project will demolish the existing sign and install a new double-sided LED message sign, new curbs and landscaping at Rowley Park in the Van Ness Avenue Parking area. The LED sign will be approximately 20 feet by 14 feet, supported by a 34-foot-high steel tubing post (top of the screen to ground elevation) with a 30-inch diameter, 10-foot-deep concrete footing. The landscape area will include 250 linear feet of curbs and 1130 square feet of planting area and an irrigation system.

The following four (4) bids were received on January 30, 2025:

1.	Square Signs LLC dba Front Signs, Burbank	$435,015.85
2.	Green Giant Landscape, Inc., La Habra	$438,636.10
3.	Bravo Sign and Design, Inc., Anaheim	$537,885.70
4.	US Builders and Consultants, Inc., Irvine	$714,700.10

Square Signs was the lowest responsive bidder. They are a state licensed contactor with verified successful construction experience in the field with other nearby municipalities throughout Southern California. They will be required to meet all bonding and financial standards.

Construction support services for the project will be amended to the DVD's consultant's

existing design contract as an additional service agreement in the amount of $12,000.

Staff recommends that the City Council approve the award of the construction contract for the Park Electronic Signage Project, JN 529 to Square Signs in the amount of $435,015.85 and additionally:

a. Approve the Plans and Specifications.
b. Approve the Construction Support Services to DVD in the amount of $12,000.
c. Approve a 20% of the construction award amount, $87,000, to be utilized for the project Contingency.
d. Declare this project to be Categorically exempt under CEQA, Class 1, Section 15301, as rehabilitation of existing facilities.

FINANCIAL IMPACT/COST:

Source of Funds

Park Land in Lieu	$600,833
Total	**$600,833**

Estimated Expenditures

Design Phase Expenditures	$24,240
Construction Support Services and Job Cost	$20,000
Construction Contract Award	$435,015.85
20% Project Contingency	$87,000
Total	**$566,255.85**

ATTACHMENTS:

Square Signs Bid.pdf
Approved Rowley Park Plans.pdf
Notice of Exemption JN 529.pdf
Construction Support Proposal - DVD.pdf
JN 529_Project Location Map.pdf
Rowley Park Specifications & Contract Docs.pdf
Rowley Park Reader Sign Board Rendering.pdf

APPROVED:

_____

Clint Osorio, City Manager

BID PROPOSAL (BP)

PARK ELECTRONIC SIGNAGE
ROWLEY PARK

JN 529

Contractor:	SQUARE SIGNS LLC DBA FRONT SIGNS
Address:	3520 VALHALLA DRIVE, BURBANK, CA 91505
Phone:	818 290 3269
Fax:	N/A
License No.:	1053708
D.I.R. No.	100073634
Email:	proc@squaresigns.com

To Be Submitted

WITH

Bid Package

BID PROPOSAL

PROJECT NO. JN 529

BID SCHEDULE

The undersigned, having examined the proposed Contract Documents titled:

PARK ELECTRONIC SIGNAGE

and having visited the site and examined the conditions affecting the work, hereby proposes and agrees to furnish all labor, materials, equipment, and appliances, and to perform operations necessary to complete the work as required by said proposed Contract Documents and itemized bid schedule below. All work shall be completed within **30 Working Days** from the date the Notice of Proceed is issued by the Engineer.

Item No.	Item Description	Unit	Approx. Quantity	Unit Price in Figures	Item Total
1	Traffic Control & Public Safety	LS	LS	$ 13,500.00	$ 13,500.00
2	Best Management Practices	LS	LS	$ 8,600.00	$ 8,600.00
3	Clear & Grubbing	LS	LS	$2,700.00	$ 2,700.00
4	Demolition & Removals	LS	LS	$ 4,600.00	$ 4,600.00
5	Temporary Construction Fencing	LS	LS	$ 2,200.00	$ 2,200.00
6	6" Curb	LF	250	$72.80	$18,200.00
7	Soil Preparation & Fine Grading	SF	1,130	$ 7.80	$ 8,814.00
8	Weed Abatement	SF	1,130	$ 2.40	$ 2,712.00
9	Remove 18" Soil, AC, Base, etc.	LS	LS	$ 2,200.00	$ 2,200.00
10	Import 18" Class A Top Soil	LS	LS	$ 1,400.00	$1,400.00
11	Trees – 24" Box	EA	1	$1,400.00	$1,400.00

12	Shrubs – 5 Gal	EA	119	$114.00	$ 13,566.00
13	Irrigation Modification	LS	LS	$ 15,300.00	$15,300.00
14	Wood Mulch (3" Layer)	LS	LS	$3,536.00	$ 3,536.00
15	Ninety (90) Day Maintenance	LS	LS	$5,000.00	$5,000.00
16	LED Readerboard Sign	LS	LS	$ 295,470.00	$295,470.00
17	AC Cut & Patch	LS	LS	$6,900.00	$6,900.00
18	Backfill AC Trench	LS	LS	$ 2,800.00	$ 2,800.00
19	3#4 1#8GRD – 1-1/4"C	LS	LS	$ 4,600.00	$4,600.00
20	1-1/2"C	LS	LS	$ 2,094.75	$ 2,094.75
21	Pull Box 17x12x12	EA	3	$ 441.00	$ 1,323.00
22	Electrical Services and Controls	LS	LS	$ 9,400.00	$ 9,400.00
23	Building and Safety Permit	LS	LS	$8,700.10	$8,700.10

BID SCHEDULE (Continued)

TOTAL CONTRACT BID:

(Figures) $ 435,015.85

(Words) Four hundred thirty-five thousand fifteen dollars and eighty-five cents.

*** In case of error in extension of price into the total price column, the unit price will govern.**

All work required and shown on the construction plans and this specification for which no price or item is listed on this proposal, it shall be understood that such work, equipment, labor, tools and materials shall be provided without extra charge, allowance or direct payment of any kind. Payment for performing such work or furnishing such equipment, labor, tools and materials shall be included in the above lump sum or unit bid prices and no additional compensation will paid therefor.

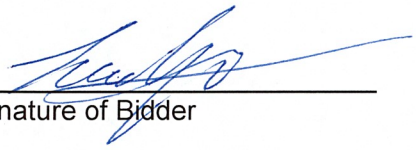
If the City determines that any of the unit bid prices are significantly unbalanced to the potential detriment of the City, the bid will be replaced as non-responsive.

In case of any discrepancy between the words and the figures, the words shall prevail. If the unit price and the total amount for any item are not in agreement, the unit price alone shall be considered to represent the bidder's intention and all totals will be corrected to conform thereto.

Attached hereto is cash, a certified check, a cashier's check, or a bidder's bond in the amount of _____Dollar s, said amount being not less than 10 percent of the amount bid. Pursuant to Public Contract Code Sections 20172 and 20174, it is agreed a portion equal to the difference between the low bid and second low bid shall be retained as a bid bond forfeiture by the City if the undersigned fails or refuses to execute the Contract and furnish the required bonds and certificates of insurance within the time provided.

SQUARE SIGNS LLC DBA FRONT SIGNS

Name of Bidder



Signature of Bidder

BID PROPSOAL

PROJECT NO. JN 529

ACKNOWLEDGEMENT OF ADDENDA RECEIVED

The Bidder shall acknowledge the receipt of addenda by number and date each addendum received.

Addendum No. ____ Date _____ Addendum No. ____ Date _____

Addendum No. ____ Date _____ Addendum No. ____ Date _____

Addendum No. ____ Date _____ Addendum No. ____ Date _____

Addenda will be issued only through the ARC Document Solutions and access under their "Planrooms"/"Order From Planwell" (https://www.e-arc.com/location/costa-mesa/). It is the Bidder's sole responsibility to visit the Planroom to obtain and administer any Addendum related to this bid. **An Addendum must be acknowledged above by a bidder in its submitted form of Proposal.**

If an addendum or addenda has been issued by the City and not noted above as being received by the Bidder, the Bid Proposal may be rejected.

_____ 01/29/2025

Bidder's Signature Date

BID PROPOSAL

PROJECT NO. JN 529

BIDDER'S DECLARATION

It is understood and agreed that:

1. The undersigned has carefully examined all documents which will form a part of the Contract; namely, the Notice Inviting Bids, the Instructions to Bidders, this Proposal, the Bid Bond, the Contract, the Faithful Performance Bond, the Payment Bond, the federal requirements, if any, the Plans and Specifications, the Special Provisions, and the Technical Provisions.

2. The undersigned has, by investigation at the site of the work and otherwise, satisfied himself as to the nature and location of the work and fully informed himself as to all conditions and matters, which can in any way affect the work or the cost thereof.

3. The undersigned fully understands the scope of work and has checked carefully all words and figures inserted in this Proposal and he further understands that the City will not be responsible for any errors or omissions in the preparation of the Proposal.

4. The undersigned agrees and acknowledges that he is aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and that the undersigned will comply with such provisions before commencing the performance of the Contract if it is awarded to the undersigned.

The undersigned will execute the Contract and furnish the required statutory bonds and certificates of insurance within the period of time specified in the Contract Documents.

The undersigned will begin work after award of Contract and a Notice to Proceed has been given as herein specified and will complete said work within the time specified in the Bidding Schedule.

5. The undersigned certifies that this Proposal is genuine and not sham or collusive, or made in the interest or on behalf of a person not herein named, and the undersigned has not directly or indirectly induced or solicited any other bidder to put in a sham bid nor induced any other person, firm, or corporation to refrain from bidding. The undersigned has not in any manner sought by collusion to secure for himself any advantage over any other bidder.

6. The undersigned will accept an award and enter into a Contract for all work scheduled herein on which he puts in a bid. The awards for such work are to be entirely at the discretion of the City after evaluation of the bids as submitted. The undersigned agrees that the City shall recover or retain as a bid bond forfeiture an amount equal to the difference between the low bid and amount of the bid of the bidder with whom the City enters into a Contract, and the surplus, if any, shall be returned to the lowest bidder in accordance with the provisions of the Public Contract Code Sections 20172 and 20174 in the event of his failure to execute a Contract and furnish required bonds and insurance therefor within the time provided.

BIDDER'S DECLARATION (Continued)

7. The undersigned bidder stated under penalty of perjury that the representations made in submitting this bid are, to the best of his/her knowledge, true, accurate, and complete.

Respectfully submitted,

SQUARE SIGNS LLC DBA FRONT SIGNS	CEO
Contractor's Business Name	Contractor (Print) Title
3520 Valhalla Drive	CEP
Business Address: Street	Signature Title
Burbank CA 91505	1053708 C45
City State Zip	Contractor's License No. and Classification
818 290 3269	N/A
Business Phone Number	Business Fax Number
01/29/2025	
Date	
GEVORG HAMBARDZUMYAN, CEO	HORSEHAVEN STREET
Name Title	Residence: Street
SUN VALLEY CA 91352	747 231 9924
City State Zip	Residence Phone Number

Note: If the bid is made by an individual, it must be signed with the full name of the bidder, whose address must be given: if it is made by a firm, it must be signed in the co-partnership's name by a general partner thereof, who shall also sign his or her own name, and the name and full address of each partner (general and/or limited) must be given; and if it is made by a corporation, it must be signed by a properly authorized officer, the corporate name shall be set forth, and the corporate seal shall be affixed.

BID PROPOSAL

PROJECT NO. JN 529

NON-COLLUSION AFFIDAVIT

(To be executed by Bidder and submitted with Bid)

State of California

County of Los Angeles

Gevorg Hambardzumyan being first duly sworn, deposes and says that he or she is CEO of Square Signs LLC dba Front Signs the party making the foregoing bid, that the bid is not made in the interest of, or on the behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay fee to any corporation, or agent thereof to effectuate a collusive or sham bid.

Square Signs LLC dba Front Signs

NAME OF BIDDER

SIGNATURE OF BIDDER

3520 Valhalla Drive

ADDRESS OF BIDDER

Burbank, CA 91505

CITY STATE ZIP

ALL SIGNATURES MUST BE WITNESSED BY NOTARY
(attach appropriate jurats)

TO BE SUBMITTED WITH PROPOSAL

CALIFORNIA JURAT **GOVERNMENT CODE § 8202**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of Los Angeles

Subscribed and sworn to (or affirmed) before me on

this 27th day of January, 2025, by

Date *Month* *Year*

(1) Gevorg Hambardzumyan

(and (2) _____),

Name(s) of Signer(s)

proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

MOE AZARAN
Notary Public - California
Los Angeles County
Commission # 2460205
My Comm. Expires Aug 21, 2027

Place Notary Seal and/or Stamp Above

Signature _____

Signature of Notary Public

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Bid Proposal (Non-Collusion Affidavit)

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

©2019 National Notary Association

BID PROPOSAL

PROJECT NO. JN 529

DECLARATION OF ELIGIBILITY TO CONTRACT

[Labor Code Section 1777.1; Public Contract Code Section 6109]

The undersigned, a duly authorized representative of the contractor, certifies and declares that:

1. The undersigned contractor is aware of Sections 1777.1 and 1777.7 of the California Labor Code, which prohibit a contractor or subcontractor who has been found by the Labor Commissioner or the Director of Industrial Relations to be in violation of certain provisions of the Labor Code, from bidding on, being awarded, or performing work as a subcontractor on a public works project for specified periods of time.

2. The undersigned contractor is not ineligible to bid on, be awarded or perform work as a subcontractor on a public works project by virtue of Sections 1771.1 or 1777.7 of the California Labor Code or any other provision of law.

3. The undersigned contractor is aware of California Public Contract Code Section 6109, which states:

> "(a) A public entity, as defined in Section 1100 [of the Public Contract Code], may not permit a contractor or subcontractor who is ineligible to bid or work on, or be awarded, a public works project pursuant to Section 1777.1 or 1777.7 of the Labor Code to bid on, be awarded, or perform work as a subcontractor on, a public works project. Every public works project shall contain a provision prohibiting a contractor from performing work on a public works project with a subcontractor who is ineligible to perform work on the public works project pursuant to Section 1771.1 or 1777.7 of the Labor Code."
>
> "(b) Any contract on a public works project entered into between a contractor and a debarred subcontractor is void as a matter of law. A debarred subcontractor may not receive any public money for performing work as a subcontractor on a public works contract, and any public money that may have been paid to a debarred subcontractor by a contractor on the project shall be returned to the awarding body. The contractor shall be responsible for the payment of wages to workers of a debarred subcontractor who has been allowed to work on the project."

4. The undersigned contractor has investigated the eligibility of each and every subcontractor the undersigned contractor intends to use on this public works project, and has determined that none of them are ineligible to perform work as a subcontractor on a public works project by virtue of the foregoing provisions of the Public Contract Code, Sections 1771.1 or 1777.7 of the Labor Code, or any other provision of law.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed this 29 day of January, 2025, at Burbank _____ *(place of execution)*, California 91505.

Signature: _____ Name: Gevorg Hambardzumyan

Title: CEO Company: Square Signs LLC dba Front Signs

BID PROPOSAL

PROJECT NO. JN 529

DESIGNATION OF SUBCONTRACTORS

In compliance with the "Subletting and Subcontracting Fair Practices Act" being Sections 4100-4113 of the Public Contract Code of the State of California, and any amendments thereto, each bidder shall set forth below the name and location of the place of business of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement in an amount in excess of one-half (1/2) of one percent (1%) of the prime contractor's total bid, and shall further set forth the portion of the work which will be done by each subcontractor. Only one subcontractor for each such portion shall be listed.

If the contractor fails to specify a subcontractor for any portion of the work to be performed under the contract, he shall be deemed to have agreed to perform such portion himself, and he shall not be permitted to subcontract that portion of the work except under the conditions hereinafter set forth.

Subletting or subcontracting of any portion of the work to which subcontractor was designated in the original bid shall only be permitted in cases of public emergency or necessity, and then only after a finding reduced to writing as a public record of the legislative body of the City.

Portion of Work %	Subcontractor's Name & Address	Type of Work	State License Number	Class	D.I.R. Number
n/a	n/a	n/a	n/a	n/a	n/a

Not more than _____%.

TO BE SUBMITTED WITH PROPOSAL

BID PROPOSAL

PROJECT NO. JN 529

CONSTRUCTION PROJECT REFERENCE

In order to more fully evaluate your background and experience for the project herein proposed, please submit a list of Public Works and/or similar construction projects completed or in progress within the last three (3) years. Failure to provide this information may constitute grounds for rejection of your bid as non-responsive.

Number of years as a contractor in construction work of this type: over 5 years

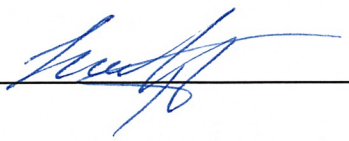
Three projects of this type recently completed:

1. Name (Firm/Agency): City of Clearlake
   Address: 14050 Olympic Dr., Clearlake, CA 95422
   Contact Person: Trystan Hayes Telephone No.: (971) 241-5895
   Title of Project: Clearlake 3 Digital Monument Signs
   Project Location: 3245 Bowers Ave, Clearlake, CA 95422
   Date of Completion: December 2024 Contract Amount: $378,356.25

2. Name (Firm/Agency): City of El Segundo
   Address: 100 W Imperial Ave, El Segundo, CA 90245
   Contact Person: Cheryl Ebert Telephone No.:
   Title of Project: Imperial Highway Monument Sign Project
   Project Location: 100 W Imperial Ave, El Segundo, CA 90245
   Date of Completion: December 2024 Contract Amount: $ 417,210.72

3. Name (Firm/Agency): City of Lancaster
   Address: 44933 Fern Ave, Lancaster, California, 93534
   Contact Person: Kenji Stiles Telephone No.: 661.945.6883
   Title of Project: Lancaster Auto Mall Dealership Signs Project
   Project Location: Motor Ln, Lancaster, CA 93534
   Date of Completion: September 2024 Contract Amount: $ 1,317,937.24

NOTE: If requested by the City, the bidder shall furnish a certified financial statement, references, and other information sufficiently comprehensive to permit an appraisal of his current financial condition.

Bidder's Signature 

TO BE SUBMITTED WITH PROPOSAL

BID PROPOSAL

PROJECT NO. JN 529

CERTIFICATE OF NON-DISCRIMINATION BY CONTRACTORS

As suppliers of goods or services to the City, the firm listed below certifies that it does not discriminate in its employment with regard to race, color, religion, sex, or national origin; that it is in compliance with all applicable federal, state, and local directives, and executive orders regarding non-discrimination in employment; and that it agrees to pursue positively and aggressively the principle of equal opportunity in employment.

We agree specifically:

1. To establish or observe employment policies which affirmatively promote opportunities for minority persons at all job levels.

2. To communicate this policy to all persons concerned, including all company employees, outside recruiting services, especially those serving minority communities, and to the minority communities at large.

3. To take affirmative steps to hire minority employees within the company.

FIRM Square Signs LLC dba Front Signs

TITLE OF PERSON SIGNING CEO

SIGNATURE

DATE 01/29/2025

Please include any additional information available regarding equal opportunity employment programs now in effect within your company:

Our hiring decisions are guided by the principles of professionalism, qualifications, and relevant experience. We uphold a strict policy of non-discrimination and do not make employment decisions based on race, religion, gender, or any other legally protected category. We are proud of our diverse workforce and remain dedicated to maintaining an inclusive and equitable workplace for all.

As part of our commitment to equal opportunity employment, we actively participate in programs designed to promote diversity and inclusion. These initiatives include targeted outreach to underrepresented groups, ongoing training on equity and inclusion for all employees, and robust accommodations for individuals with disabilities.We continuously review and refine our policies to ensure alignment with industry best practices and to foster a workplace culture where everyone has the opportunity to succeed.

BID PROPOSAL

PROJECT NO. JN 529

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION – PRIMARY COVERED TRANSACTIONS

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS ON NEXT PAGE)

The Contractor shall not perform Work with any Subcontractor that has been debarred or suspended pursuant to California Labor Code Section 1777.1 or any other federal or State law providing for the debarment of contractors from public works. The Contractor and Subcontractors shall not be debarred or suspended throughout the duration of the Contract pursuant to Labor Code Section 1777.1 or any other federal or State law providing for the debarment of contractors from public works. If the Contractor or any Subcontractor becomes debarred or suspended during the duration of the Project, the Contractor shall immediately notify the City.

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

    a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

    b. Have not within a 5-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, or receiving stolen property;

    c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and

    d. Have not within a 5-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Signature: _____ Name: Gevorg Hambardzumyan

Title: CEO Company: Square Signs LLC dba Front Signs

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION – PRIMARY COVERED TRANSACTIONS (Continued)

INSTRUCTIONS FOR CERTIFICATION

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.
4. The prospective primary participant shall provide immediate written notice to the department or agency to which this proposal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations (13 CFR Part 145).
6. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.
7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transactions," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the ineligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

BID PROPOSAL

PROJECT NO. JN 529

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

THAT Square Signs LLC dba Front Signs, as Principal, and Great American Insurance Company, as Surety, are held firmly bound unto the City of Gardena in the sum of $10%; Ten Percent of the Amount Bid DOLLARS,
(not less than ten percent of total amount of bid)
for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a bid to the City to perform all work required under the following:

PROJECT: **ROWLEY PARK ELECTRONIC SIGN, JN 529**

NOW, THEREFORE, if said Principal is awarded a Contract by the City and, within the time and in the manner required in the Specifications for said project, enters into the written form of Contract bound with said Specifications and furnishes the required bonds, one to guarantee faithful performance and the other to guarantee payment for labor and materials, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by the City and judgment is recovered, said Surety shall pay all costs incurred by the City in such suit, including a reasonable attorneys' fee to be fixed by the court. Surety hereby waives the provisions of California Civil Code §2845.

SIGNED AND SEALED, this *day of January, 2025.
*23rd

Square Signs LLC dba Front Signs (SEAL)
Principal
GEVORG HAMBARDZUMYAN
BY: _____
Signature

Great American Insurance Company (SEAL)
Surety
BY: _____
Signature Shaunna Rozelle Ostrom, Attorney-in-Fact

Note: This bond must be dated, all signatures must be notarized, and evidence of the authority of any person signing as attorney–in-fact must be attached.

ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Orange)

On 01/23/2025 before me, Melissa Ann Vaccaro, Notary Public
(insert name and title of the officer)

personally appeared Shaunna Rozelle Ostrom,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

MELISSA ANN VACCARO
COMM. #2401942
Notary Public-California
ORANGE COUNTY
My Comm. Expires May 12, 2026
FRS3 FRS3

Signature _____ **(Seal)**
Melissa Ann Vaccaro

GREAT AMERICAN INSURANCE COMPANY®

Administrative Office: 301 E 4TH STREET • CINCINNATI, OHIO 45202 • 513-369-5000 • FAX 513-723-2740

The number of persons authorized by
this power of attorney is not more than NINE

No. 0 14489

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That the GREAT AMERICAN INSURANCE COMPANY, a corporation organized and existing under and by virtue of the laws of the State of Ohio, does hereby nominate, constitute and appoint the person or persons named below, each individually if more than one is named, its true and lawful attorney-in-fact, for it and in its name, place and stead to execute on behalf of the said Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; provided that the liability of the said Company on any such bond, undertaking or contract of suretyship executed under this authority shall not exceed the limit stated below.

Name		Address	Limit of Power
DANIEL HUCKABAY	SHAUNNA ROZELLE OSTROM	ORANGE, CALIFORNIA	ALL
ARTURO AYALA	FRANK MORONES	ORANGE, CALIFORNIA	$100,000,000
ADRIAN LANGRELL	CHELSEA LIBERATORE	ORANGE, CALIFORNIA	
MICHAEL D. STONG	BEN STONG	RIVERSIDE, CALIFORNIA	
R. NAPPI		RIVERSIDE, CALIFORNIA	

This Power of Attorney revokes all previous powers issued on behalf of the attorney(s)-in-fact named above.

IN WITNESS WHEREOF the GREAT AMERICAN INSURANCE COMPANY has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 22ND day of NOVEMBER , 2024 .

Attest

GREAT AMERICAN INSURANCE COMPANY

Assistant Secretary

Divisional Senior Vice President

JOHN K. WEBSTER (877-377-2405)

STATE OF OHIO, COUNTY OF HAMILTON - ss:

On this 22ND day of NOVEMBER , 2024 , before me personally appeared JOHN K. WEBSTER, to me known, being duly sworn, deposes and says that he resides in Cincinnati, Ohio, that he is a Divisional Senior Vice President of the Bond Division of Great American Insurance Company, the Company described in and which executed the above instrument; that he knows the seal of the said Company; that the seal affixed to the said instrument is such corporate seal; that it was so affixed by authority of his office under the By-Laws of said Company, and that he signed his name thereto by like authority.

SUSAN A KOHORST
Notary Public
State of Ohio
My Comm. Expires
May 18, 2025

This Power of Attorney is granted by authority of the following resolutions adopted by the Board of Directors of Great American Insurance Company by unanimous written consent dated June 9, 2008.

RESOLVED: That the Divisional President, the several Divisional Senior Vice Presidents, Divisional Vice Presidents and Divisonal Assistant Vice Presidents, or any one of them, be and hereby is authorized, from time to time, to appoint one or more Attorneys-in-Fact to execute on behalf of the Company, as surety, any and all bonds, undertakings and contracts of suretyship, or other written obligations in the nature thereof; to prescribe their respective duties and the respective limits of their authority; and to revoke any such appointment at any time.

RESOLVED FURTHER: That the Company seal and the signature of any of the aforesaid officers and any Secretary or Assistant Secretary of the Company may be affixed by facsimile to any power of attorney or certificate of either given for the execution of any bond, undertaking, contract of suretyship, or other written obligation in the nature thereof, such signature and seal when so used being hereby adopted by the Company as the original signature of such officer and the original seal of the Company, to be valid and binding upon the Company with the same force and effect as though manually affixed.

CERTIFICATION

I, STEPHEN C. BERAHA, Assistant Secretary of Great American Insurance Company, do hereby certify that the foregoing Power of Attorney and the Resolutions of the Board of Directors of June 9, 2008 have not been revoked and are now in full force and effect.

Signed and sealed this 23rd day of January , 2025 .

Assistant Secretary

CALIFORNIA ACKNOWLEDGMENT CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California
County of Los Angeles }

On 01-24-2025 before me, Moe Azaran (notary pub lic)
Date *Here Insert Name and Title of the Officer*

personally appeared Gevorg Hambardzumyan
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

MOE AZARAN
Notary Public - California
Los Angeles County
Commission # 2460205
My Comm. Expires Aug 21, 2027

Place Notary Seal and/or Stamp Above

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____
Signature of Notary Public

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Bid Bond

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____	Signer's Name: _____
☐ Corporate Officer – Title(s): _____	☐ Corporate Officer – Title(s): _____
☐ Partner – ☐ Limited ☐ General	☐ Partner – ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
☐ Other: _____	☐ Other: _____
Signer is Representing: _____	Signer is Representing: _____

©2019 National Notary Association

ATTENTION: CITY, c/o CITY CLERK

Bidder's Name and Address: Square Signs LLC dba Front Signs
3520 Valhalla Drive, Burbank, CA 91505

Number and title of this project: "BID ON PROJECT NO. JN 529 PARK ELECTRONIC SIGNAGE ROWLEY PARK

'25 JAN28AM10:12

CITY CLERK'S OFC

1

City of Gardena
1700 W. 162nd Street, Gardena, California
90247-3778
Attention: City Clerk
"BID
ON PROJECT NO. JN 529.

CITY OF GARDENA
CONSTRUCTION PLANS
FOR
PARK ELECTRONIC SIGNAGE
ROWLEY PARK
J.N. 529

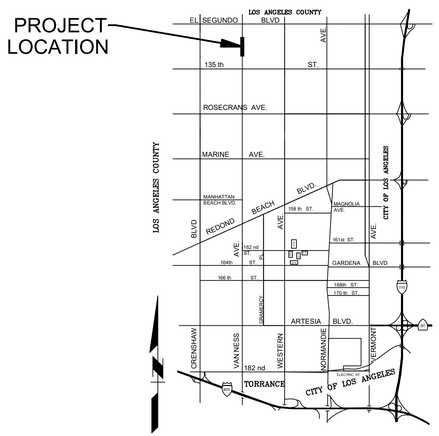
REVIEWED FOR CODE COMPLIANCE
USING THE FOLLOWING CODES:
- ☐ 2022 CALIFORNIA RESIDENTIAL CODE
- ☑ 2022 CALIFORNIA BUILDING CODE
- ☑ 2022 CALIFORNIA ELECTRICAL CODE
- ☑ 2022 CALIFORNIA PLUMBING CODE
- ☑ 2022 CALIFORNIA MECHANICAL CODE
- ☑ 2022 CALIFORNIA ENERGY CODE
- ☑ 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- ☐ 2021 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
- ☐ 2022 CALIFORNIA FIRE CODE
- ☐ OTHER: _____

COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.

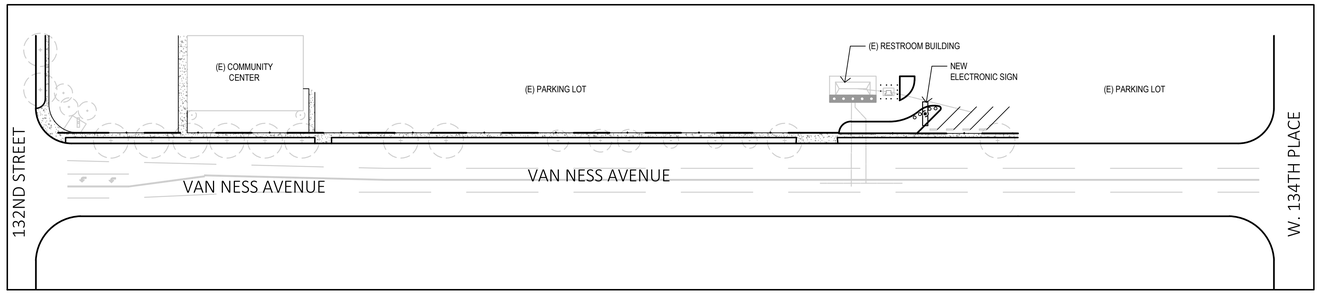
BY: bpr.rserrato DATE: Oct 16, 2024

CITY OF GARDENA

Rev 1 only



VICINITY MAP
N.T.S.



ROWLEY PARK SITE MAP

Scale: 1" = 60'-0"
0 30' 60' 120'
NORTH

SHEET INDEX

SHEET NO.	SHEET DESCRIPTION	FILE NO.
1	TITLE SHEET	T.1
2	DEMOLITION PLAN	D.1
3	LANDSCAPE CONSTRUCTION MATERIALS SCHEDULE AND PLAN	LC.1
4	LANDSCAPE CONSTRUCTION DETAILS	LD.1
5	LANDSCAPE CONSTRUCTION DETAILS	LD.2
6	LANDSCAPE CONSTRUCTION DETAILS	LD.3
7	IRRIGATION LEGEND, PLAN, AND NOTES	LI.1
8	IRRIGATION DETAILS	LI.2
9	PLANTING LEGEND AND PLAN	LP.1
10	PLANTING DETAILS AND NOTES	LP.2
11	ELECTRICAL LEGENDS & NOTES	E0.1
12	SINGLE LINE DIAGRAM	E0.2
13	ELECTRICAL SITE PLAN	E1.1
14	ELECTRICAL SPECIFICATIONS	E2.1
15	STRUCTURAL DETAIL	S-1

UTILITY CONTACT NUMBERS:

COMPANY	CONTACT	TELEPHONE NO.
CITY OF GARDENA P.W. TRAFFIC/ELECTRICAL	JEFF JALOMO	(310) 217-9430
CITY OF GARDENA P.W. SEWER	JOHN SCHERER	(310) 217-9599
METRO. WATER DISTRICT	CIVIL ENG. SUBSTRUCTURE SEC.	(213) 217-7059
L.A. DEPARTMENT OF WATER & POWER	JOSE PORRAS	(213) 367-1049
L.A. SANITATION DISTRICT	JON GANZ	(562) 908-4288
L.A. COUNTY FLOOD CONTROL DISTRICT	DARYLL CHENOWETH	(626) 458-3709
CHEVRON PIPELINE CO.	DAVE ZERLER	(310) 669-4014
CROWN CASTLE	HECTOR AGUILERA	(951) 454-5111
SOUTHERN CALIFORNIA EDISON COMPANY	JOSHUA REMIJIO	(562) 882-2883
SOUTHERN CALIFORNIA GAS COMPANY	SALVADOR GONZALES	(310) 970-4844
GOLDEN STATE WATER CO.	JOSEPH SALICIDO CONDE VENTURA	(310) 660-0320 X101 (310) 701-2500
AT&T/SBC/PACIFIC BELL	RAYMOND DOVE MARCO A. PEREZ	(310) 515-4257 (626) 491-5503
TIME WARNER/SPECTRUM	ARTURO FERNANDEZ	(310) 750-9099
CALIFORNIA UNDERGROUND SERVICE ALERT (USA)		(800) 422-4133

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE STARTING WORK.
2. THE ENGINEER DOES NOT WARRANT THE ACCURACY OF SCALED DIMENSIONS ON ANY PLAN. ALL DIMENSIONS SHALL BE AS DESIGNATED ON THE PLANS. THE CONTRACTOR SHALL PROTECT ALL PUBLIC AND PRIVATE PROPERTY
3. DURING THE PERFORMANCE OF WORK DONE UNDER THE CONTRACT. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO AVOID ANY DAMAGE TO ANY STRUCTURES ADJACENT TO THE PROJECT BOUNDARIES.
4. EXISTING UTILITIES SHOWN ARE BASED ON AVAILABLE RECORDS OF PARENT UTILITY COMPANIES AND MAY NOT ACCURATELY REPRESENT THEIR ACTUAL LOCATIONS. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE ACTUAL LOCATIONS (VERTICAL AND HORIZONTAL) OF ALL UTILITIES, IN THE FIELD OR COORDINATE SUCH INDEPENDENT VERIFICATION WITH THE PARENT UTILITY COMPANIES AND PROVIDE THE CITY WITH THE POTHOLE INFORMATION. THE CONTRACTOR SHALL PROTECT IN PLACE OR COORDINATE WITH PARENT COMPANY FOR THE RELOCATION OF CONFLICTING UTILITIES ENCOUNTERED DURING CONSTRUCTION.
5. ADJUST UTILITY VALVE COVERS, UTILITY BOXES, TRAFFIC SIGNAL BOXES, ETC. TO FINISH GARDE. PAYMENT SHALL BE INCLUDED IN THE APPLICABLE CONSTRUCTION BID ITEM AND REFER TO CONSTRUCTION NOTE AND/OR SPECIFICATIONS.
6. PROVIDE TRAFFIC CONTROL PER TECHNICAL PROVISIONS.
7. ALL SURVEY CENTERLINE TIES AND MONUMENTS THAT ARE DAMAGED OR REMOVED SHALL BE RE-ESTABLISHED.
8. INSPECTIONS REQUIRED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION, OBTAINING NECESSARY APPLICABLE PERMITS WITH LOCAL AGENCIES AND OTHER OWNERS HAVING JURISDICTION AND PREPARING REQUIRED DOCUMENTATION NECESSARY FOR PERMITTING.
10. PROTECT ALL STORM DRAINS, CATCH BASINS, ETC. WITH SAND BAGS, FABRIC, AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES.
11. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT 1-800-422-4133 TWO WORKING DAYS PRIOR TO ANY EXCAVATION WORK.

APPLICABLE CODES:

ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF:

1. THIS PROJECT IS SUBJECT TO BOTH SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATION PER CALIFORNIA BUILDING CODE (CBC) CHAPTER 17.
2. THE CITY OF GARDENA STANDARD PLANS.
3. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK).
4. REINFORCED CONCRETE PER CBC 1705.3..
5. DEEP FOUNDATION PER CBC 1705.8.
6. WELDING PER 2022 CBC.

DESIGN TEAM

OWNER
CITY OF GARDENA
1717 WEST 162ND STREET
GARDENA, CA 90247
CONTACT: JUN DE CASTRO
PHONE: 310-217-9642

LANDSCAPE ARCHITECT
DAVID VOLZ DESIGN
151 KALMUS DRIVE, SUITE M8
COSTA MESA, CA 92626
CONTACT: ERIC STERLING
PHONE: 714-501-8791

ELECTRICAL ENGINEER
DESIGN WEST ENGINEER
412 E. VANDERBILT WAY
SAN BERNADINO, CA 92408
CONTACT: ROY MORALES
PHONE: 909-890-3700

STRUCTURAL ENGINEER
SHUCRI YAGHI CONSULTING ENGINEERS, INC.
112 E. CHAPMAN AVE, SUITE D
ORANGE, CA 92866
CONTACT: ABE YAGHI
PHONE: 714-997-9120

DIGALERT
DIAL TOLL FREE: 811
1-800-422-4133
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

PREPARED BY:
REGISTERED LANDSCAPE ARCHITECT GARY M. VASQUEZ NO. 5883 SIGNATURE EXP. Feb. 2025 6-30-2023 DATE STATE OF CALIFORNIA

GARY VASQUEZ
R.L.A. NO. 3883
DATE
EXP 02/31/2025

David Volz Design
Landscape Architects And Park Planners
Coorporate Office: 151 Kalmus Drive, Suite M8,
Costa Mesa, CA 92626
Phone: 714.641.1300

NO.	REVISIONS	DATE	BY	APP.
1	REVISION 1	10-02-24		

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION
TITLE SHEET
PROJECT: ROWLEY PARK ELECTRONIC SIGN
LIMITS:
T.1

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES	

APPROVED BY: Allan Rigg DATE 10/17/24
P.W. DIRECTOR/CITY ENGINEER R. C. E. NO.
SHT. 1 OF 15
DWG. NO. 5-2615

FILE PATH: W:\CITY OF GARDENA\ROWLEY PARK READER SIGN BOARD\03 – CONSTRUCTION DOCUMENTS\$TITLE SHEET.DWG, PLOT TIME: 10/4/2024 2:03:47 PM

GENERAL DEMOLITION NOTES

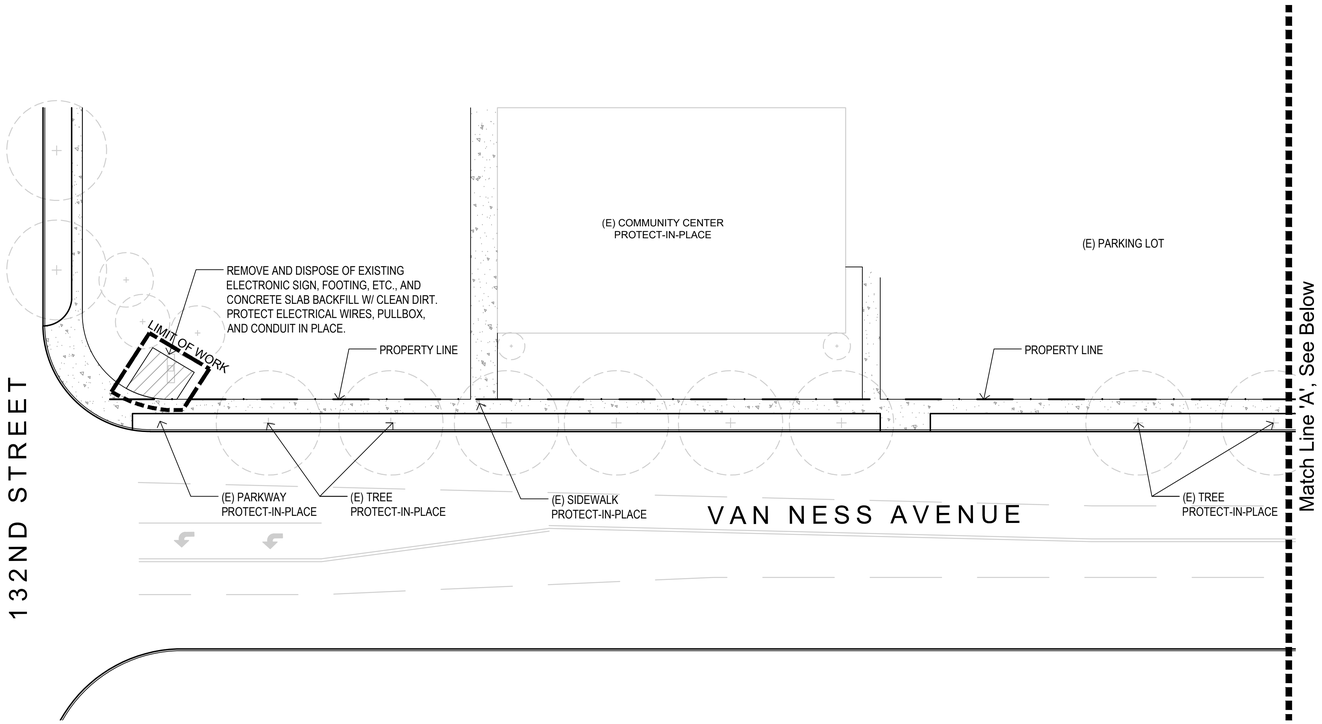
1. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS AND AGENCY INSPECTIONS PRIOR TO DEMOLITION.
2. ALL DISPOSAL ITEMS SHALL BE MARKED AND IDENTIFIED BY THE CONTRACTOR PRIOR TO REMOVAL. ALL DISPOSAL ITEMS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO REMOVAL.
3. THE CONTRACTOR SHALL PROTECT-IN-PLACE ALL TREES, SHRUBS, AND GROUND COVER UNLESS INDICATED OTHERWISE ON THE DEMOLITION PLAN. THE CONTRACTOR TO REPAIR TURF, SHRUBS, OR TREES DAMAGED DUE TO CONTRACTOR'S OPERATIONS.
4. DISPOSAL OF ALL REMOVED ITEMS DURING DEMOLITION OF THIS SITE SHALL BE DISPOSED AND/OR SALVAGED ACCORDING TO ALL APPLICABLE FEDERAL, STATE AND/OR CITY ORDINANCES AND LAWS.
5. DUST SHALL BE CONTROLLED BY WATERING.
6. DEMOLITION OPERATIONS WILL BE CONSIDERED COMPLETE UPON SATISFACTION AND WRITTEN APPROVAL BY THE CITY'S DESIGNATED REPRESENTATIVE.
7. THE CONTRACTOR SHALL INSTALL A MIN. 6' HIGH CONSTRUCTION FENCE. WITH PRIVACY SCREEN.
8. CONSTRUCTION FENCE SHALL BE IN-PLACE AROUND PERIMETER OF SITE PRIOR TO ANY AND ALL CONSTRUCTION OPERATIONS. CONTRACTOR SHALL MAINTAIN FENCE IN GOOD CONDITION AND UPRIGHT AT ALL TIMES SO AS TO KEEP SITE SECURE AND TO NOT BE A HAZARD TO THE PUBLIC. THE CONSTRUCTION FENCE SHALL BE ADJUSTED AS NEEDED.

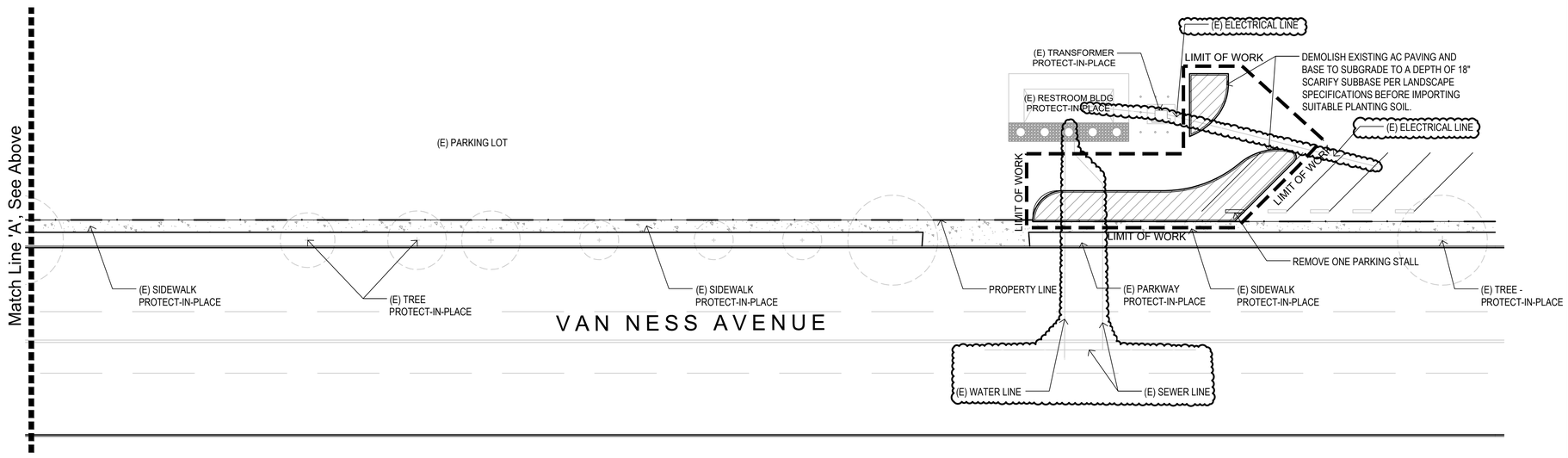
   THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AN ACCESSIBLE PATH AT ALL TIMES WITHIN THE PUBLIC RIGHT-OF-WAY. IF TEMPORARY CLOSURES ARE NEEDED TO THE SIDEWALK, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY ENGINEER FOR APPROVAL.

   CONSTRUCTION FENCE AND ACCESS GATE SHALL BE LOCKED AND SECURE AT THE END OF EACH DAY. A COMBINATION LOCK SHALL BE USED AND THE COMBINATION SHALL BE REPORTED TO THE POLICE, FIRE AND CITY IN CASE OF EMERGENCY. CONSTRUCTION FENCE TO REMAIN IN-PLACE UNTIL REMOVAL IS APPROVED BY THE CITY.
9. THE CONTRACTOR SHALL GIVE NOTICE TO AND COORDINATE WITH UTILITY AGENCIES.

PROTECT-IN-PLACE THE FOLLOWING ITEMS:

1. PRESSURE MAINLINE, BACKFLOW PREVENTERS, CONTROL WIRES.
2. STREET, TRAFFIC SIGNS, AND STREET LIGHTS.
3. ALL TREES TO BE PROTECT-IN-PLACE. UNLESS NOTED OTHERWISE.
4. CURB AND GUTTER
5. UTILITIES INCLUDING VALVE BOXES AND PULLBOXES





REVIEWED FOR CODE COMPLIANCE
USING THE FOLLOWING CODES:

- ☐ 2022 CALIFORNIA RESIDENTIAL CODE
- ☑ 2022 CALIFORNIA BUILDING CODE
- ☑ 2022 CALIFORNIA ELECTRICAL CODE
- ☑ 2022 CALIFORNIA PLUMBING CODE
- ☑ 2022 CALIFORNIA MECHANICAL CODE
- ☑ 2022 CALIFORNIA ENERGY CODE
- ☑ 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- ☐ 2022 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
- ☐ 2022 CALIFORNIA FIRE CODE
- ☐ OTHER:

COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.

BY: bpr.rserrato DATE: Oct 17, 2024

CITY OF GARDENA

Rev 1 only

Scale: 1" = 20'-0"
0 5' 10' 20' 40'
NORTH

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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF GARDENA FREEWAY CITY INCORPORATED 1930

PREPARED BY:
REGISTERED LANDSCAPE ARCHITECT GARY M. VASQUEZ NO. 3883 SIGNATURE EXP. Feb. 2025 6-30-2023 DATE STATE OF CALIFORNIA

David Volz Design
Landscape Architects And Park Planners
Coorporate Office: 151 Kalmus Drive, Suite M8,
Costa Mesa, CA 92626
Phone: 714.641.1300

GARY VASQUEZ R.L.A. NO. 3883 DATE EXP 02/31/2025

NO.	REVISIONS	DATE	BY	APP.
1	REVISION 1	10-02-24		

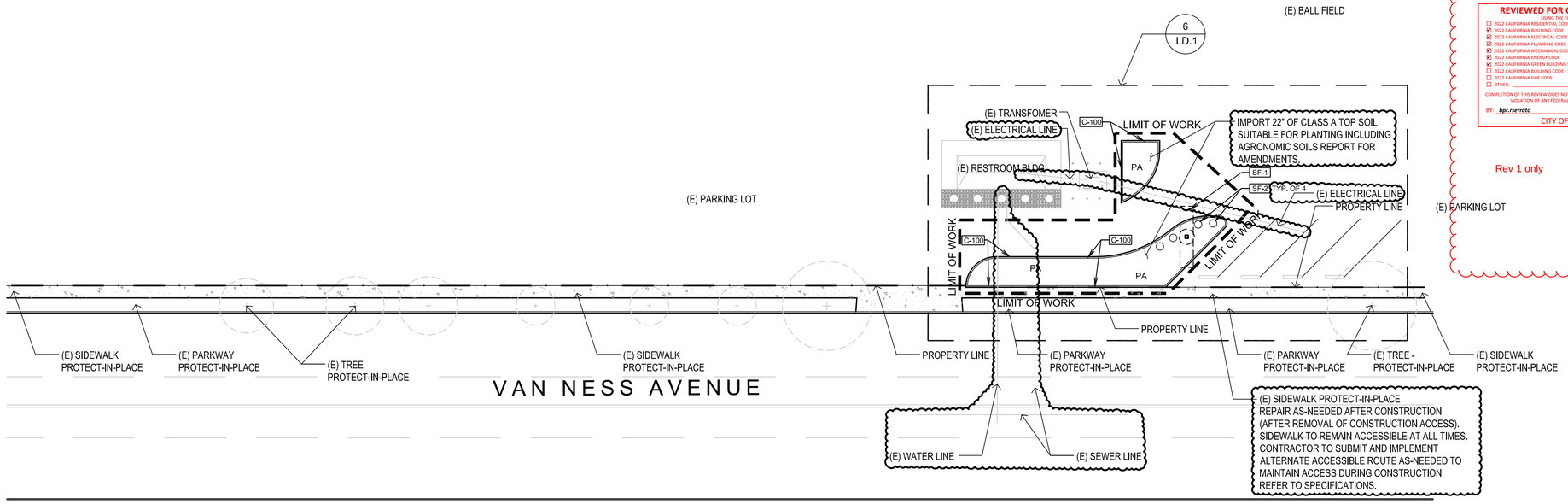
CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION

DEMOLITION PLAN
PROJECT: ROWLEY PARK ELECTRONIC SIGN
LIMITS:
D.1

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES	

APPROVED BY: Allan Rigg DATE: 10/17/24
P.W. DIRECTOR/CITY ENGINEER R. C. E. NO.
SHT. 2 OF 15 DWG. NO. 5-2615

FILE PATH: W:\CITY OF GARDENA\ROWLEY PARK READER SIGN BOARD\03 – CONSTRUCTION DOCUMENTS\$DEMOLITION PLAN.DWG, PLOT TIME: 10/4/2024 2:04:15 PM



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BY: bpr.rserrato DATE: Oct 17, 2024
CITY OF GARDENA

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CONSTRUCTION MATERIAL SCHEDULE

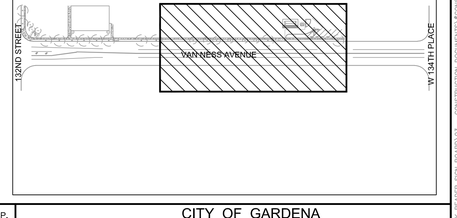
1.0 HARDSCAPE

KEY	DESCRIPTION	MANUFACTURER / SUPPLIER	COLOR	FINISH/TEXTURE	DETAIL SHEET No.	CONSTRUCTION, INSTALLATION NOTE
C-100	6" PCC MAINTENANCE BAND	—	NATURAL GRAY	SACK FINISH W/ PENETRATING SEALER	DETAIL 1 SHEET LD.1	SEE CITY OF GARDENA STANDARD DETAIL: ST-7 C-4.

2.0 PARK SITE FURNISHING

KEY	DESCRIPTION	MANUFACTURER / SUPPLIER	MODEL No.	FINISH/TEXTURE	QTY	COLOR	DETAIL SHEET No.	CONSTRUCTION, INSTALLATION NOTE
SF-1	POST MOUNTED VIDEO DISPLAY SIGN 10' X 20' (2 SIDED)	DAKTRONICS OR APPROVED EQUAL (714)3134349 BRAVO SIGN OR APPROVED EQUAL (714) 284-0500	GS6-100-250-15.85-RGB-2V GALAXY DISPLAYS (9'-11" X 20')	—	QTY. 1	POST W/ WELDED CAP; 'GARDENA BLUE'	DETAIL 1 SHEET LD.2 DETAIL 1 SHEET LD.3 SHEET S-1	CONTRACTOR TO SUBMIT SHOP DRAWINGS FROM SIGNAGE FABRICATOR INCLUDING ALUMINUM SKIN, VENTILATION AND FANS, CONNECTIONS AND WEATHERPROOFING, ELECTRICAL, COLOR AND FINISH.
SF-2	30" DIA. PRECAST SPHERE BOLLARD	QCP (714)309-6564 OR APPROVED EQUAL	QR-30SP WEIGHT: 1,160 LBS.	CRAFTSMAN ETCH W/ ANTI-GRAFFITI COATING	QTY. 4	NATURAL	SEE BOLLARD SECTION ON SHEET S-1	ANTI-GRAFFITI COATING TO BE APPLIED BY FABRICATOR PRIOR TO DELIVERY.

KEY MAP
N.T.S.



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REFER TO SHEET T.1 FOR GENERAL NOTES

CITY OF GARDENA FREEWAY CITY INCORPORATED 1930

PREPARED BY:
REGISTERED LANDSCAPE ARCHITECT GARY M. VASQUEZ NO. 3883 SIGNATURE DATE EXP. Feb. 2025 6-30-2023 STATE OF CALIFORNIA

David Volz Design
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Phone: 714.641.1300

GARY VASQUEZ R.L.A. NO. 3883 DATE EXP 02/31/2025

NO.	REVISIONS	DATE	BY	APP.
1	REVISION 1	10-02-24		

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION
LANDSCAPE CONSTRUCTION MATERIALS SCHEDULE, AND PLAN
PROJECT: ROWLEY PARK ELECTRONIC SIGN
LIMITS:
LC.1

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES	

APPROVED BY: Allan Rigg DATE: 10/17/24
P.W. DIRECTOR/CITY ENGINEER R. C. E. NO.
SHT. 3 OF 15 DWG. NO. 5-2615

FILE PATH: W:\CITY OF GARDENA\ROWLEY PARK READER SIGN BOARD\03 - CONSTRUCTION DOCUMENTS\1CONSTRUCTION PLAN.DWG, PLOT TIME: 10/4/2024 4:01:01 PM

REVIEWED FOR CODE COMPLIANCE

USING THE FOLLOWING CODES:

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- ☐ 2022 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
- ☐ 2022 CALIFORNIA FIRE CODE
- ☐ OTHER: _____

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BY: bpr.rserrato DATE: Oct 17, 2024

CITY OF GARDENA

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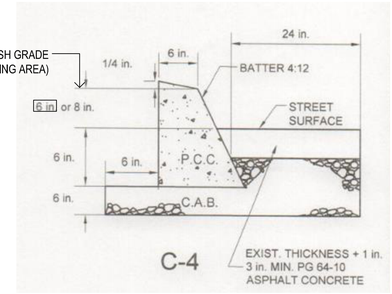
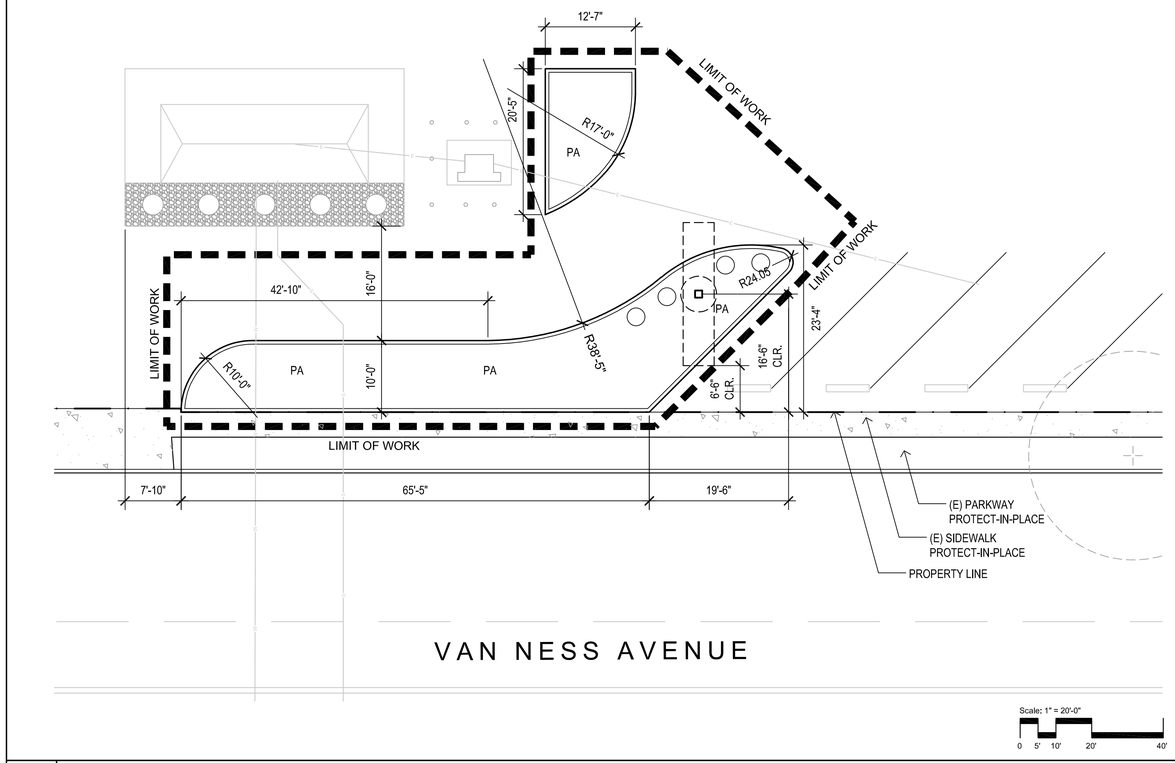


NOTES:

1. 1/2 IN. EXPANSION JOINTS SHALL BE PLACED EVERY 60 FT. WEAKENED PLANE JOINTS PLACED EVERY 20 FT.
2. BASE SHALL BE CRUSHED AGGREGATE BASE PER THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" LATEST EDITION.
3. PORTLAND CEMENT CONCRETE SHALL BE 520-C-2500 PER "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" LATEST EDITION.
4. ALL EXPOSED CORNERS ON P.C.C. CURBS AND GUTTERS TO BE ROUNDED WITH 3/4 IN. RADIUS.
5. ALL ASPHALT CONCRETE AND P.C.C. TO BE REMOVED SHALL BE SAWCUT AT REMOVAL LIMITS. (MIN 5 IN. SAWCUT.)

C-100

1 CURB AND GUTTER / 6" PCC MAINTENANCE BAND 1"=1'-0"



3 ENLARGEMENT - PROPOSED SITE PLAN AND SIGN CLEARANCE DIMENSION 1"=10'-0"

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CITY OF GARDENA FREEWAY CITY INCORPORATED 1930

PREPARED BY:

REGISTERED LANDSCAPE ARCHITECT
GARY M. VASQUEZ
NO. 3883
SIGNATURE
EXP. Feb. 2025
6-30-2023
DATE
STATE OF CALIFORNIA

David Volz Design
Landscape Architects And Park Planners
Coorporate Office: 151 Kalmus Drive, Suite M8,
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GARY VASQUEZ
R.L.A. NO. 3883

DATE
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CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION

LANDSCAPE CONSTRUCTION DETAIL

PROJECT: ROWLEY PARK ELECTRONIC SIGN

LIMITS:

LD.1

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES	

APPROVED BY: Allan Rigg DATE 10/17/24
P.W. DIRECTOR/CITY ENGINEER R. C. E. NO.

SHT. 4 OF 15

DWG. NO. 5-2615

FILE PATH: W:\CITY OF GARDENA\ROWLEY PARK READER SIGN BOARD\03 - CONSTRUCTION DOCUMENTS\$CONSTRUCTION DETAILDWG
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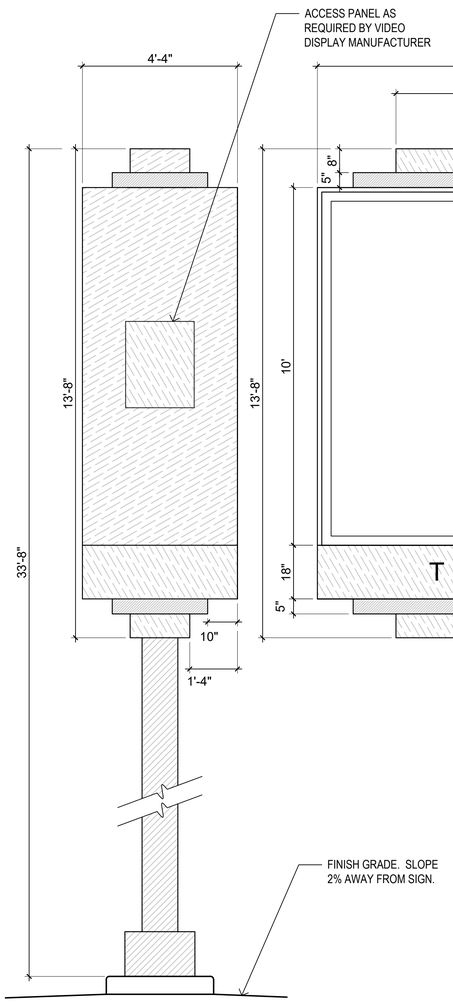
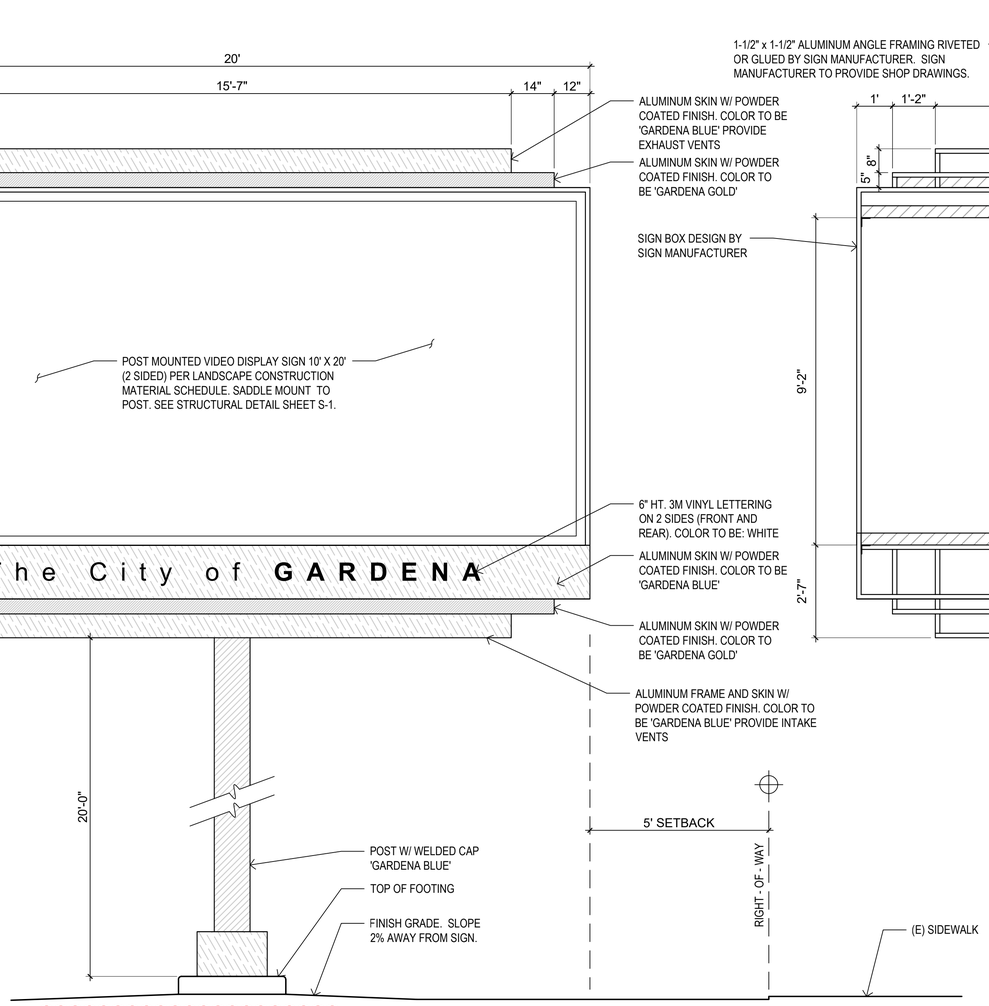


SIDE ELEVATION

1/2"=1'-0"



FRONT & REAR ELEVATION

1/2"=1'-0"

REVIEWED FOR CODE COMPLIANCE

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- ☑ 2022 CALIFORNIA ELECTRICAL CODE
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- ☑ 2022 CALIFORNIA MECHANICAL CODE
- ☑ 2022 CALIFORNIA ENERGY CODE
- ☑ 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- ☐ 2022 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
- ☐ 2022 CALIFORNIA FIRE CODE
- ☐ OTHER: _____

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BY: *bpr.rserrato* DATE: *Oct 17, 2024*

CITY OF GARDENA

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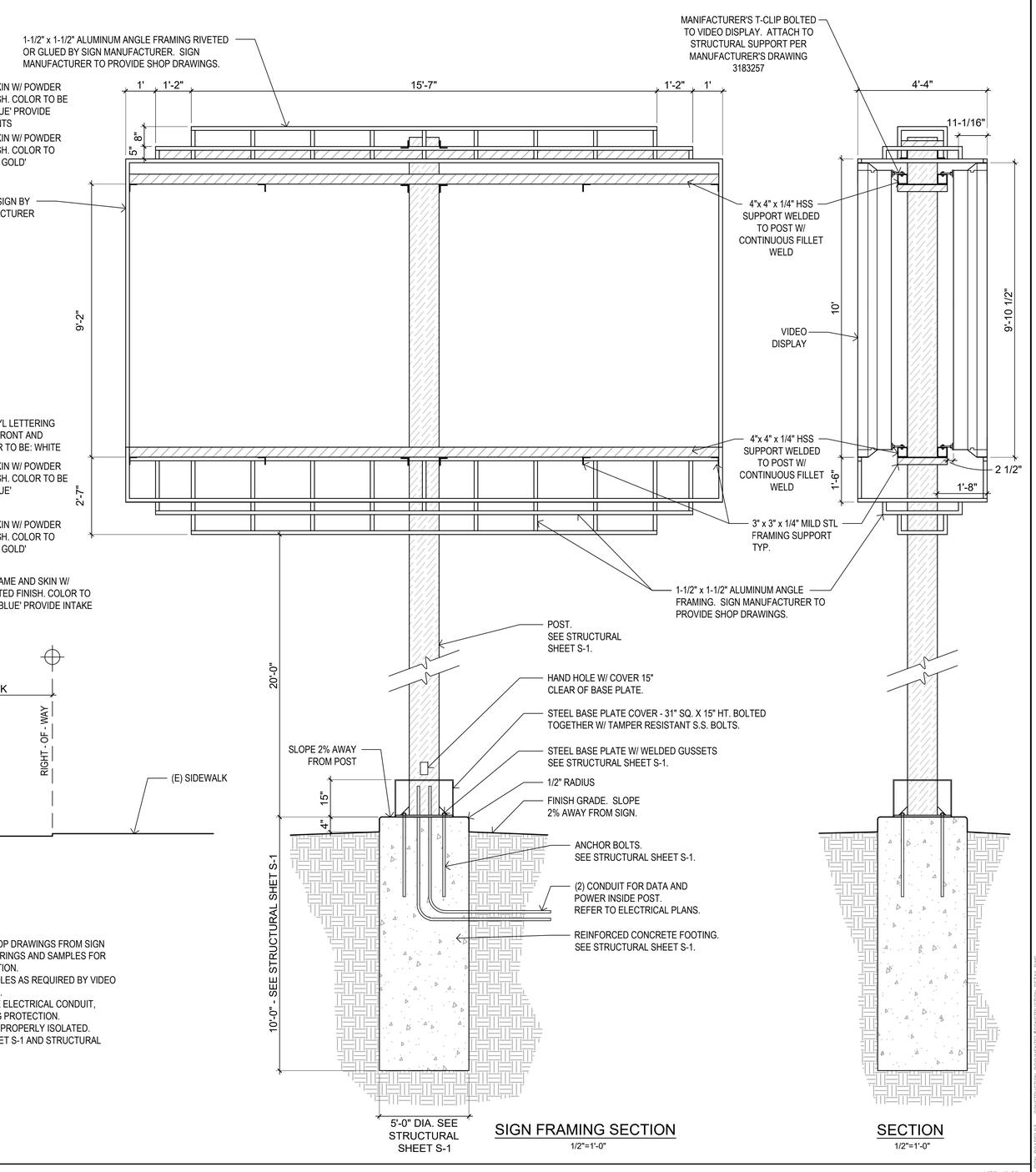
NOTE:

1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FROM SIGN FABRICATOR W/ COLOR RENDERINGS AND SAMPLES FOR APPROVAL PRIOR TO FABRICATION.
2. PROVIDE VENTS AND DRAIN HOLES AS REQUIRED BY VIDEO DISPLAY SIGN MANUFACTURER.
3. CONTRACTOR TO COORDINATE ELECTRICAL CONDUIT, CONNECTIONS, AND LIGHTNING PROTECTION.
4. ALL DISSIMILAR METALS TO BE PROPERLY ISOLATED.
5. SEE STRUCTURAL DETAIL, SHEET S-1 AND STRUCTURAL CALCULATIONS.



SIGN FRAMING SECTION

1/2"=1'-0"

SECTION

1/2"=1'-0"

1 | POST MOUNTED VIDEO DISPLAY SIGN 10' X 20' (2 SIDED)

1/2"=1'-0"

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CITY OF GARDENA FREEWAY CITY INCORPORATED 1930

PREPARED BY:

REGISTERED LANDSCAPE ARCHITECT GARY M. VASQUEZ NO. 3883 SIGNATURE EXP. Feb. 2025 6-30-2023 DATE STATE OF CALIFORNIA

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R.L.A. NO. 3883

DATE
EXP 02/31/2025

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1	REVISION 1	10-02-24		

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION

LANDSCAPE CONSTRUCTION DETAIL

PROJECT: ROWLEY PARK ELECTRONIC SIGN

LIMITS:

LD.2

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES	

APPROVED BY: *Allan Rigg* DATE: 10/17/24
P.W. DIRECTOR/CITY ENGINEER R. C. E. NO.

SHT. 5 OF 15 DWG. NO. 5-2615

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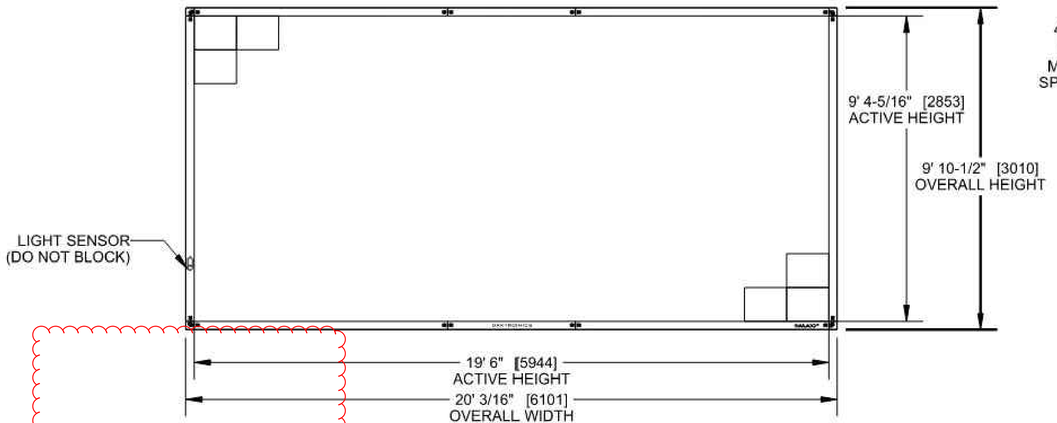
OVERALL DISPLAY SIZE
GS6-AAAxBBB-CC

PIXELS HIGH (AAA)	PIXELS WIDE (BBB)	PIXEL SPACING (CC)
180	375	15.85mm
144	300	19.81mm
108	225	26.42mm



FRONT VIEW

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CITY OF GARDENA

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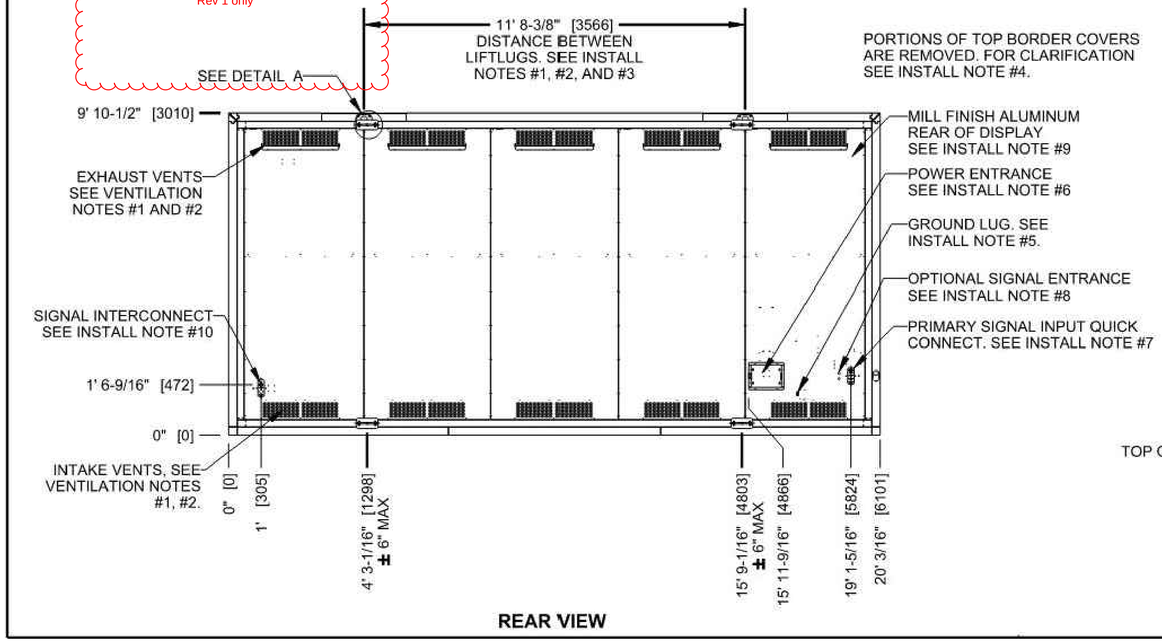
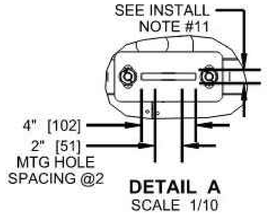
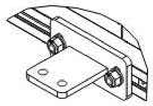


REAR VIEW



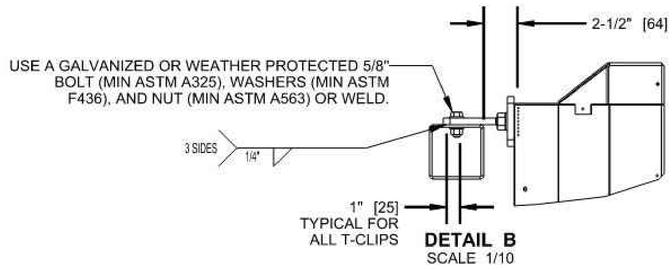
DETAIL A
SCALE 1/10



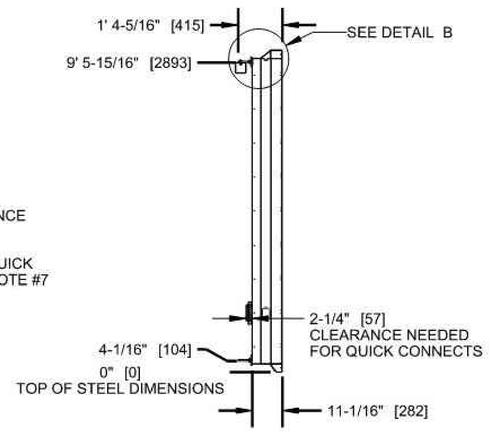
T-CLIP ISOMETRIC VIEW
SCALE 1/10

ALL WELDING SHALL BE PERFORMED BY A WELDER CERTIFIED FOR THE SPECIFIED TYPE AND POSITION OF THE REQUIRED WELD. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS 01.1. SHIELDED METAL ARC WELDING PROCESSES SHALL BE USED TO PERFORM WELDS WITH A LOW HYDROGEN E70 SERIES ELECTRODE.

PORTIONS OF TOP BORDER COVERS ARE REMOVED. FOR CLARIFICATION SEE INSTALL NOTE #4.



DETAIL B
SCALE 1/10



#	DETAIL	DESCRIPTION
1	DISPLAY	GS6-AAAxBBB-CC (SEE CHART IN TOP LEFT CORNER)
2	LED COLOR	RGB / RED / AMBER
3	ACTIVE AREA	9' 4-5/16" [2853] X 19' 6" [5943]
4	OVERALL SIZE	9' 10-1/2" [3010] X 20' 3/16" [6101]
5	CABINET	ALUMINUM & STEEL
6	VENTILATION	REAR INTAKE & EXHAUST
7	ACCESS	SERVICE FROM FRONT OF DISPLAY
8	WEIGHT	TOTAL: 2190 LBS [993 KG] (APPROX)
9	SHIPPING	SHIPPED AS A SINGLE UNIT
10	DIMENSIONS	FEET AND INCHES [MILLIMETERS]

STRUCTURAL RATING		
1	DESIGN WIND PRESSURE "P" (CASE A)	P <= 100 PSF
2	STANDARD/CODE	SEE DD4145274 FOR APPLICABLE DESIGN CODE
3	MINIMUM STRINGER DIMENSION	HSS 4" X 4" X 3/16"
4	MAXIMUM CLIP ANGLE SPACING	11' 6" [3505] ±1' MAX

POWER RATING PER SINGLE FACE: FOR SIZING ELEC.SERVICE MAX REQ'D SHOWN

MOD GRID	SECT.	COLOR	MAX WATTS	120/240VAC 1PH 60Hz (3 WIRES + GND) DOMESTIC		240VAC 1PH 50Hz (2 WIRES + GND) INTERNATIONAL SPECIAL ORDER
				LINE 1 AMPS	LINE 2 AMPS	LINE 1 (AMPS)
9 X 15	TOTAL	RGB	6322	25.91	26.80	26.35
		MONO	3429	15.19	13.40	14.29

VENTILATION REQUIREMENTS	
1	DISPLAY RELIES ON VENTILATION TO FUNCTION PROPERLY. VENTILATION HOODS, LOCATED AT THE BACK OF THE DISPLAY, MUST BE ABLE TO DRAW IN AIR AT A TEMPERATURE NO GREATER THAN 120°F
2	AIRFLOW AT AMBIENT TEMPERATURE CAN BE MAINTAINED BY PROVIDING OPENINGS FOR INTAKE (AT THE BOTTOM) AND EXHAUST (AT THE TOP) BEHIND THE DISPLAY. A MINIMUM OF 5.0 SQFT FOR INTAKE AND 5.0 SQFT FOR EXHAUST IS REQUIRED. IF THE OPENINGS CANNOT BE PROVIDED AS STATED, USE WALL MOUNT PROPELLER FANS TO GENERATE A MINIMUM OF 1500 CFM OF AIRFLOW ACROSS THE BACK OF THE DISPLAY.

INSTALL NOTES	
1	WHEN LIFTING USE ALL LIFTLUGS AND MAINTAIN AN ANGLE LARGER THAN 55° BETWEEN THE CABINET AND LIFTING DEVICE.
2	Ø 1-1/16" LIFTLUG DIAMETER TO ASSIST WITH DISPLAY INSTALLATION. MAX WIND SPEED DURING INSTALLATION MUST BE LESS THAN 20 MPH.
3	LIFTLUGS MAY NOT BE USED FOR PERMANENT INSTALLATION.
4	DISPLAY WILL BE SHIPPED WITH SOME TOP BORDER COVERS REMOVED. COVERS WILL NEED TO BE ATTACHED WITH INCLUDED HARDWARE AFTER DISPLAY IS MOUNTED TO STRUCTURE.
5	GROUND LUG FOR GROUND CONNECTION. ALL SECTIONS NEED TO BE GROUNDED.
6	Ø 2" MEYERS HUB FOR POWER TERMINATION TO INTERNAL LOAD CENTER. SEE POWER RATINGS ABOVE.
7	SIGNAL INPUT AT QUICK CONNECT. PRIMARY/SINGLE FACE DISPLAY SHOWN. SEE CLEARANCE DIMENSION ON LEFT SIDE VIEW.
8	TWO 1/2" CONDUIT KNOCKOUTS FOR OPTIONAL SIGNAL ENTRANCE.
9	DISPLAY WILL BE PAINTED SEMI-GLOSS BLACK ON SIDE PERIMETER WITH MILL FINISH ALUMINUM ON REAR OF DISPLAY.
10	MECHANICAL AND SIGNAL CONNECTIONS OCCUR EXTERNAL TO DISPLAY.
11	T-CLIPS FOR MOUNTING.T-CLIPS CAN BE ADJUSTED VERTICALLY ± 1/2" AS NEEDED DURING INSTALLATION. T-CLIPS CAN BE WELDED OR BOLTED TO STRINGER AT A MAX DISTANCE 2-1/2". SEE DETAIL B.
12	DAKTRONICS IS NOT RESPONSIBLE FOR THE MOUNTING HARDWARE OR THE INTEGRITY OF THE MOUNTING STRUCTURE.
13	DAKTRONICS IS NOT RESPONSIBLE FOR THE MAIN ELECTRICAL DISCONNECT. SEE POWER RATINGS ABOVE.
14	FOR MORE INSTALLATION DETAILS AND GUIDELINES REQUEST DD-1954173 FROM YOUR DAKTRONICS REPRESENTATIVE

REV	DATE:		BY:
04	22 MAR 21	PER CN-117066: UNDER STRUCTURAL RATING-STANDARD/CODE. NOTED TO REFERENCE DD4145274	CJC 20633.

THE CONCEPTS EXPRESSED AND DETAILS SHOWN ON THIS DRAWING ARE CONFIDENTIAL AND PROPRIETARY. DO NOT REPRODUCE BY ANY MEANS WITHOUT THE EXPRESS WRITTEN CONSENT OF DAKTRONICS, INC. OR ITS WHOLLY OWNED SUBSIDIARIES. COPYRIGHT© 2016 DAKTRONICS, INC. (USA).

THIRD ANGLE PROJECTION

PROJECT:	GS6 GALAXY DISPLAYS			
TITLE:	SHOP DWG, GS6-R, 9' 11"x20' 0" (9x15 MODS)			
DATE:	08-MAR-21	DIM UNITS: INCHES [MILLIMETERS]	SHEET	REV
SCALE:	1/50	DO NOT SCALE DRAWING	1 OF 1	04
DESIGN:	TWHITEH	JOB NO. P1874 / FUNC - TYPE - SIZE E - 07 - B	3183257	
DRAWN:	TWAIT			

1	POST MOUNTED VIDEO DISPLAY SIGN 10' X 20' (2 SIDED)	SEE DRAWING

DIGALERT
DIAL TOLL FREE: 811
1-800-422-4133
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

CITY OF GARDENA FREEWAY CITY INCORPORATED 1930

PREPARED BY:
REGISTERED LANDSCAPE ARCHITECT GARY M. VASQUEZ NO. 3883 SIGNATURE DATE EXP. Feb. 2025 6-30-2023 STATE OF CALIFORNIA

David Volz Design
Landscape Architects And Park Planners
Coorporate Office: 151 Kalmus Drive, Suite M8,
Costa Mesa, CA 92626
Phone: 714.641.1300

GARY VASQUEZ R.L.A. NO. 3883 DATE EXP 02/31/2025

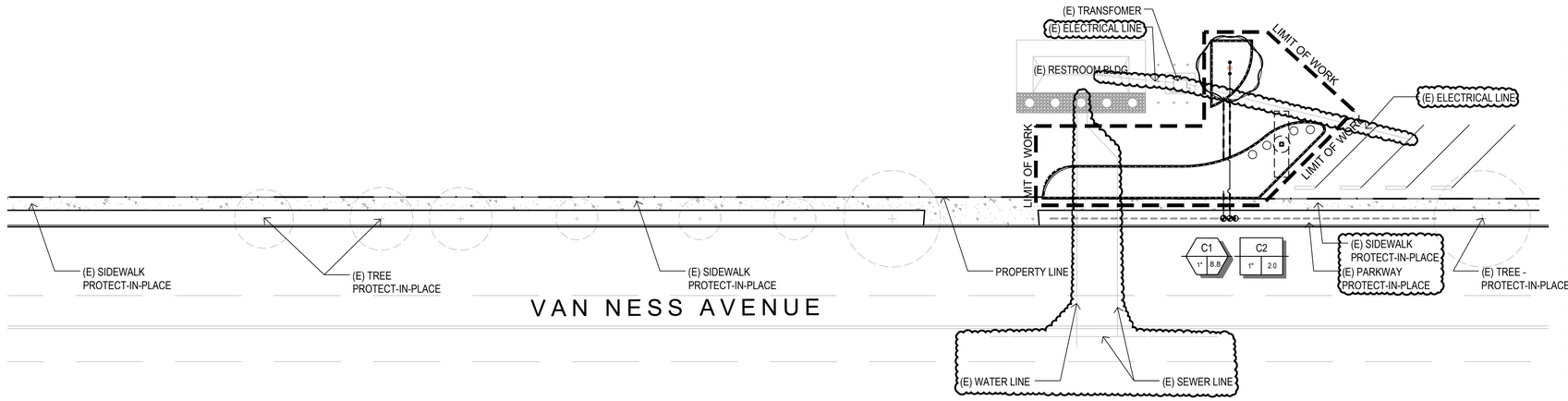
NO.	REVISIONS	DATE	BY	APP.
1	REVISION 1	10-02-24		

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION
LANDSCAPE CONSTRUCTION DETAIL
PROJECT: ROWLEY PARK ELECTRONIC SIGN
LIMITS:
LD.3

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES	

APPROVED BY: Allan Rigg DATE: 10/17/24
P.W. DIRECTOR/CITY ENGINEER R.C.E. NO.
SHT. 6 OF 15 DWG. NO. 5-2615

FILE PATH: W:\CITY OF GARDENA\ROWLEY PARK READER SIGN BOARD\03 - CONSTRUCTION DOCUMENTS\[CONSTRUCTION DETAIL.DWG, PLOT TIME: 10/4/2024 2:04:19 PM



REVIEWED FOR CODE COMPLIANCE
USING THE FOLLOWING CODES:
- ☐ 2022 CALIFORNIA RESIDENTIAL CODE
- ☑ 2022 CALIFORNIA BUILDING CODE
- ☑ 2022 CALIFORNIA ELECTRICAL CODE
- ☑ 2022 CALIFORNIA PLUMBING CODE
- ☑ 2022 CALIFORNIA MECHANICAL CODE
- ☑ 2022 CALIFORNIA ENERGY CODE
- ☑ 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- ☐ 2022 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
- ☐ 2022 CALIFORNIA FIRE CODE
- ☐ OTHER:

COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.

BY: bpr.rserrato DATE: Oct 17, 2024

CITY OF GARDENA

Rev 1 only

IRRIGATION LEGEND

IN-LINE DRIP

SYMBOL	MANUFACTURER/ DESCRIPTION	NOZZLE	RAD.	HOUSING	FLOW	PSI	PRECIP. RATE
	RAINBIRD DRIP LINE TUBING AREA PERIMETER	XFS-06-12	N/A	INSTALL 4" BELOW FINISH GRADE. REFER TO DETAILS FOR TUBING LAYOUT.	0.6 GPH	30	N/A

TREE BUBBLERS

SYMBOL	MANUFACTURER/ DESCRIPTION	NOZZLE	RAD.	HOUSING	FLOW	PSI	PRECIP. RATE
●	RAINBIRD ROOT WATERING SYS.	BUBBLER 1404	N/A	RWS-B-C-1404 RWS-SOCK INSTALL (2) PER TREE	1.0 GPM	30	N/A

MISCELLANEOUS MATERIAL

SYMBOL	MANUFACTURER/ DESCRIPTION	MODEL	HOUSING	COMMENTS
	RAINBIRD REMOTE CONTROL VALVE	PEB	CARSON #1419 W/ FLUSH COVER AND L-BOLT LOCK	SIZE PER PLAN
	RAINBIRD 1" REMOTE CONTROL DRIP ZONE KIT	XCZ-100-PRB-COM 120 MESH	CARSON #1220 W/ FLUSH COVER AND L-BOLT LOCK	
	RAINBIRD 1" QUICK COUPLING VALVE	44LRC	CARSON # 910 W/ T-COVER AND L-BOLT LOCK	INSTALL PER MANUFACT. SPECIFICATIONS
	NIBCO GATE VALVE	T-113-K	CARSON # 910 W/ T-COVER AND L-BOLT LOCK	VALVE SIZE TO MATCH LINE SIZE
N/A	NETAFIM LINE FLUSHING VALVE	TL050MFV-1	CARSON # 910 W/ T-COVER AND L-BOLT LOCK	INSTALL PER MANUFACT. SPECIFICATIONS
N/A	RAINBIRD AIR RELIEF VALVE KIT	ARV050	CARSON # 809 W/ T-COVER AND L-BOLT LOCK	INSTALL PER MANUFACT. SPECIFICATIONS
M	EXISTING X" DOMESTIC WATER SERVICE		EXISTING	PROTECT IN PLACE
BF	EXISTING X" BACKFLOW PREVENTER		EXISTING	PROTECT IN PLACE
C	EXISTING (X) STATION CONTROLLER		EXISTING	PROTECT IN PLACE

PIPING

SYMBOL	MANUFACTURER/ DESCRIPTION	MODEL	COMMENTS
- - - - - - - - - - - -	EXISTING PRESSURE MAINLINE	PROTECT IN PLACE AND MODIFY AS NEEDED. USE PVC CLASS 315 FOR SIZES 2" AND LARGER AND PVC SCH.40 FOR SIZES 1-1/2" AND SMALLER FOR ANY MODIFICATIONS DEEMED NECESSARY.	
————	NON-PRESSURE LATERAL LINE	SCHEDULE 40 PVC	SIZE PER PLAN INSTALL PER DETAILS
= = = = = = = = =	SLEEVING	SCHEDULE 40 PVC	REFER TO IRRIGATION NOTES ON SHEET LI.3. INSTALL PER DETAILS

IRRIGATION ADJUSTMENTS AT LIMIT OF IMPROVEMENTS

THE CONTRACTOR SHALL ENSURE THE FUNCTIONALITY OF THE EXISTING IRRIGATION SYSTEM PRIOR TO ANY CONSTRUCTION. WHERE THE NEW IMPROVEMENTS DO IMPACT THE PERFORMANCE OF THE EXISTING IRRIGATION SYSTEM THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR/RELOCATE EXISTING NON-PRESSURE LATERAL LINES AND POP-UP SPRAY HEADS WITHIN 5 DAYS. THE MODIFICATION OF THE EXISTING IRRIGATION SYSTEM SHALL BE INSTALLED TO PROVIDE HEAD TO HEAD COVERAGE WITH MINIMAL OVERSPRAY ONTO THE WALKS, SIGNS, FENCES, AND DRIVES. WHERE EXISTING VALVES SERVING TURF IRRIGATION ARE TO REMAIN VIABLE THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NEW IRRIGATION HEADS/ROTORS, NOZZLES AND NON-PRESSURE LATERAL LINE PIPE TO ENSURE FUNCTIONALITY OF THE SYSTEM. ALL NEW PRODUCTS INSTALLED TO BE OF LIKE KIND FOUND IN THE FIELD UNLESS SPECIFIED OTHERWISE IN THESE PLANS. THE CONTRACTOR WILL CUT AND CAP NON-PRESSURE LATERAL LINES AT THE LIMITS OF NEW WORK AND MARK ALL NON-PRESSURE LATERAL LINES 5 FEET BEYOND THE NEW CONSTRUCTION. THE CONTRACTOR SHALL DISPOSE OF ANY UNUSED NON-PRESSURE PIPE WITHIN THE NEW CONSTRUCTION AREAS AND COMPACT WHERE NON-PRESSURE PIPES WERE REMOVED.

NOTES

EXISTING MAINLINE: THE EXISTING MAINLINE IS SHOWN TO BE DIAGRAMMATIC. THE CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY THE MAINLINE'S ACTUAL LOCATION.

NEW REMOTE CONTROL VALVES: THE NEW REMOTE CONTROL VALVES SHALL BE CONNECTED TO THE EXISTING MAINLINE AT THE APPROXIMATE LOCATION SHOWN ON PLANS. THE CONNECTIONS BETWEEN THE EXISTING MAINLINE AND NEW VALVES WILL REQUIRE ADDITIONAL PIPES AND FITTINGS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ANY NECESSARY MATERIALS AND/OR EQUIPMENT TO SUCCESSFULLY CONNECT NEW VALVES TO EXISTING MAINLINE. LINK NEW REMOTE CONTROL VALVES TO THE EXISTING CONTROLLER WITH THE EXISTING CONTROL WIRES. SPLICE AND ADD NEW CONTROL WIRES AS NECESSARY TO LINK NEW VALVES WITH EXISTING CONTROLLER.

EXISTING MAINLINE MODIFICATIONS: MODIFICATIONS TO THE EXISTING MAINLINE SHALL BE MADE TO THE SATISFACTION OF THE CITY ENGINEER AND LOCAL WATER PURVEYOR.

NOTES

VERIFY THE ACTUAL LOCATION, SIZE AND WATER PRESSURE IN THE FIELD PRIOR TO STARTING WORK. IF ANY OF THE P.O.C. INFORMATION SHOW ON THESE DRAWINGS IS FOUND TO BE DIFFERENT THAN THE ACTUAL P.O.C. INFORMATION GATHERED IN THE FIELD, IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT. SHOULD THE CONTRACTOR FAIL TO VERIFY THE P.O.C. INFORMATION ANY CHANGES REQUIRED BY LOW PRESSURE OR VOLUME SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

KEY MAP

N.T.S.

DIGALERT
DIAL TOLL FREE: 811
1-800-422-4133
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REFER TO SHEET T.1 FOR GENERAL NOTES

PREPARED BY:
REGISTERED LANDSCAPE ARCHITECT
GARY M. VASQUEZ
NO. 3883
SIGNATURE
EXP: Feb. 2025
6-30-2023
DATE
STATE OF CALIFORNIA

David Volz Design
Landscape Architects And Park Planners
Coorporate Office: 151 Kalmus Drive, Suite M8,
Costa Mesa, CA 92626
Phone: 714.641.1300

GARY VASQUEZ
R.L.A. NO. 3883
DATE
EXP 02/31/2025

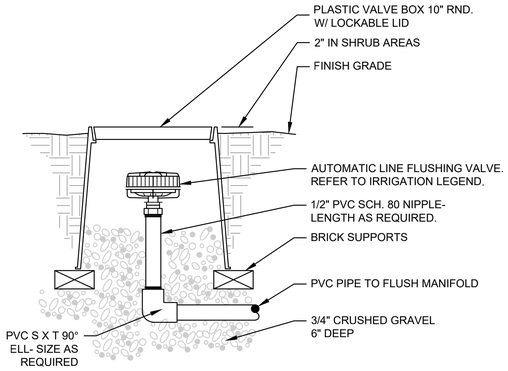
NO.	REVISIONS	DATE	BY	APP.
1	REVISION 1	10-02-24		

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION
IRRIGATION LEGEND, PLAN, AND NOTES
PROJECT: ROWLEY PARK ELECTRONIC SIGN
LIMITS:
LI.1

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES	

APPROVED BY Allan Rigg DATE 10/17/24
P.W. DIRECTOR/CITY ENGINEER R.C.E. NO.
SHT. 7 OF 15
DWG. NO. 5-2615

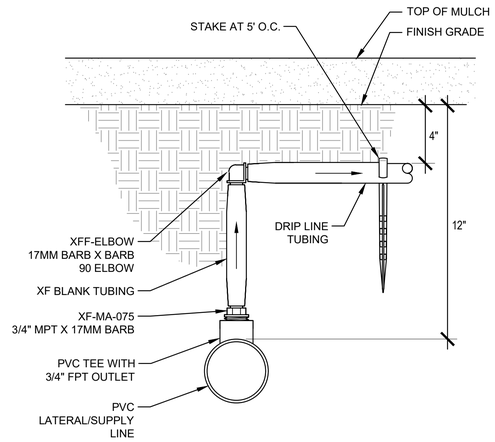
FILE PATH: W:\CITY OF GARDENA\ROWLEY PARK READER SIGN BOARD\03 – CONSTRUCTION DOCUMENTS\$IRRIGATION PLAN.DWG, PLOT TIME: 10/4/2024 2:03:58 PM



NOTE: HEAT BRAND 'FV' ONTO LID IN 2" LETTERS

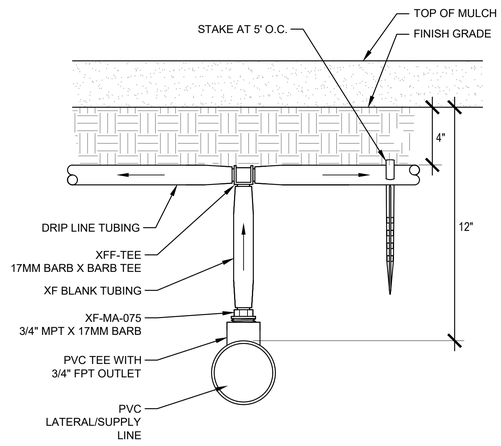
D | LINE FLUSHING VALVE

NOT TO SCALE



C | DRIP LINE MANIFOLD TO ELL CONNECTION

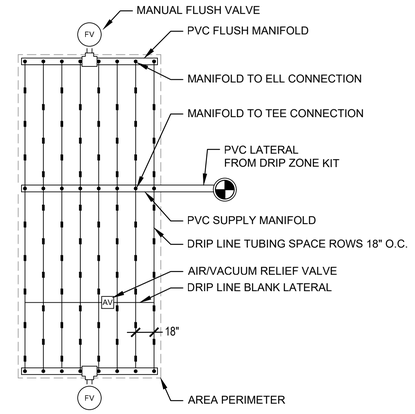
NOT TO SCALE



B | DRIP LINE MANIFOLD TO TEE CONNECTION

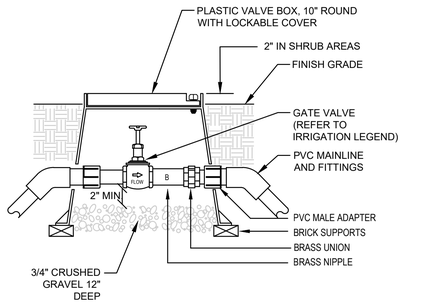
NOT TO SCALE

NOTE:
THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH.



A | DRIP LINE LAYOUT

NOT TO SCALE

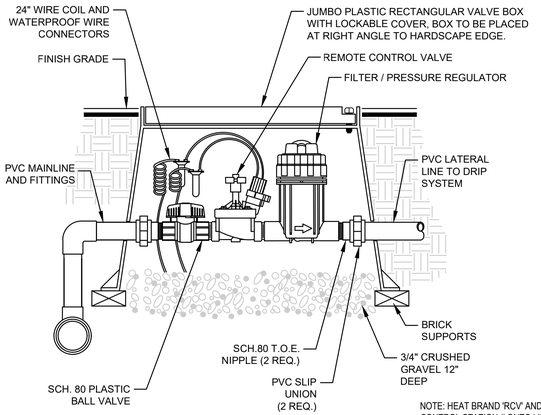


NOTE: HEAT BRAND 'GV' ONTO LID IN 2" LETTERS

NOTES:
1. BOX TO BE INSTALLED AS TO ALLOW FOR PROPER OPERATION OF GATE VALVE

H | GATE VALVE

NOT TO SCALE

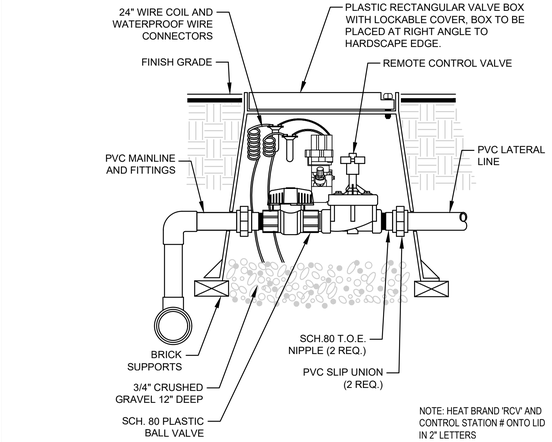


NOTE: HEAT BRAND 'RCV' AND CONTROL STATION # ONTO LID IN 2" LETTERS

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

G | REMOTE CTRL. DRIP ZONE VALVE (SIZE 1")

NOT TO SCALE



NOTE: HEAT BRAND 'RCV' AND CONTROL STATION # ONTO LID IN 2" LETTERS

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

F | REMOTE CONTROL VALVE

NOT TO SCALE

REVIEWED FOR CODE COMPLIANCE
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- ☑ 2022 CALIFORNIA BUILDING CODE
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- ☑ 2022 CALIFORNIA ENERGY CODE
- ☑ 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- ☐ 2022 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
- ☐ 2022 CALIFORNIA FIRE CODE
- ☐ OTHER:

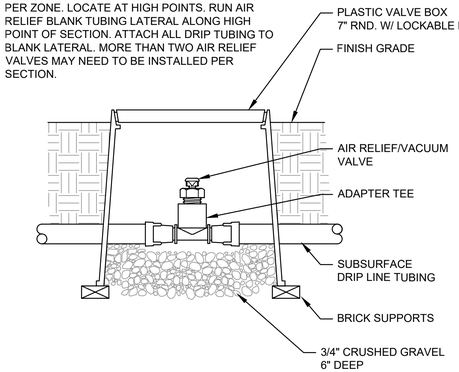
COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.

BY: *bpr.serrato* DATE: *Oct 17, 2024*

CITY OF GARDENA

Rev 1 only

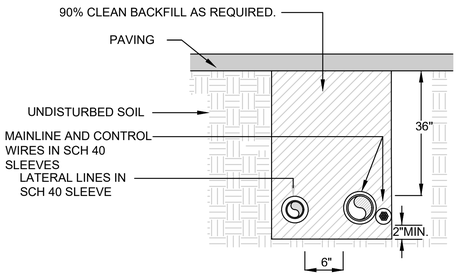
USE ONE AIR RELIEF VALVE FOR EVERY 7 GPM PER ZONE. LOCATE AT HIGH POINTS. RUN AIR RELIEF BLANK TUBING LATERAL ALONG HIGH POINT OF SECTION. ATTACH ALL DRIP TUBING TO BLANK LATERAL. MORE THAN TWO AIR RELIEF VALVES MAY NEED TO BE INSTALLED PER SECTION.



NOTE: HEAT BRAND 'AR' ONTO LID IN 2" LETTERS

E | DRIP AIR RELIEF VALVE

NOT TO SCALE



I | SLEEVE INSTALLATION

NOT TO SCALE

DIGALERT
DIAL TOLL FREE: 811
1-800-422-4133
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

PREPARED BY:
REGISTERED LANDSCAPE ARCHITECT — GARY M. VASQUEZ — NO. 3883 — SIGNATURE — EXP. Feb. 2025 6-30-2023 — DATE — STATE OF CALIFORNIA

David Volz Design
Landscape Architects And Park Planners
Coporate Office: 151 Kalmus Drive, Suite M8,
Costa Mesa, CA 92626
Phone: 714.641.1300

GARY VASQUEZ R.L.A. NO. 3883 — DATE EXP 02/31/2025

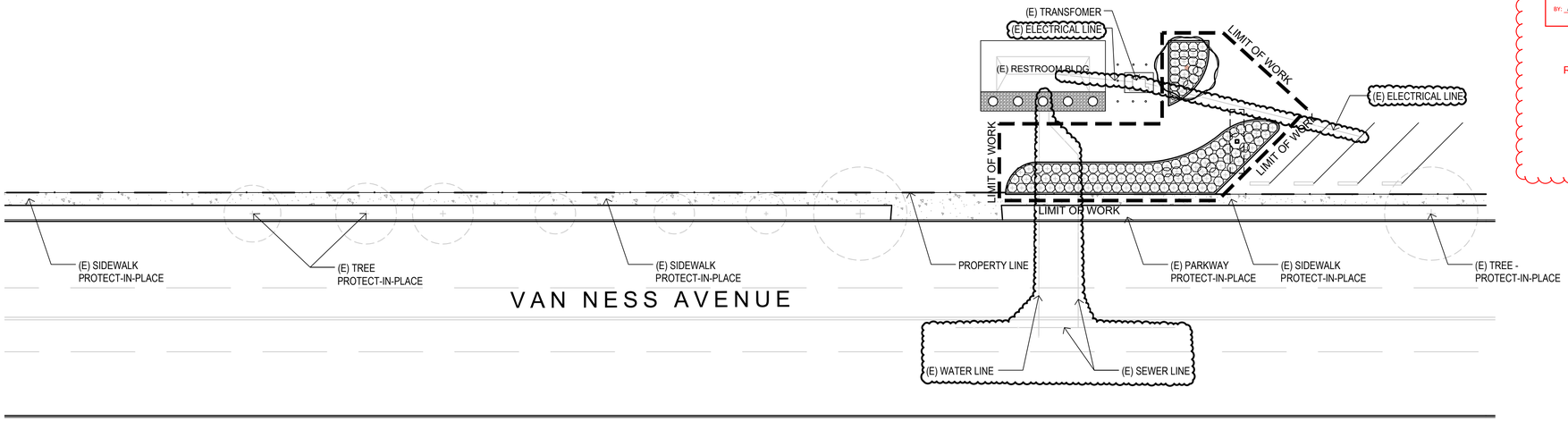
NO.	REVISIONS	DATE	BY	APP.
1	REVISION 1	10-02-24		

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION
IRRIGATION DETAILS
PROJECT : ROWLEY PARK ELECTRONIC SIGN
LIMITS:
LI.2

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES	

APPROVED BY : Allan Rigg DATE: 10/17/24
P.W. DIRECTOR/CITY ENGINEER R.C.E. NO.
SHT. 8 OF 15
DWG. NO. 5-2615

FILE PATH: W:\CITY OF GARDENA\ROWLEY PARK READER SIGN BOARD\03 - CONSTRUCTION DOCUMENTS\IRRIGATION PLAN.DWG, PLOT TIME: 10/4/2024 2:03:53 PM



Scale: 1" = 20'-0"
0 5' 10' 20' 40'

NORTH

REVIEWED FOR CODE COMPLIANCE
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- ☐ OTHER:

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BY: bpr.rserrato DATE: Oct 17, 2024

CITY OF GARDENA

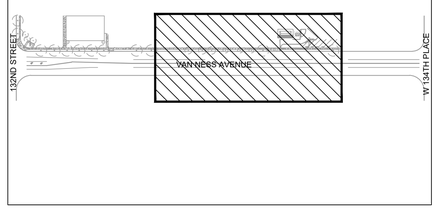
Rev 1 only

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	WUCOLS	QTY	REMARKS
TREES						
	CER OCC	Cercis occidentalis Western Redbud	24"box	LOW	1	
SHRUBS						
	RHA CLA	Rhaphiolepis indica 'Clara' Clara Indian Hawthorn	5 gal	LOW	118	

KEY MAP

N.T.S.



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AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REFER TO SHEET T.1 FOR GENERAL NOTES
REFER TO SHEET LP.2 FOR PLANTING NOTES

CITY OF GARDENA FREEWAY CITY INCORPORATED 1930

PREPARED BY:
REGISTERED LANDSCAPE ARCHITECT
GARY M. VASQUEZ
NO. 3883
SIGNATURE
DATE
EXP. Feb. 2025
6-30-2023
STATE OF CALIFORNIA

David Volz Design
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GARY VASQUEZ
R.L.A. NO. 3883
DATE
EXP 02/31/2025

NO.	REVISIONS	DATE	BY	APP.
1	REVISION 1	10-02-24		

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION

PLANTING LEGEND AND PLAN

PROJECT: ROWLEY PARK ELECTRONIC SIGN

LIMITS:

LP.1

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES	

APPROVED BY Allan Rigg DATE 10/17/24
P.W. DIRECTOR/CITY ENGINEER R. C. E. NO.

SHT. 9 OF 15 DWG. NO. 5-2615

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FILE PATH: W:\CITY OF GARDENA\ROWLEY PARK READER SIGN BOARD\03 - CONSTRUCTION DOCUMENTS\$PLANTING PLAN.DWG
PLOT TIME: 10/4/2024 2:04:30 PM

PLANTING NOTES

1. ALL LOCAL, MUNICIPAL, COUNTY AND STATE LAWS, RULES, AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE PART OF THE PROJECT PLANS AND SPECIFICATIONS; AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR. ADDITIONALLY, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE LATEST EDITION OF THE APWA, STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, ("GREEN BOOK"), AND THE PROJECT SPECIFICATIONS.

WHENEVER SPECIAL REQUIREMENTS CONFLICT ON ANY SUBJECT MATTER, THE OWNER'S DESIGNATED REPRESENTATIVE, WILL DETERMINE WHICH SPECIAL REQUIREMENTS AND/OR CODES SHALL GOVERN.

2. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA (DIG ALERT) AT LEAST TWO (2) WORKING DAYS BEFORE DIGGING, EXCAVATING, OR CONSTRUCTION. PHONE 811.

3. THE CONTRACTOR SHALL NOT PROCEED WITH CONSTRUCTION AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADE DIFFERENCES, OR DISCREPANCIES IN AREA CONFIGURATION OR SIZES, OR IN DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN ENGINEERING. SUCH OBSTRUCTIONS, OR DIFFERENCES, SHOULD BE BROUGHT TO THE ATTENTION OF THE CITY ENGINEER, OR HIS/HER DESIGNATED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY AND SHALL PERFORM SUCH REVISIONS AT HIS/HER OWN EXPENSE.

4. FINISH GRADE ALL PLANTING AREAS TO ACHIEVE A MINIMUM 2% DRAINAGE AND SMOOTH AND EVEN CONDITION, MAKING SURE THAT NO WATER POCKETS OR IRREGULARITIES REMAIN. REMOVE AND DISPOSE OF ALL SURFACE STONES, ROOTS, WEEDS, DEBRIS, FOREIGN MATERIALS, CLODS, AND ROCKS OVER (1) INCH IN DIAMETER SO THAT AFTER CONDITIONING AND PLANTING THE GRADE IS TWO INCHES (2") BELOW ADJACENT HARDSCAPE EXCEPT ALONG CURB CUT AREAS. CONTRACTOR IS TO ENSURE A SMOOTH TRANSITION FROM EXISTING TO NEW GRADE.

5. ALL INSPECTIONS HEREIN SPECIFIED SHALL BE MADE BY THE OWNER'S DESIGNATED REPRESENTATIVE. THE CONTRACTOR SHALL REQUEST INSPECTION AT LEAST 48 HOURS IN ADVANCE OF THE TIME THE INSPECTION IS REQUIRED.

6. ALL EXISTING LANDSCAPED AREAS DAMAGED DURING CONSTRUCTION MUST BE RESTORED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. RESTORATION OF EXISTING LANDSCAPE AREAS SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER.

7. ALL PLANT MATERIAL SHALL BE SUBJECT TO THE INSPECTION AND APPROVAL OF THE OWNER'S DESIGNATED REPRESENTATIVE, BEFORE PLANTING. ALL PLANT MATERIAL DELIVERED ON-SITE WILL BE INSPECTED FOR SIZE AND CONDITION OF ROOT GROWTH, INSECTS, INJURIES, AND DEFECTS. PLANTS NOT APPROVED ARE TO BE REMOVED FROM THE SITE IMMEDIATELY AND REPLACED WITH SUITABLE PLANTS. THE OWNER'S DESIGNATED REPRESENTATIVE RESERVES THE RIGHT TO REJECT ENTIRE LOTS OF PLANTS REPRESENTED BY DEFECTIVE SAMPLES. ALL PLANT MATERIAL SHALL HAVE NURSERY TAGS WHEN DELIVERED TO THE SITE.

8. STAKE TREES AS INDICATED PER TREE PLANTING DETAIL.

9. FINAL LOCATION OF ALL PLANT MATERIAL IS SUBJECT TO THE APPROVAL OF THE OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO PLANTING.

10. THE CONTRACTOR IS RESPONSIBLE FOR COUNT VERIFICATION AND IS TO SUPPLY THE QUANTITIES DELINEATED GRAPHICALLY ON PLANS.

11. PLANT ESTABLISHMENT AND MAINTENANCE PERIOD SHALL BEGIN IMMEDIATELY AFTER INSPECTION AND ACCEPTANCE OF THE WORK BY THE OWNER'S DESIGNATED REPRESENTATIVE. PLANT ESTABLISHMENT AND MAINTENANCE PERIOD SHALL BE FOR A DURATION STATED IN THE SPECIFICATIONS. PLANT ESTABLISHMENT AND MAINTENANCE SHALL BE PERFORMED PER THE PROJECT SPECIFICATIONS.

12. SUPPLEMENTAL HAND WATERING MAY BE REQUIRED DURING THE MAINTENANCE PERIOD TO ESTABLISH PLANT MATERIAL.

13. PLACE WOOD CHIP MULCH IN ALL PLANTED AREAS AT A MINIMUM DEPTH OF 2". DO NOT INSTALL MULCH WITHIN A 6" DIA. OF ANY TREE OR SHRUB TRUNK. CONTRACTOR TO PROVIDE A SAMPLE MULCH FOR THE REVIEW AND APPROVAL OF OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO INSTALLATION. REFER TO SPECIFICATIONS. SEE LP.2 FOR MULCH.

AGRONOMIC SOILS TESTING NOTES:

UPON THE COMPLETION OF DEMOLITION AND GRADING AND PRIOR TO THE INSTALLATION OF THE IRRIGATION SYSTEM, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AN AGRONOMIC SOILS REPORT FOR IMPORTED SOIL.

TWO (2) SOIL SAMPLES SHALL BE TAKEN ONE AT EACH LOCATION:

SAMPLES: TAKEN AT GROUND LEVEL TO 10" DEEP

EACH SAMPLE SHALL CONTAIN APPROXIMATELY 1 QUART OF SOIL AND BE LABELED PER LOCATION AND DEPTH.

EACH SAMPLE SHALL BE TESTED FOR SOIL FERTILITY AND AGRICULTURAL SUITABILITY. SUBMIT SOIL REPORT, INCLUDING RECOMMENDATIONS SOIL PREPARATION FOR BACKFILL MIX AND LAWN INSTALLATION.

1. SOIL TESTING RESULTS SHALL BE SUBMITTED AND APPROVED BY THE OWNER'S DESIGNATED REPRESENTATIVE.
2. SOIL PREPARATION AND BACKFILL MIX SHALL CONFORM TO THE RECOMMENDATIONS OF THE AGRONOMIC SOILS REPORT.
3. REFER TO PLANTING SPECIFICATIONS FOR SOILS TESTING, SOIL PREPARATION, FERTILIZATION, MULCHING, AND OTHER ADDITIONAL PLANTING INFORMATION. ALL PLANT MATERIAL SHALL BE APPROVED BY THE OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO INSTALLATION.

REVIEWED FOR CODE COMPLIANCE
USING THE FOLLOWING CODES:
- ☐ 2022 CALIFORNIA RESIDENTIAL CODE
- ☑ 2022 CALIFORNIA BUILDING CODE
- ☑ 2022 CALIFORNIA ELECTRICAL CODE
- ☑ 2022 CALIFORNIA PLUMBING CODE
- ☑ 2022 CALIFORNIA MECHANICAL CODE
- ☑ 2022 CALIFORNIA ENERGY CODE
- ☑ 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- ☐ 2022 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
- ☐ 2022 CALIFORNIA FIRE CODE
- ☐ OTHER: _____

COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.

BY: bpr.serrato DATE: Oct 17, 2024

CITY OF GARDENA

Rev 1 only

WEED ABATEMENT NOTES:

1. REFER TO WEED ABATEMENT REQUIREMENTS IN THE SPECIFICATIONS. ALL WEED ABATEMENT AND RELATED SECTIONS WILL BE ENFORCED INCLUDING TIME PERIOD REQUIREMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR ALL WATER USED FOR IRRIGATION DURING THE WEED ABATEMENT PERIOD.
3. THE WEED ABATEMENT PERIOD SHALL PROCEED UPON THE COMPLETION OF THE IRRIGATION SYSTEM AND AFTER ALL WEEDS AND GROWTH HAS BEEN REMOVED FROM THE PLANTING AREAS PER THE SPECIFICATIONS.
4. VALVES SHALL BE WIRED TO THE CONTROLLER. IF THE CONTROLLER IS NOT INSTALLED, THE VALVE SHOULD BE CONNECTED TO A TEMPORARY IRRIGATION CONTROLLER. THE TEMPORARY CONTROLLER MUST LOCATED WHERE THE FINAL CONTROLLER IS TO BE INSTALLED AS TO UTILIZING THE IRRIGATION WIRES. WITHOUT AN IRRIGATION CONTROLLER.
5. MAINLINE SHALL MET THE REQUIRED PRESSURE TEST PER THE SPECIFICATIONS TO THE SATISFACTION OF THE CITY'S DESIGNATED REPRESENTATIVE. THE VALVE SHALL BE FLUSHED WITHOUT NOZZLES.
6. VALVES SHALL NOT BE ACCEPTED UNTIL AN IRRIGATION COVERAGE TEST HAS BEEN PERFORMED BY THE OWNER'S DESIGNATED REPRESENTATIVE.
7. SOIL CONDITIONERS AND FERTILIZERS SHALL BE MIXED INTO THE TOP SOIL AT QUANTITIES AND TYPE RECOMMENDED PER THE AGRONOMIC SOILS REPORT PRIOR TO BEGINNING THE WEED ABATEMENT PERIOD
8. FINISHED GRADING SHALL BE COMPLETED AND ACCEPTED BY THE OWNER'S DESIGNATED REPRESENTATIVE PRIOR TO BEGINNING THE WEED ABATEMENT PERIOD.
9. ALL PLANTING AREAS SHALL BE FREE OF UNWANTED INSECTS, RODENTS, CLODS, ROCKS, AND LITTER PRIOR TO BEGINNING THE WEED ABATEMENT PERIOD.
10. ALL UNWANTED GRASSES AND WEEDS SHALL BE KILLED BY SPRAYING AND REMOVED PRIOR TO BEGINNING THE WEED ABATEMENT PERIOD.

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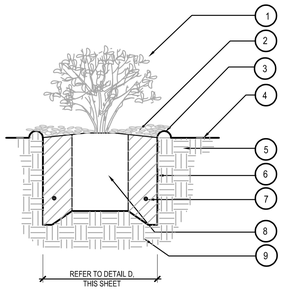
DIAL TOLL FREE: 811
1-800-422-4133
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REFER TO SHEET T.1 FOR GENERAL NOTES

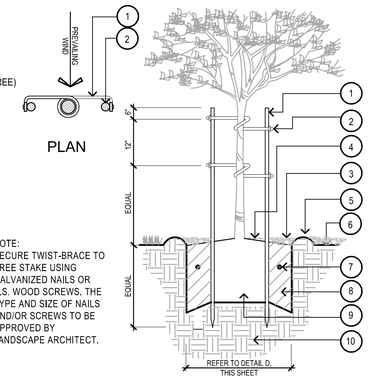
B SHRUB PLANTING DETAIL

LEGEND
1. 1, 5, OR 15 GALLON SHRUB
2. MULCH PER GENERAL PLANTING NOTES
3. 3 INCH WATER BASIN
4. FINISH GRADE
5. IMPORT CLASS A TOP SOIL 22" DEEP AMENDED SOIL FOR PLANTING - REFER TO AGRONOMIC SOILS REPORT
6. PLANT PIT EXCAVATION
7. PLANT TABS - SEE SPECIFICATION FOR QUANTITIY PER SHRUB
8. ROOT-BALL
9. NATIVE SOIL



A TREE STAKING AND PLANTING DETAIL (15 gal, 24")

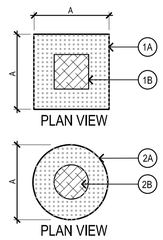
LEGEND
1. TREATED LODGE POLE PINE TREE STAKE (3 inch dia. x 10 feet long for 36" box tree) (3 inch dia. x 10 feet long for 24" box tree) (2 inch dia. x 10 feet long for 15 gal. tree)
2. TWIST-BRACE BY V.I.T. PRODUCTS (2 PER TREE) (TB36 for 36" box tree) (TB24 for 15 gal. & 24" box tree)
3. MULCH PER GENERAL PLANTING NOTES
4. SET TOP OF ROOT BALL 1 INCH ABOVE FINISH GRADE
5. CONSTRUCT WATER BASIN - 3" HIGH
6. FINISH GRADE
7. PLANT TABS - PLACE IN TOP 12" OF PLANTING HOLE. SEE SPECIFICATIONS FOR QUANTITY PER TREE
8. AMENDED BACKFILL PER SOILS REPORT
9. ROOTBALL
10. NATIVE SUBGRADE



NOTE:
SECURE TWIST-BRACE TO TREE STAKE USING GALVANIZED NAILS OR S.S. WOOD SCREWS. THE TYPE AND SIZE OF NAILS AND/OR SCREWS TO BE APPROVED BY LANDSCAPE ARCHITECT.

D PLANT PIT DIMENSIONS

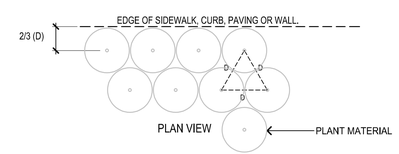
CONTAINER/BOX SIZE	"A" WIDTH/DIAMETER	DEPTH
1 GALLON	12 INCHES	12 INCHES
5 GALLON	26 INCHES	22 INCHES
15 GALLON	36 INCHES	24 INCHES
24 INCH BOX	48 INCHES	28 INCHES
30 INCH BOX	54 INCHES	33 INCHES
36 INCH BOX	66 INCHES	44 INCHES
48 INCH BOX	84 INCHES	60 INCHES



BOX TREES
- 1A — PLANT PIT TO BE SQUARE, SEE CHART ABOVE FOR THE PLANT PIT DIMENSIONS.
- 1B — ROOTBALL

CONTAINER PLANTS
- 2A — PLANT PIT TO BE ROUND, SEE CHART ABOVE FOR THE PLANT PIT DIMENSIONS.
- 2B — ROOTBALL

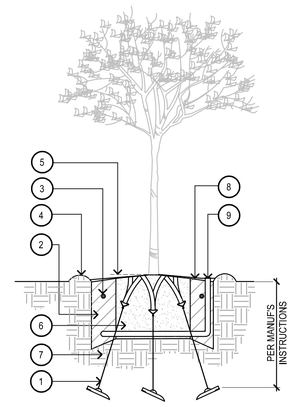
C TRIANGULAR SPACING DETAIL



NOTE:
LOCATE PLANTS SPACED EQUAL DISTANCE (D) FROM EACH OTHER AS SHOWN, REFER TO THE PLANT LEGEND FOR DISTANCE (D).

E TREE ANCHORING

LEGEND
1. DUCKBILL TREE ANCHOR MODEL 88 RBK NYLON STRAP WITH HAND RATCHET TRIANGULAR W/ 42" CABLE & D RINGS SET PER MANUFACTURER'S INSTRUCTIONS.
2. AMENDED BACKFILL PER SOILS REPORT
3. PLANT TABS - PLACE IN TOP 12" OF PLANTING HOLE. SEE SPECIFICATIONS FOR QUANTITY PER TREE
4. CONSTRUCT WATER BASIN - 3" HIGH
5. SET TOP OF ROOT BALL 2 INCH ABOVE FINISH GRADE
6. ROOTBALL
7. NATIVE SUBGRADE
8. 2" WOOD MULCH OR 1" THK NON-STABILIZED DECOMPOSED GRANITE OVER ROOTBALL.
9. 4" AERATION TUBE W/ LOCKING BLACK NDS CAP. SUBMITTAL REQUIRED.
10. 4" PERFORATED PVC PIPE ON 4 SIDES TYP.



NOTE:
FOR TREES W/ 6" MAXIMUM CALIPER SEE PLANTING PLAN

CITY OF GARDENA
FREEWAY CITY
INCORPORATED 1930

PREPARED BY:
REGISTERED LANDSCAPE ARCHITECT
GARY M. VASQUEZ
NO. 3883
SIGNATURE
EXP. Feb. 2025
6-30-2023
DATE
STATE OF CALIFORNIA

David Volz Design
Landscape Architects And Park Planners
Coorporate Office: 151 Kalmus Drive, Suite M8,
Costa Mesa, CA 92626
Phone: 714.641.1300

GARY VASQUEZ
R.L.A. NO. 3883
DATE
EXP 02/31/2025

NO.	REVISIONS	DATE	BY	APP.
1	REVISION 1	10-02-24		

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION
PLANTING DETAILS AND NOTES
PROJECT: ROWLEY PARK ELECTRONIC SIGN
LIMITS:
LP.2

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES	

APPROVED BY: Allan Rigg DATE: 10/17/24
P.W. DIRECTOR/CITY ENGINEER R.C.E. NO.
SHT. 10 OF 15
DWG. NO. 5-2615

FILE PATH: W:\CITY OF GARDENA\ROWLEY PARK READER SIGN BOARD\03 - CONSTRUCTION DOCUMENTS\$PLANTING PLAN.DWG, PLOT TIME: 10/4/2024 4:13:03 PM

REVIEWED FOR CODE COMPLIANCE

USING THE FOLLOWING CODES:

- ☐ 2022 CALIFORNIA RESIDENTIAL CODE
- ☑ 2022 CALIFORNIA BUILDING CODE
- ☑ 2022 CALIFORNIA ELECTRICAL CODE
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- ☐ OTHER: _____

COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.

BY: bpr.rserrato DATE: Oct 17, 2024

CITY OF GARDENA

Rev 1 only

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST CALIFORNIA CODE OF REGULATIONS (CCR), NATIONAL ELECTRICAL CODE EDITION AND ALL APPLICABLE LOCAL CODES AND REGULATIONS.
2. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS IN COMPLIANCE TO UL REQUIREMENTS TO ACCOMMODATE CONDUCTORS SHOWN.
3. WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF MECHANICAL, PLUMBING AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ANY WORK.
5. CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL BUILDING EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
6. LOCATION OF LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS. AT OR NEAR DOORS, INSTALL SWITCHES ON SIDE OPPOSITE TO DOOR HINGE. VERIFY FINAL HINGE LOCATION IN FIELD PRIOR TO ANY WORK.
7. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OR OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND MINIMUM CODE REQUIRED WORKING CLEARANCES AT ALL TIMES.
8. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL WALL OUTLET BOXES FOR SWITCHES, BELL/STROBES, FIRE ALARM PULL STATIONS. RECEPTACLES ETC. WITH CABINETS, FURNITURE, EQUIPMENT ETC., TO AVOID CONFLICT.
9. WHERE ELECTRIC MOTORS OR HEATERS ARE INSTALLED IN HUNG CEILINGS, PROVIDE DISCONNECT SWITCH IN HUNG CEILING WITHIN REACH FROM ACCESS POINT.
10. FURNISH APPROVED EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.
11. FURNISH PULL STRING IN EACH RACEWAY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED.
12. NOT MORE THAN THREE LIGHTING OR CONVENIENCE OUTLET CIRCUITS ARE PERMITTED IN ONE CONDUIT, PROVIDE SEPARATE CONDUIT FOR EACH HOMERUN INDICATED ON THE DRAWING, UNLESS INDICATED OTHERWISE.
13. PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. PULL BOXES SHALL BE ACCESSIBLE. THE SIZE OF PULL BOX SHALL COMPLY WITH N.E.C. REQUIREMENTS.
14. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILING SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURES.
15. SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATION FOR ADDITIONAL CONNECTION REQUIREMENTS TO CONTROL PANELS, CONTROL TRANSFORMERS, POWER FOR CONTROL SYSTEM EP AND PE SWITCHES, TIME CLOCKS, VALVES, STATS, RELAYS, DUCT SMOKE DETECTOR LOCATIONS, ETC. INDICATED ON CONTROL WIRING DIAGRAMS. ELECTRICAL CONTRACTOR SHALL VERIFY FINAL CONTROL WIRING REQUIREMENTS WITH MECHANICAL AND PLUMBING CONTRACTORS PRIOR TO ANY WORK AND PROVIDE ALL NECESSARY DEVICES AND CONNECTIONS AS REQUIRED.
16. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT INCLUDING THOSE THAT ARE EXPOSED TO OUTSIDE ENVIRONMENT (UP TO 16') SHALL BE WEATHERPROOF TYPE, NEMA 3R.
17. NO CONDUIT RUNS SHALL BE ALLOWED IN CONCRETE SLABS. ALL CONDUITS WILL BE PLACED ABOVE ACCESSIBLE CEILING SPACES UNLESS SPECIFICALLY INDICATED TO BE UNDERGROUND.
18. LIGHTING, POWER, TELEPHONE AND COMMUNICATIONS OUTLETS SHALL NOT BE PLACED BACK-TO-BACK.
19. WHERE MORE THAN ONE LIGHT SWITCH OCCURS AT SAME LOCATION, SWITCHES SHALL BE MOUNTED IN A MULTIPLE GANG BOX UNDER A SINGLE COVER PLATE. PLATES WITH MORE THAN (3) LIGHT SWITCHES SHALL BE LABELED TO INDICATE THE LIGHT FIXTURES CONTROLLED.
20. DISCONNECT SWITCHES SHALL BE MOUNTED ON INDIVIDUAL SUPPORTS, OR OTHERWISE DIRECTLY ON EQUIPMENT, PROVIDED NO MODIFICATION TO EQUIPMENT IS NECESSARY.
21. ALL ELECTRICAL POWER LIGHTING, TELEPHONE OR SIGNAL WIRING IN FIRE RATED WALL IS TO BE INSTALLED IN A METALLIC CONDUIT SYSTEM.
22. ALL ELECTRIC MATERIAL SHALL BE LISTED BY "UL" FOR THE TYPE OF APPLICATION AND "UL" LABEL SHALL APPEAR ON ALL ELECTRICAL EQUIPMENT.
23. CONTACT UTILITY COMPANIES FOR SCOPE OF WORK PRIOR TO SUBMITTING BID; INCLUDE UTILITY CHARGES IF ANY.
24. ALL DISTRIBUTION AND CONTROL EQUIPMENT (SUCH AS CB's, SWITCHES, CONTACTORS, ETC.), TERMINATIONS SHALL BE FULLY RATED PER UL AS FOLLOWS:

    a. 125A OR LESS : 60°C OR MORE;
    b. MORE THAN 125A : 75°C OR MORE.

25. ANY ERRORS, OMISSIONS, OR DESIGN DISCREPANCIES ON PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER FOR CLARIFICATION OR CORRECTION PRIOR TO CONSTRUCTION AND PREPARATION OF SUBMITTAL PACKAGES.
26. CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC.(UL) LISTED, 600 VOLT INSULATION OF TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS. CONDUCTORS SHALL BE COPPER.

    1. BRANCH CIRCUITS - LIGHTING AND POWER.

    a. #10 AWG AND SMALLER, SOLID WIRE TYPE THW OR THHN/THWN, THHW(THHN FOR DRY LOCATION ONLY).
    b. #8 AWG TO #2 AWG, STRANDED TYPE THW OR THHN/THHW.
    c. #1 AWG AND LARGER, STRANDED TYPE XHHW.

    2. FEEDERS : TYPE THW OR THHN/THWN, OR XHHW.

27. PROVIDE GREEN INSULATED GROUNDING CONDUCTOR IN EACH RACEWAY INCLUDING CONDUITS, PLUG STRIPS, WIREMOLD. SIZE OF GROUNDING SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ARTICLE 250.
28. WIRING METHOD SHALL BE EMT ABOVE GROUND AND MOUNTED IN CONCEALED SPACES AND SCHEDULE-40 PVC FOR UNDERGROUND INSTALLATION. USE RIGID WHEN ENCASED IN CONCRETE OR SUSCEPTIBLE TO DAMAGE.
29. USE 10AWG CONDUCTORS FOR 20 AMPERE, 120V BRANCH CIRCUITS LONGER THAN 75 FEET.
    USE 10AWG CONDUCTORS FOR 20 AMPERE, 277V BRANCH CIRCUITS LONGER THAN 200 FEET.
30. ALL SWITCH LOCATIONS ARE REQUIRED TO HAVE A NEUTRAL CONDUCTOR PROVIDED AT THE SWITCH LOCATION PER CEC 404.2(C).
31. UNLESS OTHERWISE INDICATED, SHARING OF NEUTRAL/GROUNDED CONDUCTORS AMONG SINGLE PHASE BRANCH CIRCUITS OF DIFFERENT PHASES INSTALLED IN THE SAME RACEWAY IS NOT PERMITTED. PROVIDE DEDICATED NEUTRAL/GROUNDED CONDUCTOR FOR EACH INDIVIDUAL BRANCH CIRCUIT.
32. UNLESS OTHERWISE INDICATED, PROVIDE A SEPARATE SWITCHED AND UNSWITCHED PHASE CONDUCTOR TO ALL CONTROLLED RECEPTACLES REGARDLESS OF RECEPTACLE CONFIGURATION.

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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ABBREVIATIONS

A	AMPERE
AF	AMPERE FRAME RATING (CIRCUIT BREAKER)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFU	AMPERE FUSE RATING (FUSE)
AIC	AMPERE INTERRUPTING CAPACITY
AS	AMPERE SWITCH RATING (FUSE)
AT	AMPERE TRIP RATING (CIRCUIT BREAKER)
AWG	AMERICAN WIRE GAUGE
BKBD	BACKBOARD
BLDG	BUILDING
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CFSD	COMBINATION FIRE SMOKE DAMPER
CO	CONDUIT ONLY
CONC	CONCRETE
CT	CURRENT TRANSFORMER
CU	COPPER
CL	CENTERLINE
DISC	DISCONNECT
DSBN	DISTRIBUTION SECTION
DN	DOWN
DWG	DRAWING
EA	EACH
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EXIST, (E)	EXISTING
EXO	EXTERNAL OPERABLE DISCONNECT
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FF	FINISHED FLOOR
FG	FINISHED GRADE
FLA	FULL LOAD CURRENT
FLUOR	FLUORESCENT
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HV	HIGH VOLTAGE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IG	ISOLATED/INSULATED GROUND
INCAND	INCANDESCENT
ISC	SHORT CIRCUIT CURRENT AVAILABLE IN RMS SYMMETRICAL AMPERES
J-BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KW	KILOWATT
KV	KILO VOLT
KVA	KILO VOLT-AMPERE
LDC	LOCAL DISTRIBUTION CABINET
LDF	LOCAL DISTRIBUTION FRAME
LCL	LONG CONTINUOUS LOAD
LTG	LIGHTING
LV	LOW VOLTAGE
MFR	MANUFACTURER
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MIN	MINIMUM
MH	MANHOLE / METAL HALIDE
M/M	METER AND MAIN SECTION
MULTI	MULTI-METER SECTION
MV	MEDIUM VOLTAGE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NEW (N)	NEW, TO BE FURNISHED AND INSTALLED BY CONTRACTOR
NF	NON-FUSED
NIC	NOT IN CONTRACT
N/L	NIGHT LIGHT
NO	NUMBER, NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
P	POLE
PB	PULL BOX
PF	POWER FACTOR
PNL	PANEL
POC	POINT OF CONNECTION
PP	POWER POLE
PWR	POWER
PVC	POLYVINYL CHLORIDE
QUAD	QUADRUPLEX
QTY	QUANTITY
REQD	REQUIRED
REQMT	REQUIREMENT
RGS	RIGID GALVANIZED STEEL
RMC	RIGID METALLIC CONDUIT
RM	ROOM
RNC	RIGID NONMETALLIC CONDUIT
SHT	SHEET
SN	SOLID NEUTRAL
SPEC	SPECIFICATIONS
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIME CLOCK
TEL	TELEPHONE
TERM	TERMINAL
TP	TEMPORARY POLE
TYP	TYPICAL
UGPS	UNDERGROUND PULL SECTION
UL	UNDERWRITERS LABORATORY
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
V	VOLT, VOLTAGE
VA	VOLT-AMPERE
VFC	VARIABLE FREQUENCY CONTROLLER
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WH	WATT-HOUR
WP	WEATHERPROOF
WT	WEATHERTIGHT
WW	WIREWAY
XP	EXPLOSION PROOF
Z	IMPEDANCE
4W	FOUR-WIRE
3W	THREE-WIRE
5S	JUNCTION BOX (4 11/16" SQUARED X2 1/8" DEEP)
Ø	DIAMETER, PHASE
#	NUMBER
°C	DEGREE CELSIUS
(E)	EXISTING DEVICE TO REMAIN
(R)	REMOVE EXISTING DEVICE AND ASSOCIATED CONDUIT AND WIRE
(RL)	REMOVE EXISTING DEVICE AND RELOCATE AS SHOWN ON PLAN
(NL)	NEW LOCATION OF RELOCATED DEVICE

NOTE TO CONTRACTOR

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR THE SAME.

POWER LEGENDS AND SYMBOLS (CON'T)

SYMBOL	DESCRIPTION
	MOLDED CASE SHUNT TRIP CIRCUIT BREAKER
	MOLDED CASE DRAW OUT TYPE CIRCUIT BREAKER
E	REMOTE CONTROLLED, ELECTRONICALLY OPERATED CIRCUIT BREAKER
	SWITCH AND FUSE ASSEMBLY
	UTILITY COMPANY PULL SECTION LUGS
	GROUNDING CONNECTION TO MAIN BUILDING GROUND SYSTEM U.O.N.
N G	GROUNDING CONNECTION AT SWITCHGEAR/DISTRIBUTION BOARD WITH NEUTRAL BONDING.
M	IN-LINE UTILITY COMPANY METER
M	UTILITY METER WITH CIRCUIT TRANSFORMERS (CT'S) METER
SS	SOLID STATE DEVICE CONNECTED TO THE POWER DISTRIBUTION SYSTEM
GFP	GROUND FAULT PROTECTION DEVICE CONNECTED TO THE POWER DISTRIBUTION SYSTEM
SPD	SURGE PROTECTION DEVICE
T OR	TRANS. "T-X" 300 KVA PRI:480V Δ SEC:208Y/120 GND. — TRANSFORMER WITH SECONDARY GROUND. REFER TO SINGLE LINE DIAGRAM FOR KVA RATING AND GROUNDING REQUIREMENTS.
G	ON-SITE GENERATOR SET
200-D	CONDUIT WIRING DESCRIPTION PER FEEDER SCHEDULE ON OTHER PLAN
200-Y	CONDUIT WIRING DESCRIPTION PER FEEDER SCHEDULE ON OTHER PLAN
PB	CONCRETE ELECTRICAL PULL BOX WITH LID APPROPRIATE FOR INSTALLATION LOCATION. LID SHALL BE LABELED "ELECTRICAL" OR "COMM" ACCORDING TO USE.

LIGHTING LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
FN 2ab/2AB N/L	2'X4' RECESSED LUMINAIRE. FN INDICATES LUMINAIRE TYPE - REFER TO LUMINAIRE SCHEDULE, TYPICAL. SUBSCRIPT 2ab REFERS TO CIRCUIT AND SWITCH LEG 'a' AND 'b', SUBSCRIPT 2AB REFERS TO CIRCUIT AND ZONE DESIGNATION 'A' AND 'B'. SUBSCRIPT N/L REFERS TO UNSWITCHED LEG. TYPICAL OF ALL LIGHTING.
FNE	2'X4' RECESSED LUMINAIRE WITH 90MIN. EMERGENCY BATTERY BACKUP
	SURFACE MOUNTED DOUBLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED)
	SURFACE MOUNTED SINGLE FACE EXIT SIGN (UNIVERSAL ARROWS INDICATED AS NEEDED)
Sxab	SWITCH, SINGLE POLE 20A. MOUNTED 48" A.F.F. TO TOP OF DEVICE. SUBSCRIPTS INDICATE THE FOLLOWING: M - MOTOR RATED 3 - THREE WAY 4 - FOUR WAY K - KEY OPERATED D - DIMMER SWITCH T - TIMED SWITCH a, b, c, ETC. - DESIGNATES SWITCH-LEGS CONTROLLED AND QUANTITY OF SWITCHES AT EACH LOCATION.

APPLICABLE CODES

1. 2022 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2022 CALIFORNIA BUILDING CODE (CBC),PART 2, TITLE 24 C.C.R. (IBC WITH AMENDMENTS)
3. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (NEC WITH AMENDMENTS)
4. 2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R. (UMC WITH AMENDMENTS)
5. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (UPC WITH AMENDMENTS)
6. 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (IFC WITH AMENDMENTS)
7. 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
8. 2022 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
9. 2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24 C.C.R.)
10. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSG), PART 11, TITLE 24 C.C.R.

SHEET INDEX

SHEET NUMBER	SHEET TITLE
E0.1	ELECTRICAL LEGENDS & NOTES
E0.2	SINGLE LINE DIAGRAM
E1.1	ELECTRICAL SITE PLAN
E2.1	ELECTRICAL SPECIFICATIONS

POWER LEGEND AND SYMBOLS

SYMBOL	DESCRIPTION
A-1	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N. SUBSCRIPT "A-1" REFERS TO PANEL DESIGNATION WITH CIRCUIT NUMBER. TYPICAL OF ALL RECEPTACLE OUTLETS.
	DOUBLE DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS, GFCI TYPE) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) WITH MOUNTING HEIGHT HORIZONTALLY ABOVE COUNTER TOP PER ARCHITECTURAL PLANS OR APPROVAL.
	DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS, GFCI TYPE) WITH MOUNTING HEIGHT HORIZONTALLY ABOVE COUNTER TOP PER ARCHITECTURAL PLANS OR APPROVAL.
	CA TITLE 24 COMPLIANT DUPLEX RECEPTACLE OUTLET, HALF-CONTROLLED, CONVENIENCE, WITH PERMANENT MARKING. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	CA TITLE 24 COMPLIANT DOUBLE DUPLEX RECEPTACLE OUTLET, HALF-CONTROLLED, CONVENIENCE, WITH PERMANENT MARKING. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	SIMPLEX RECEPTACLE OUTLET, CONVENIENCE WITH (2)USB PORTS. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N. LEVITON MODEL #T5832.
WP	WEATHERPROOF DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	DUPLEX RECEPTACLE OUTLET, SINGLE SPLIT-CIRCUIT SWITCHED. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	SURFACE MOUNTED DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) MOUNTED +15" A.F.F. TO BOTTOM OF DEVICE U.O.N.
	RECESSED CEILING MOUNTED DUPLEX RECEPTACLE OUTLET, CONVENIENCE. (20 AMPS, 125 VOLTS) U.O.N.
	ABOVE CEILING, CONCEALED, JUNCTION BOX, WITH COVER, PER NATIONAL ELECTRICAL CODE (NEC) TABLE 314.16(A)(B), 4" SQUARE DEEP, WITH PLASTER RING.
	RECESSED WALL MOUNTED JUNCTION BOX, WITH COVER, PER NATIONAL ELECTRICAL CODE (NEC) TABLE 314.16(A)(B), 4" SQUARE DEEP, WITH PLASTER RING.
SEE NOTE BELOW	DUPLEX RECEPTACLE, FLUSH IN FLOOR, WATERTIGHT JUNCTION BOX (HINGED BRASS COVER: 20 AMP, 120 VOLT, 2-POLE, 3-WIRE) U.O.N. DOUBLE DUPLEX RECEPTACLE, FLUSH IN FLOOR, WATERTIGHT JUNCTION BOX (20 AMP, 120 VOLT, 2-POLE, 3-WIRE) U.O.N. JUNCTION BOX, FLUSH IN FLOOR, WATERTIGHT (HINGED BRASS COVER: 20 AMP, 120 VOLT, 2-POLE, 3-WIRE) U.O.N. FLOOR BOX NOTE WHERE INDICATED IN AN EXISTING SLAB, PROVIDE SAWCUTTING OF SLAB AS REQUIRED AND EXTEND CONDUIT AND WIRING TO JUNCTION BOX IN NEAREST ACCESSIBLE WALL. DO NOT SAWCUT THROUGH POST TENSION SLABS.
L5-30R	SPECIALTY OUTLET. VERIFY NEMA CONFIGURATION AS NOTED ON PLANS.
OR	BRANCH PANELBOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE. (SURFACE MOUNTED)
	BRANCH PANELBOARD, WALL MOUNTED, SEE PLANS AND SCHEDULE. (RECESSED MOUNTED)
	MAIN SWITCHBOARD, POWER OR LIGHT, FLOOR STANDING ENCLOSURE, (SEE SINGLE LINE DIAGRAM AND LOAD SUMMARY)
F	DISCONNECT SWITCH H.P. RATED 600 VOLTS RATED. "F" INDICATES FUSE TYPE. FUSES PER APPROVED MANUFACTURERS SHOP DRAWINGS.
#2	MAGNETIC MOTOR STARTER H.P. RATED (NUMBER INDICATES NEMA SIZE)
+96" OR 7'-6" AFF	MOUNTING HEIGHT FROM FINISHED FLOOR TO BOTTOM LINE OF OUTLET OR EQUIPMENT. FOR LIGHT FIXTURES, IT IS TO BOTTOM OF FIXTURE.
	CONDUIT STUBBED AND CAPPED, SIZE AND QUANTITIES PER PLANS.
	CONDUIT CONCEALED IN OR UNDER FLOOR, 3/4" UON, COORDINATE WITH G.C.; OR, BURIAL CONDUIT UNDERGROUND IN SCHEDULE - 40 PVC UNLESS NOTED OTHERWISE. VERIFY DEPTH AND TRENCHING WITH G.C.
DETAIL No. SHEET No.	DETAIL REFERENCE
EQUIPMENT ID. No.	EQUIPMENT REFERENCE
PR	ELECTRICAL UTILITY PRIMARY
SC	ELECTRICAL UTILITY SECONDARY
T	UTILITY TELEPHONE
OH	TEMPORARY OVERHEAD CABLING
A-1,3	1" U.O.N HOMERUN TO CIRCUITS #1 AND #3 IN PANEL "A". (CROSSMARKS INDICATE NUMBER OF PHASES AND NEUTRAL. PROVIDE GROUND WIRE.)
	GROUND WELL
	EXISTING (DASH INDICATES) ELECTRICAL EQUIPMENT
	TELEPHONE BACKBOARD 2'X4'X3/4" PLYWOOD. PROVIDE 2" CONDUIT TO TELEPHONE POC.
	MOLDED CASE CIRCUIT BREAKER

CITY OF GARDENA — INCORPORATED 1930

PREPARED BY:

REGISTERED PROFESSIONAL ENGINEER — BRANDON K. RAMIREZ — 22839 — SIGNED:09/10/2024 — ELECTRICAL — STATE OF CALIFORNIA

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DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

NO.	REVISIONS	DATE	BY	APP.
1	REVISION 1	10-02-24		

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION

ELECTRICAL LEGENDS & NOTES

PROJECT : ROWLEY PARK ELECTRONIC SIGN

LIMITS:

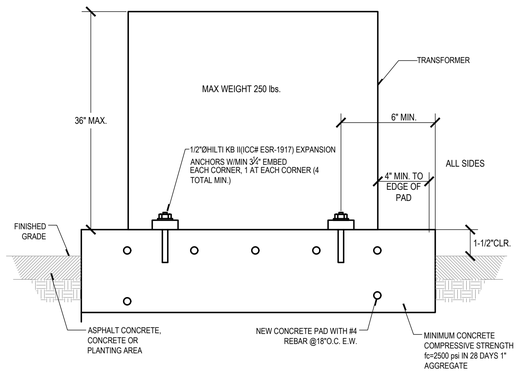
E0.1

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES, SM	

APPROVED BY: Allan Rigg DATE: 10/17/24
P.W. DIRECTOR/CITY ENGINEER R.C.E. NO.

SHT 11 OF 15 DWG. NO. 5-2615

FILE PATH: R:_PROJECT\2023\23-176 GLENDALE ROWLEY PARK SIGN UPGRADE_CAD\23-176 E-FRNTSHT.DWG, PLOT TIME: 9/10/2024 2:51:11 PM



TRANSFORMER MOUNTING PAD DETAIL | 6

REVIEWED FOR CODE COMPLIANCE

USING THE FOLLOWING CODES:

- ☐ 2022 CALIFORNIA RESIDENTIAL CODE
- ☑ 2022 CALIFORNIA BUILDING CODE
- ☑ 2022 CALIFORNIA ELECTRICAL CODE
- ☑ 2022 CALIFORNIA PLUMBING CODE
- ☑ 2022 CALIFORNIA MECHANICAL CODE
- ☑ 2022 CALIFORNIA ENERGY CODE
- ☑ 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- ☐ 2022 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
- ☐ 2022 CALIFORNIA FIRE CODE
- ☐ OTHER: _____

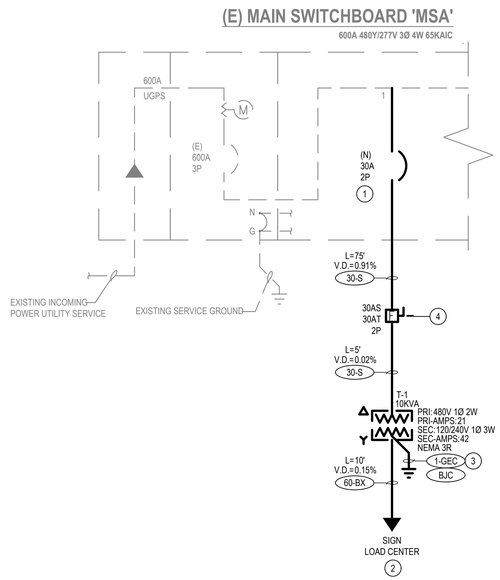
COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.

BY: bpr.rserrato DATE: Oct 17, 2024

CITY OF GARDENA

Rev 1 only

- | 4



LOAD SUMMARY

EXISTING MAIN SWITCHBOARD ' MSA '

		LOAD VA	LOAD AMPS
1	EXISTING LOAD* (KW)	113000	136
2	KW TO KVA (0.8PF)	28250	34
3	+25% EXIST LOAD PER NEC 220.87	35313	42
4	NEW SIGN	6322	8
5	SPACE		0
6	SPACE		0
7	SPACE		0
8	SPACE		0
9	SPACE		0
10	SPACE		0
	TOTAL LOAD INCLUDING NEC DEMAND FACTORS:	182885	220
	480Y/277V 3PH 4W NEW SWITCHBOARD RATED:		600

*EXISTING LOAD BASED ON PEAK DEMAND FROM 1 YR. UTILITY METERING HISTORY

SINGLE LINE DIAGRAMS | 1

GENERAL NOTES

1. REFER TO 'GENERAL NOTES' ON ELECTRICAL LEGENDS AND NOTES SHEET FOR WIRING METHODS, MATERIALS, AND REQUIREMENTS.
2. CONTRACTOR SHALL UPDATE ALL MODIFIED PANEL DIRECTORIES OR CREATE A NEW TYPED DIRECTORY, IF ONE DOES NOT EXIST, IDENTIFYING EACH CIRCUIT AND INSTALLED CIRCUIT LOADS, MOUNTED IN GLASS OR PLASTIC INSIDE DOOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING DIRECTORIES TO INDICATE ALL NEW CIRCUITS AND ACTUAL AREA SERVED WHICH IS NOT NECESSARILY THE DESCRIPTION INDICATED ON THE BID DOCUMENTS. USE A COMPUTER OR TYPEWRITER TO CREATE DIRECTORY; HANDWRITTEN DIRECTORIES ARE NOT ACCEPTABLE.
3. SERVICE EQUIPMENT AT OTHER THAN DWELLING UNITS SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC 110.24. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT-CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. THE CALCULATION SHALL BE DOCUMENTED AND MADE AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, INSPECT, MAINTAIN, OR OPERATE THE SYSTEM. WHEN MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR THAT AFFECT THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE, THE MAXIMUM AVAILABLE FAULT CURRENT SHALL BE VERIFIED OR RECALCULATED AS NECESSARY TO ENSURE THE SERVICE EQUIPMENT RATINGS ARE SUFFICIENT FOR THE MAXIMUM AVAILABLE FAULT CURRENT AT THE LINE TERMINALS OF THE EQUIPMENT. THE REQUIRED FIELD MARKING(S) IN 110.24(A) SHALL BE ADJUSTED TO REFLECT THE NEW LEVEL OF MAXIMUM AVAILABLE FAULT CURRENT.
4. EQUIPMENT DATA AND CONFIGURATIONS SHOWN ON THE SINGLE LINE DIAGRAM PROVIDE GENERAL EQUIPMENT INFORMATION. CONTRACTOR SHALL REVIEW ELECTRICAL PLANS AND SPECIFICATIONS TO VERIFY ALL EQUIPMENT ASSOCIATED DESIGN INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY COMPONENTS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION. ANY DISCREPANCIES BETWEEN DESCRIPTIONS, SPECIFICATIONS, AND EXISTING CONDITIONS ARE TO BE PRESENTED TO THE ENGINEER OF RECORD PRIOR TO COMPLETION OF THE BID PROCESS FOR CLARIFICATION. NO EQUIPMENT SHALL BE ORDERED UNTIL DISCREPANCIES ARE RESOLVED THROUGH A FORMAL RFI PROCESS.
5. GROUND ALL ELECTRICAL EQUIPMENT, BRANCH CIRCUITS, FEEDERS, PANEL AND DISTRIBUTION BOARDS, ELECTRICAL SERVICES, ETC. PER ADOPTED NEC ARTICLES 250.
6. ELECTRICAL CONTRACTOR TO INCLUDE IN BID ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING OF ELECTRICAL EQUIPMENT, GROUND FAULT, CONDUCTORS, ETC.

CONSTRUCTION NOTES

1. PROVIDE NEW CIRCUIT BREAKER IN EXISTING MAIN SWITCHGEAR. TYPE AND AIC RATING TO MATCH EXISTING.
2. CONTRACTOR IS TO MAKE FINAL CONNECTION TO SIGN LOAD CENTER. LOAD CENTER IS LOCATED WITHIN SIGN STRUCTURE.
3. (1)#6 CU. BOND TO DRIVEN GROUND ROD, SIZED PER NEC TABLE 250.66.
4. DISCONNECT TO BE NEMA 3R RATED AND MOUNTED ADJACENT TO TRANSFORMER. PROVIDE UNISTRUT AND CONCRETE PAD AS REQUIRED TO SECURELY MOUNT DISCONNECT.

NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY W/CEC 250.66.
2. CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS W/CONDUCTORS AS SHOWN. SEPARATE AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56)

GROUND ROD DETAIL | 7

GENERAL NOTES:

1. PULLBOX TO BE SIZED PER NEC, U.O.N.
2. PROVIDE COVER LABELED WITH "POWER" OR "DATA" DESIGNATION.

PULLBOX INSTALLATION | 5

GENERAL NOTES:

1. PLACE CONDUIT IN TRENCH, FILL, AND COMPACT TO 90%. REPAIR AREA TO MATCH SURROUNDING. BACK FILL IS TO BE FREE OF LARGE ROCK, PAVING MATERIALS, ETC., THAT MAY CAUSE PHYSICAL DAMAGE TO CONDUIT. PROVIDE GRANULAR MATERIAL WITH A SAND EQUIVALENT (SE) GREATER THAN 30.
2. PROVIDE 30" MINIMUM COVER WHERE CONDUIT IS PLACED UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.
3. CONDUITS PLACED UNDER OR IN STRUCTURAL FOOTINGS SHALL BE GALVANIZED RIGID METAL (RMC) WRAPPED WITH 20 MIL PVC TAPE. THE COUPLINGS CONNECTED TO THE RMC ELBOW SHALL BE GALVANIZED MATERIAL.
4. MINIMUM TRENCH WIDTH TO BE 24".

BRANCH CIRCUIT CONDUIT BURIAL | 8

G.E.C. SCHEDULE

LABEL	SERVICE/O.C.P.D.	CONDUCTOR	CONDUIT
1-GEC	60A-100A	#6	3/4"
2-GEC	110A-200A	#4	1"
3-GEC	225A-400A	#1/0	1"
4-GEC	> 400A	#3/0	1-1/4"

NOTE:
ALL GROUNDING ELECTRODE CONDUCTOR SIZES ARE BASED ON BARE COPPER CONDUCTOR UNLESS OTHERWISE NOTED AND SIZE PER CEC TABLE 250.66.

600V FEEDER SCHEDULE 1Ø 2W

LABEL	TYPE	SETS	PHASE	NEUTRAL	GROUND	CONDUIT
20-S	20A-2W	1	2 # 12	N/A	1 # 12	3/4"
30-S	30A-2W	1	2 # 10	N/A	1 # 10	3/4"
40-S	40A-2W	1	2 # 8	N/A	1 # 10	1"
50-S	50A-2W	1	2 # 6	N/A	1 # 10	1"
60-S	60A-2W	1	2 # 6	N/A	1 # 10	1"
70-S	70A-2W	1	2 # 4	N/A	1 # 8	1"
80-S	80A-2W	1	2 # 3	N/A	1 # 8	1-1/4"
90-S	90A-2W	1	2 # 2	N/A	1 # 8	1-1/4"
100-S	100A-2W	1	2 # 1	N/A	1 # 8	1-1/4"
125-S	125A-2W	1	2 # 1	N/A	1 # 6	1-1/2"
150-S	150A-2W	1	2 # 1/0	N/A	1 # 6	1-1/2"
175-S	175A-2W	1	2 # 2/0	N/A	1 # 6	2"
200-S	200A-2W	1	2 # 3/0	N/A	1 # 6	2"

NOTE:
ALL CONDUCTOR SIZES ARE BASED ON TYPE THHN COPPER CONDUCTOR UNLESS OTHERWISE NOTED. THE AMPACITY OF CONDUCTORS SHALL BE BASED ON THE TERMINALS NOT TO EXCEED 60°C FOR CONDUCTOR SIZE #14 THROUGH #1 AWG OR 75°C FOR CONDUCTOR SIZE OVER #1 AWG AS PER NEC 110.14(C).

600V FEEDER SCHEDULE 1Ø 3W - XFMR SEC

LABEL	TYPE	SETS	PHASE	NEUTRAL	GROUND	CONDUIT
30-BX	30A-4W	1	2 # 10	1 # 10	1 # 8	3/4"
50-BX	50A-4W	1	2 # 6	1 # 6	1 # 8	1"
70-BX	70A-4W	1	2 # 4	1 # 4	1 # 8	1-1/4"
100-BX	100A-4W	1	2 # 1	1 # 1	1 # 6	1-1/2"
125-BX	125A-4W	1	2 # 1	1 # 1	1 # 6	1-1/2"
200-BX	200A-4W	1	2 # 3/0	1 # 3/0	1 # 4	2"
225-BX	225A-4W	1	2 # 4/0	1 # 4/0	1 # 2	2 1/2"
300-BX	300A-4W	1	2 # 350 KCM	1 # 350 KCM	1 # 2	3"
400-BX	400A-4W	1	2 # 600 KCM	1 # 600 KCM	1 # 1/0	3 1/2"
600-BX	600A-4W	2	2 # 350 KCM	1 # 350 KCM	1 # 2/0	3"
1000-BX	1000A-4W	3	2 # 500 KCM	1 # 500 KCM	1 # 4/0	3 1/2"
1200-BX	1200A-4W	3	2 # 600 KCM	1 # 600 KCM	1 #250 KCM	4"

NOTE:
ALL CONDUCTOR SIZES ARE BASED ON TYPE THHN COPPER CONDUCTOR UNLESS OTHERWISE NOTED. THE AMPACITY OF CONDUCTORS SHALL BE BASED ON THE TERMINALS NOT TO EXCEED 60°C FOR CONDUCTOR SIZE #14 THROUGH #1 AWG OR 75°C FOR CONDUCTOR SIZE OVER #1 AWG AS PER NEC 110.14(C). GROUNDING CONDUCTOR SIZED PER TABLE 250.102(C)(1) FOR SEPARATELY DERIVED SYSTEMS.

BONDING CONDUCTOR SCHEDULE

LABEL	SERVICE/O.C.P.D.	CONDUCTOR
BJC	30A-60A	#8

NOTE:
ALL MAIN/SYSTEM/SUPPLY SIDE BONDING JUMPER CONDUCTOR SIZES ARE BASED ON TYPE BARE COPPER CONDUCTOR UNLESS OTHERWISE NOTED AND SIZED PER CEC TABLE 250.102(C)(1).

FEEDER SCHEDULES | 2

PREPARED BY:

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DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS

NO.	REVISIONS	DATE	BY	APP.
1	REVISION 1	10-02-24		

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION

SINGLE LINE DIAGRAM

PROJECT : ROWLEY PARK ELECTRONIC SIGN

LIMITS:

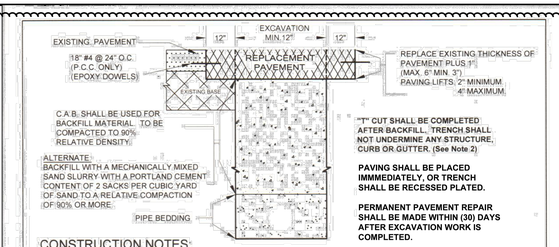
E0.2

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES, SM	

APPROVED BY: Allan Rigg DATE: 10/17/24
P.W. DIRECTOR/CITY ENGINEER R. C. E . NO.

SHT. 12 OF 15 DWG. NO. S-2615

FILE PATH: R:_PROJECT\2023\23-176 GLENDALE ROWLEY PARK SIGN UPGRADE_CAD\23-176 E-SLD.DWG, PLOT TIME: 9/10/2024 21:20 PM



"T" CUT SHALL BE COMPLETED AFTER BACKFILL. TRENCH SHALL NOT UNDERMINE ANY STRUCTURE, CURB OR GUTTER. (See Note 2)

PAVING SHALL BE PLACED IMMEDIATELY, OR TRENCH SHALL BE RECESSED PLATED.

PERMANENT PAVEMENT REPAIR SHALL BE MADE WITHIN (30) DAYS AFTER EXCAVATION WORK IS COMPLETED.

CONSTRUCTION NOTES:

1. ALL PAVEMENT CUTS SHALL BE VERTICAL FULL DEPTH SAW CUTS, MINIMUM 5'. ALL LONGITUDINAL PAVEMENT CUTS SHALL BE UNINTERRUPTED APPROXIMATELY PARALLEL TO THE TRENCH (MAX. 1'-6' LONGITUDINAL VARIANCE). ALL SAWCUTS SHALL BE VERTICAL WITH NO BROKEN EDGES. BROKEN EDGES SHALL BE SAW CUT PRIOR TO PAVING. ALL SAWCUTS SHALL HAVE A MINIMUM 1'-6" CLEARANCE FROM ANY TRAFFIC LOOPS.
2. THE EDGE OF PAVEMENT REPLACEMENT SHALL BE A MINIMUM OF 3' FROM EDGE OF GUTTER OR THE PAVEMENT SHALL BE REMOVED AND REINSTALLED TO THE GUTTER. EDGE OF TRENCH SHALL BE MINIMUM 1' FROM EDGE OF GUTTER OR CURB AND GUTTER. CONTRACTOR OR APPLICANT SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF EXISTING CURB AND GUTTER THAT SHIFTED OR MOVED DURING CONSTRUCTION.
3. IN P.C.C. PAVEMENT, A CUT OR REMOVAL WITHIN 3' OF AN EXISTING JOINT, CRACK OR SCOREMARK WILL REQUIRE ALL CONCRETE TO BE REMOVED AND REINSTALLED TO THE JOINT, CRACK OR SCOREMARK. NO CONCRETE CORNERS SHALL BE LESS THAN 90 DEGREES. ALL SCORE MARKS SHALL BE FORMED IN WET CONCRETE. NO SAWCUT JOINTS WILL BE ALLOWED.

   ANY REMOVAL IN P.C.C. PARKING LANES, CROSS GUTTERS, SPANDRELS ETC. WILL REQUIRE REMOVAL AND REINSTALLATION OF THE FULL WIDTH OF THE PARKING LANE, CROSS GUTTER, SPANDREL, CURB AND GUTTER ETC.
4. A.C. PAVEMENT SHALL BE C2 PG64-10 (CONVENTIONAL). ASPHALT PAVING OVER 300 SQ. FT. SHALL BE ACCOMPLISHED BY A SELF-PROPELLED MECHANICAL SPREADING AND FINISHING MACHINE. MINIMUM 5-TON ROLLER FOR COMPACTION IS REQUIRED. TACK COAT ALL EDGES.
5. PAVING SHALL BE PLACED ACCORDING TO THE "STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION" LATEST EDITION. SUBGRADE SHALL BE RECOMPACTED BY A MECHANICAL TAMPING DEVICE/ROLLER.
6. WORKING HOURS SHALL BE BETWEEN THE HOURS OF 7:30AM TO 4:30PM, M-F, EXCEPT HOLIDAYS. NO WORK WHICH WILL CAUSE LOUD OR DISRUPTIVE NOISE PRIOR TO 8AM. "NO PARKING" SIGNS SHALL READ FROM 8AM-4PM. WORKING HOURS MAY BE MODIFIED AS REQUIRED OR APPROVED BY THE ENGINEER.
7. ALL DAMAGED PAVEMENT MARKERS, STRIPING, TRAFFIC LOOPS, LEGENDS, SIGNS, ETC. SHALL BE REPLACED WITHIN 72 HOURS AFTER THE PAVING OPERATION. TEMPORARY STRIPING SHALL BE PROVIDED IMMEDIATELY AFTER THE PAVING OPERATION.
8. TRAFFIC CONTROL SHALL BE ACCORDING TO THE CALIFORNIA M.U.T.C.D. OR W.A.T.C.H. MANUAL AND SHALL BE REQUIRED FOR ALL WORK. TEMPORARY PEDESTRIAN ACCESS SHALL BE PROVIDED WITH A SMOOTH, LEVEL SURFACE AND DELINEATED PATHWAYS.
9. CONTRACTOR SHALL NOTIFY PUBLIC WORKS 72 HOURS PRIOR TO LANE CLOSURES ON ARTERIALS AND MAJOR COLLECTORS, 48 HOURS ON ALL OTHER STREETS.
10. ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
11. INSPECTION REQUESTS SHALL BE MADE 24 HOURS PRIOR TO PAVING. PAVING SHALL BE INSTALLED ONLY AFTER APPROVAL OF BASE BY THE INSPECTOR.

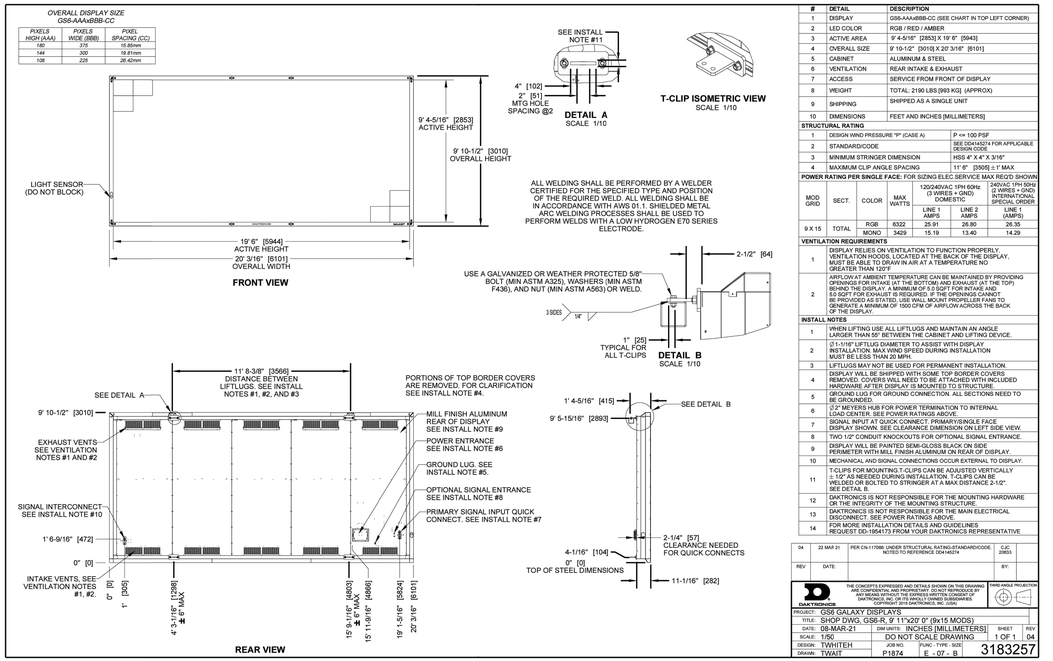
CITY OF GARDENA — PUBLIC WORKS DEPARTMENT — ENGINEERING DIVISION

TITLE: TRENCH/PAVEMENT REPAIR

APP. BY: _____ CITY ENGINEER _____ DATE

DESIGNED BY	JC	2/17/16	DWG. NO.
DRAWN BY	RS	2/17/16	ST - 20
CHECKED BY	JF	2/17/16	

CITY STANDARD DETAIL (ST-20) | 3



#	DETAIL	DESCRIPTION
1	DISPLAY	GS6-AAAxBBB-CC (SEE CHART IN TOP LEFT CORNER)
2	LED COLOR	RGB / RED / AMBER
3	ACTIVE AREA	9' 4-5/16" [2853] X 19' 0" [5943]
4	OVERALL SIZE	9' 10-1/2" [3010] X 20' 3/16" [6101]
5	CABINET	ALUMINUM & STEEL
6	VENTILATION	REAR INTAKE & EXHAUST
7	ACCESS	SERVICE FROM FRONT OF DISPLAY
8	WEIGHT	TOTAL: 2190 LBS [993 KG] (APPROX)
9	SHIPPING	SHIPPED AS A SINGLE UNIT
10	DIMENSIONS	FEET AND INCHES [MILLIMETERS]

STRUCTURAL RATING		
1	DESIGN WIND PRESSURE "P" (CASE A)	P <= 100 PSF
2	STANDARD/CODE	SEE GS6 MOD'S FOR APPLICABLE DESIGN CODE
3	MINIMUM STRINGER DIMENSION	HSS 4" X 4" X 3/16"
4	MAXIMUM CLIP ANGLE SPACING	11' 6" [3505] ± 1" MAX

POWER RATING PER SINGLE FACE: FOR SIZING ELEC SERVICE MAX REQ'D SHOWN

MOD GRID	SECT.	COLOR	MAX WATTS	120/240VAC 1PH 60Hz (2 WIRES + GND) DOME-STC LINE 1 AMPS	LINE 2 AMPS	240VAC 1PH 50Hz (2 WIRES + GND) INTERNATIONAL SPECIAL ORDER LINE 1 (AMPS)
9 X 15	TOTAL	RGB	6322	25.91	26.80	26.35
		MONO	3429	15.19	13.40	14.29

VENTILATION REQUIREMENTS	
1	DISPLAY RELIES ON VENTILATION TO FUNCTION PROPERLY. VENTILATION FOODS, LOCATED AT THE BACK OF THE DISPLAY, MUST BE ABLE TO DRAW IN AIR AT A TEMPERATURE NO GREATER THAN 120°F
2	AIRFLOW AT AMBIENT TEMPERATURE CAN BE MAINTAINED BY PROVIDING OPENINGS FOR INTAKE (AT THE BOTTOM) AND EXHAUST (AT THE TOP) BEHIND THE DISPLAY. A MINIMUM OF 6.0 SQFT FOR INTAKE AND 5.0 SQFT FOR EXHAUST IS REQUIRED. IF THE OPENINGS CANNOT BE PROVIDED AS STATED, USE WALL MOUNT PROPELLER FANS TO CREATE A MINIMUM OF 1500 CFM OF AIRFLOW ACROSS THE BACK OF THE DISPLAY.

INSTALL NOTES	
1	WHEN LIFTING USE ALL LIFTLUGS AND MAINTAIN AN ANGLE LARGER THAN 55° BETWEEN THE CABINET AND LIFTING DEVICE.
2	Ø 1-1/16" LIFTLUG DIAMETER TO ASSIST WITH DISPLAY INSTALLATION. MAX WIND SPEED DURING INSTALLATION MUST BE LESS THAN 20 MPH.
3	LIFTLUGS MAY NOT BE USED FOR PERMANENT INSTALLATION.
4	DISPLAY WILL BE SHIPPED WITH SOME TOP BORDER COVERS REMOVED. COVERS WILL NEED TO BE ATTACHED WITH INCLUDED HARDWARE AFTER DISPLAY IS MOUNTED TO STRUCTURE.
5	GROUND LUG FOR GROUND CONNECTION. ALL SECTIONS NEED TO BE GROUNDED.
6	2.0" RECEIVERS HUB FOR POWER TERMINATION TO INTERNAL LOAD CENTER. SEE POWER RATINGS ABOVE.
7	SIGNAL INPUT AT QUICK CONNECT. PRIMARY/SINGLE FACE DISPLAY SHOWN. SEE CLEARANCE DIMENSION ON LEFT SIDE VIEW.
8	TWO 1/2" CONDUIT KNOCKOUTS FOR OPTIONAL SIGNAL ENTRANCE.
9	DISPLAY WILL BE PAINTED SEMI-GLOSS BLACK ON SIDE PERIMETER WITH MILL FINISH ALUMINUM ON REAR OF DISPLAY.
10	MECHANICAL AND SIGNAL CONNECTIONS OCCUR EXTERNAL TO DISPLAY.
11	T-CLIPS FOR MOUNTING. T-CLIPS CAN BE ADJUSTED VERTICALLY ± 1/2" AS NEEDED DURING INSTALLATION. T-CLIPS CAN BE WELDED OR BOLTED TO STRINGER AT A MAX DISTANCE 2-1/2". SEE DETAIL B.
12	DAKTRONICS IS NOT RESPONSIBLE FOR THE MOUNTING HARDWARE OR THE INTEGRITY OF THE MOUNTING STRUCTURE.
13	DAKTRONICS IS NOT RESPONSIBLE FOR THE MAIN ELECTRICAL DISCONNECT. SEE POWER RATINGS ABOVE.
14	FOR MORE INSTALLATION DETAILS AND GUIDELINES REQUEST GS6-1954 FROM YOUR DAKTRONICS REPRESENTATIVE.

REV.	DATE	PER CN-1170966 UNDER STRUCTURAL RATING-STANDARD/CODE NOTED TO REFERENCE DO#145274	CJC 20653	BY:
04	22 MAR 21			

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PROJECT:	GS6 GALAXY DISPLAYS
TITLE:	SHOP DWG, GS6-R, 9' 11"x20' 0" (9x15 MODS)
DATE:	08-MAR-21
SCALE:	1/50
DESIGN:	TWNITEH
DRAWN:	TWAIT

DIM UNITS: INCHES [MILLIMETERS] — SHEET: 1 OF 1 — REV: 04
DO NOT SCALE DRAWING
JOB NO. P1874 — [CUST] - [TYPE] - [SIZE] E - 07 - B
3183257

(FOR REFERENCE ONLY) SIGNAGE ELEVATIONS & DETAILS | 2

GENERAL NOTES

1. THE CONTRACTOR SHALL INSPECT AND VERIFY ALL FIELD CONDITIONS PRIOR TO START OF WORK.
2. COORDINATE TRENCH ROUTING AND EQUIPMENT LOCATIONS WITH EXISTING CONDITIONS AND NEW WORK.
3. ALL SITE BRANCH CIRCUIT WIRING SHALL BE #10 AWG. OR LARGER.
4. CONTRACTOR SHALL VERIFY EXISTING BUILDING FOOTING PRIOR TO INSTALLATION OF STUB-UP CONDUITS FOR NEW WALL MOUNTED JUNCTION BOX TO AVOID ANY INTERFERENCE.
5. CONTRACTOR SHALL UTILIZE 'GPR' GROUND PENETRATING RADAR TO SURVEY AND TRACE ALL EXISTING UNDERGROUND UTILITY LINES IN AREAS WHERE NEW TRENCHING IS PLANNED. CONTRACTOR TO SUBMIT "GPR" REPORT TO PROJECT MANAGER FOR REVIEWING PRIOR TO TRENCHING.
6. ALL SITE UNDERGROUND CONDUIT TO BE 1" MIN. UNLESS OTHERWISE NOTED.
7. SUPPORT CONDUIT(S) EVERY 10'-0" AND WITHIN 3'-0" OF ANY JUNCTION BOX OR TERMINATION.
8. CONTRACTOR IS TO PROVIDE GROUNDING RING AND GROUND RODS FOR SIGN PER MANUFACTURER REQUIREMENTS AND RECOMMENDATIONS. CONTRACTOR IS TO INCLUDE ALL COSTS ASSOCIATED WITH GROUNDING REQUIREMENTS IN BID.
9. ALL OUTDOOR EQUIPMENT SHALL BE RATED NEMA 3R.

REVIEWED FOR CODE COMPLIANCE
USING THE FOLLOWING CODES:
- ☐ 2022 CALIFORNIA RESIDENTIAL CODE
- ☑ 2022 CALIFORNIA BUILDING CODE
- ☑ 2022 CALIFORNIA ELECTRICAL CODE
- ☑ 2022 CALIFORNIA PLUMBING CODE
- ☑ 2022 CALIFORNIA MECHANICAL CODE
- ☑ 2022 CALIFORNIA ENERGY CODE
- ☑ 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
- ☐ 2022 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
- ☐ 2022 CALIFORNIA FIRE CODE
- ☐ OTHER: _____

COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.

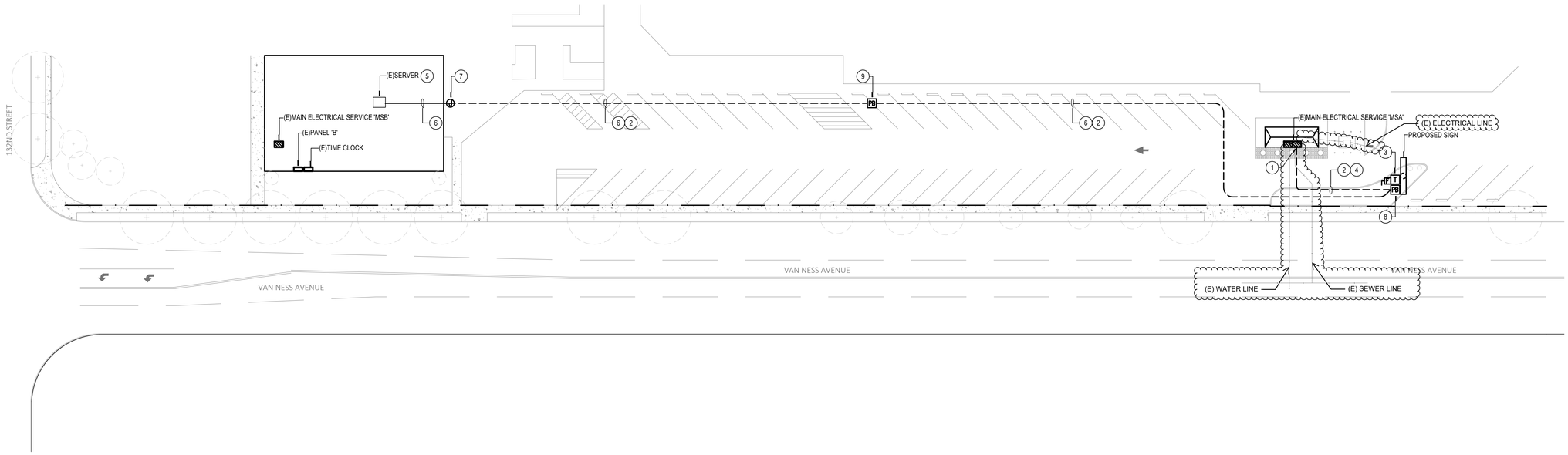
BY: bpr.rserrato DATE: Oct 17, 2024

CITY OF GARDENA

Rev 1 only

CONSTRUCTION NOTES

1. CONTRACTOR IS TO EGRESS EXISTING ELECTRICAL ROOM AND INSTALL CONDUITS AS SHOWN. PATCH AND REPAIR ANY DAMAGED CONCRETE OR ASPHALT, PER CITY STANDARD REQUIREMENT ST-20.
2. CUT, PATCH AND REPAIR ASPHALT PER CITY STANDARD REQUIREMENT ST-20.
3. COORDINATE EXACT LOCATION OF TRANSFORMER AND DISCONNECT IN FIELD PRIOR TO START OF WORK. TRANSFORMER IS TO BE INSTALLED IN LEAST OBSTRUCTED LOCATION.
4. REFER. TO SINGLE LINE FOR FEEDER INFORMATION.
5. APPROX. SERVER LOCATION WITHIN BUILDING. CONTRACTOR IS TO VERIFY EXACT LOCATION IN FIELD AND PROVIDE DATA CABLING AS REQUIRED.
6. PROVIDE: (1)1-1/2"C FOR DATA. PROVIDE MULTIMODE OM5 TYPE FIBER PER CITY REQUIREMENTS.
7. CONTRACTOR IS TO CORE THRU EXISTING WALL AND INSTALL CONDUIT AND JUNCTION BOX AS SHOWN. PATCH AND REPAIR WALL TO MATCH ORIGINAL CONDITION. CONDUIT LOCATION AND ATTACHMENT IN/ON BUILDING SHALL BE APPROVED BY CITY PRIOR TO INSTALLATION.
8. PROVIDE (2)PULLBOXES AT THIS LOCATION. ONE FOR POWER AND ONE FOR COMMUNICATIONS. DUCT SEAL CONDUITS.
9. PROVIDE TRAFFIC RATED PULLBOX. CONDUITS THAT ENTER/EXIT PULLBOX SHALL BE AT 45DEG. BENDS, DUCT SEAL CONDUITS.



DIGALERT — DIAL TOLL FREE 1-800-422-4133 — AT LEAST TWO DAYS BEFORE YOU DIG — UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

ELECTRICAL SITE PLAN | SCALE: 1"=30'-0" | 1

PREPARED BY: REGISTERED PROFESSIONAL ENGINEER — BRANDON PERRATT — 22839 — SIGNED:09/10/2024 — ELECTRICAL — STATE OF CALIFORNIA

DESIGN WEST ENGINEERING
MECHANICAL • ELECTRICAL • ENERGY CONSULTANTS
412 E. Vanderbilt Way
San Bernardino, CA 92408
Phone: 909.890.3700
Fax: 909.890.3770
Email: cads@designwesteng.com

NO.	REVISIONS	DATE	BY	APP.
1	REVISION 1	10-02-24		

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION
ELECTRICAL SITE PLAN
PROJECT: ROWLEY PARK ELECTRONIC SIGN
LIMITS:
E1.1

F. B. REF.			
DESIGNED BY	ES		
DRAWN BY	SM		
CHECKED BY	ES, SM		

APPROVED BY: Allan Rigg DATE: 10/17/24
P.W. DIRECTOR/CITY ENGINEER R. C. E. NO.
SHT. 13 OF 15 — DWG. NO. S-2615

FILE PATH: R:_PROJECT\2023\23-176 GLENDALE ROWLEY PARK SIGN UPGRADE_CAD\23-176 E-SITEPLN.DWG, PLOT TIME: 9/10/2024 2:15:26 PM

FILE PATH: R:_PROJECT\2023\23-176 GLENDALE ROWLEY PARK SIGN UPGRADE_CAD\23-176 E-SITEPLN.DWG
PLOT TIME: 9/10/2024 2:15:26 PM

ELECTRICAL SPECIFICATIONS

PART 1 GENERAL

1.01 SCOPE OF WORK

A. WORK COVERED BY THIS SECTION CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, SUPPLIES, AND MATERIALS, UNLESS OTHERWISE SPECIFIED, AND IN PERFORMING ALL OPERATIONS NECESSARY FOR THE INSTALLATION OF A COMPLETE AND OPERABLE ELECTRICAL SYSTEM AS REQUIRED BY THESE SPECIFICATIONS AND AS INDICATED ON THE DRAWINGS.

B. THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS IN A MANNER TO BE FULLY COGNIZANT OF ALL WORK REQUIRED UNDER THIS SECTION.

C. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS UNLESS OTHERWISE ARRANGED AND SCHEDULE ALL REQUIRED INSPECTIONS FOR THE EXECUTION OF THE WORK UNDER THIS CONTRACT.

1.02 GENERAL REQUIREMENTS

A. WORK DONE UNDER THIS SECTION SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE, NEC (NATIONAL ELECTRICAL CODE), THE STATE OF CALIFORNIA TITLE 24, THE STATE BUILDING STANDARDS, (OSHA) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, AND TO ANY APPLICABLE LOCAL JURISDICTIONAL REQUIREMENTS. IN CASE OF CONFLICT BETWEEN REQUIREMENT, THE MOST RESTRICTIVE SHALL APPLY.

1.03 ELECTRICAL CONTRACTOR'S RESPONSIBILITY

A. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES.

B. BEFORE SUBMITTING THE BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FULLY ACQUAINT HIMSELF WITH EXISTING CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL THE EQUIPMENT AND ASSOCIATED WIRING IN SUCH A MANNER AS TO CONFORM WITH THE EXISTING STRUCTURE OF THE BUILDING, AVOID OBSTRUCTIONS, AND MEET APPLICABLE CODE REQUIREMENTS.

C. THE INTENT OF THESE DRAWINGS IS TO DESCRIBE A COMPLETE AND OPERABLE SYSTEM. WHERE EXISTING CONDITIONS DIFFER FROM DRAWINGS, ADJUSTMENT SHALL BE MADE AND ALLOWANCES INCLUDED FOR ALL NECESSARY EQUIPMENT TO COMPLETE ALL PARTS OF THE DRAWINGS AND SPECIFICATIONS. BRING ANY QUESTIONS TO THE ARCHITECT OR ENGINEER'S ATTENTION PRIOR TO BIDDING.

D. WHEREVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT, DEVICES, CIRCUIT BREAKERS, ETC., ARISES ON THE DRAWING AND/OR SPECIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITION NOTED ON DRAWINGS AND/OR IN SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ENGINEER.

1.04 WORK NOT INCLUDED

A. CERTAIN LABOR, MATERIALS, OR EQUIPMENT MAY BE FURNISHED UNDER OTHER CONTRACTS BY THE OWNER. WHEN SUCH IS THE CASE, THE EXTENT, SOURCE, AND DESCRIPTION OF THESE ITEMS WILL BE INDICATED ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS. UNLESS OTHERWISE NOTED, ALL LABOR, MATERIALS AND EQUIPMENT FOR THE COMPLETE INSTALLATION OF THE ELECTRICAL WORK SHALL BE PROVIDED UNDER THIS SECTION OF THESE SPECIFICATIONS.

1.05 SPECIAL REQUIREMENTS

A. THE DRAWINGS INDICATE GENERAL ARRANGEMENT OF CIRCUITS, OUTLETS, LOCATIONS OF MOTOR CONTROLLERS WITH DISCONNECTS, PANELBOARDS, CONDUIT ROUTING, AND OTHER WORK. INFORMATION SHOWN ON THE DRAWINGS IS ESSENTIALLY DIAGRAMMATIC; HOWEVER, RECIRCUITING OR RELOCATING ELECTRICAL EQUIPMENT WILL NOT BE PERMITTED WITHOUT SPECIFIC WRITTEN APPROVAL OF THE ELECTRICAL ENGINEER.

1.06 SUBMITTALS

A. AFTER AWARD OF THE CONTRACT AND BEFORE ANY MATERIALS ARE DELIVERED TO THE JOB SITE, A COMPLETE LIST OF ALL MATERIALS PROPOSED TO BE FURNISHED AND INSTALLED UNDER THIS SECTION MUST BE PROVIDED.

B. SUBMIT TO THE ELECTRICAL ENGINEER FOR APPROVAL ONE PRINT AND ONE REPRODUCIBLE OF ALL LIGHTING FIXTURES, SWITCHGEAR, PANELBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, CONDUIT, CONDUCTORS, PULLBOXES, AND MOTOR STARTERS. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S PRINTED INFORMATION FOR EACH OF THESE ITEMS IDENTIFIED ON THE DRAWINGS. THE INFORMATION SHALL INCLUDE, AS MINIMUM, OVERALL DIMENSIONS, WEIGHT, PHASE, VOLTAGE RATINGS, WIRING DIAGRAMS, AND NAMEPLATE DATA.

1.07 STANDARDS AND MATERIALS

A. ALL MATERIALS SHALL CONFORM WITH THE CURRENT APPLICABLE INDUSTRY STANDARDS, NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION), ANSI (AMERICAN NATIONAL STANDARDS INSTITUTE), IPCEA (INSULATED POWER CABLE ENGINEERS ASSOCIATION), IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS), NATIONAL ELECTRICAL SAFETY CODE.

B. UNLESS OTHERWISE INDICATED, ALL MATERIALS SHALL BE UNDERWRITERS LABORATORIES LISTED AND LABELED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

C. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE ELECTRICAL MECHANICAL EFFICIENCY. DEFECTIVE AND DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL APPROVAL AND ACCEPTANCE. THE DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, STATUTES, OR ORDINANCES IN EFFECT. APPLICABLE CODES, STANDARDS, ORDINANCES, AND STATUTES TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS OR SPECIFICATIONS.

1.08 DELIVERY AND STORAGE OF MATERIALS

A. THE CONTRACTOR SHALL INVESTIGATE EACH SPACE IN THE BUILDING THROUGH WHICH EQUIPMENT MUST PASS TO REACH ITS FINAL LOCATIONS. IF NECESSARY, THE MANUFACTURER SHALL BE REQUIRED TO SHIP HIS MATERIAL IN SECTIONS, SIZED TO PERMIT PASSING THROUGH SUCH RESTRICTED AREAS IN THE BUILDING.

B. THE CONTRACTOR SHALL RETAIN IN HIS POSSESSION AND SHALL BE RESPONSIBLE FOR ALL PORTABLE AND DETACHABLE PARTS OF PORTIONS OF INSTALLATIONS SUCH AS FUSES, KEY LOCKS, ADAPTERS, BLOCKING CLIPS, AND INSERTS UNTIL FINAL COMPLETION OF WORK. THESE PARTS SHALL BE DELIVERED TO THE OWNER UPON COMPLETION OF THE WORK.

PART 2 PRODUCTS

2.01 EQUIPMENT AND MATERIALS

A. ALL MATERIALS FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, FREE FROM DEFECTS, AND SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE OF THE WORK. SHOULD ANY TROUBLE DEVELOP DURING THEIR PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS AND LABOR TO CORRECT THE TROUBLE WITHOUT ANY COST TO THE OWNER. ANY DEFECTIVE MATERIAL OR INFERIOR WORKMANSHIP NOTED AT THE TIME OF INSTALLATION SHALL BE CORRECTED IMMEDIATELY TO THE SATISFACTION OF THE OWNER.

B. ALL MAJOR EQUIPMENT COMPONENTS SHALL HAVE THE MANUFACTURER'S NAME, ADDRESS, MODEL NUMBER, AND SERIAL NUMBER PERMANENTLY ATTACHED IN A CONSPICUOUS MANNER.

2.02 CONDUIT

A. PROVIDE RACEWAYS AS INDICATED ON THE DRAWINGS AND AS HEREIN SPECIFIED. CONDUITS SHALL BE RIGID STEEL "GRC" (THICK WALL) GALVANIZED; ELECTRICAL METALLIC TUBING "EMT" (THIN WALL); FLEXIBLE STEEL, GALVANIZED; LIQUID-TIGHT, FLEXIBLE STEEL CONDUIT WITH GROUND BOND; ALUMINUM CONDUIT; OR SCHEDULE 40 PVC.

B. ALL EMPTY CONDUITS (CO) SHALL BE SCHEDULE 40 PVC UNLESS OTHERWISE INDICATED ON THE DRAWING.

C. WHERE CONDUIT CROSSES AN EXPANSION JOINT, PROVIDE APPROVED FITTINGS WHICH ALLOW DEFLECTIONS EQUIVALENT TO TWICE THE MOVEMENT ALLOWED BY THE DESIGN.

2.03 CONDUCTORS

A. PROVIDE A COMPLETE SYSTEM OF CONDUCTORS IN RACEWAY SYSTEMS AS SHOWN ON THE DRAWINGS AND THEN HEREIN SPECIFIED.

B. LIGHTING AND POWER CONDUCTORS SHALL BE COPPER, 600 VOLT, TYPE THWN/THHN, NO. 12 MINIMUM UNLESS OTHERWISE NOTED.

C. CONTROL CONDUCTORS SHALL BE 600V, TYPE THWN/THHN, NO.14 MINIMUM SIZE UNLESS OTHERWISE NOTED.

2.04 FITTINGS

A. CONNECTOR, COUPLING, LOCKNUT, BUSHINGS AND CAPS USED WITH RIGID CONDUIT SHALL BE STEEL, THREADED AND GALVANIZED. BUSHINGS SHALL BE INSULATED.

B. EMT FITTINGS, CONNECTORS AND COUPLINGS SHALL BE STEEL, ZINC, OR CADMIUM PLATED, COMPRESSION TYPE, WITH INSULATED THROAT.

C. FLEXIBLE STEEL CONDUIT CONNECTORS SHALL BE TWIST-IN-TYPE WITH INSULATED THROAT. THE FINISH SHALL BE ZINC OR CADMIUM PLATING.

D. EMT CONDUIT FITTINGS SHALL BE THE COMPRESSION TYPE; SET SCREW FITTINGS SHALL NOT BE USED.

2.05 JUNCTION AND PULL BOXES

A. FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE, MACHINE SCREW SECURED COVERS.

B. FOR EXTERIOR WET LOCATIONS, BOXES SHALL BE NEMA 3R OR NEMA 4 RATED, GASKET MACHINE SCREW SECURED COVERS.

C. INGROUND PULLBOXES SHALL BE CONCRETE ELECTRICAL PULL BOX WITH LID APPROPRIATE FOR INSTALLATION LOCATION. SIZE PULLBOX PER NEC REQUIREMENTS.

D. ALL BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUITS ENTERING THE BOX AND EQUIPPED WITH PLASTER RINGS WHERE REQUIRED.

2.09 DEVICE PLATES

1. PROVIDE PLATES FOR ALL SWITCHES, RECEPTACLES, JUNCTION BOXES, TELEPHONE AND OTHER OUTLETS.

2. PROVIDE ENGRAVED OR ETCHED PLATES FOR ALL LOCK SWITCHES, PILOT SWITCHES, SWITCHES FROM WHICH EQUIPMENT OR CIRCUIT CONTROLLED CANNOT BE READILY SEEN, THREE OR MORE SWITCHES UNDER A COMMON PLATE AND FOR SWITCHES AS INDICATED.

3. STAINLESS STEEL PLATES SHALL BE AMERICAN IRON AND STEEL INSTITUTE (AISI) TYPE 302, WITH BEVELED EDGES, 0.040" THICK WITH SATIN SMOOTH FINISH. "SMOOTHIE," HUBBELL #97071 SERIES.

4. PLASTIC COVER PLATE SHALL BE HIGH IMPACT THERMOPLASTIC, HIGH STRENGTH, SCRATCH-RESISTANT, SMOOTH AND SELF-EXTINGUISHING, HUBBELL "PI" SERIES OR PASS & SEYMOUR RP SERIES.

5. WHERE OUTLETS ARE INDICATED TO BE WEATHERPROOF, PROVIDE AN AISI TYPE 302 STAINLESS WITH DOUBLE HINGED COVERS, PASS & SEYMOUR #WPD-8.

6. GALVANIZED STEEL PLATES SHALL BE SQUARE OR RECTANGULAR AND HOT DIPPED GALVANIZED OR SHERARDIZED, BEVELED EDGES AND 0.040" THICK. GALVANIZED STEEL PLATES SHALL BE USED IN UTILITY AREA.

7. PROVIDE PLATES EQUIPPED WITH CLOSE FITTING OPENINGS FOR THE EXACT DEVICE TO BE USED. PROVIDE PLATES FOR TELEPHONE OUTLETS EQUIPPED WITH BUSHED OPENINGS.

8. REFER TO SECTION 3.08 FOR LABELING OF PLATES.

9. COVER PLATES ON PRESSED STEEL OUTLET BOXES IN FURRED AREAS, ATTICS, ETC., OR EXPOSED IN MECHANICAL EQUIPMENT ROOMS SHALL BE OF THE SAME MATERIAL AS THE OUTLET BOX.

10. COVER PLATES IN LOCATIONS CONCEALED FROM PUBLIC VIEW SHALL HAVE THE CIRCUIT NUMBERS AND SOURCE FEED POINT HAND LABELED WITH MARKING BLACK PEN (PERMANENT MARKER). SEE SECTION 3.08 FOR LABELING.

11. PROVIDE PLASTIC COVER PLATES UNLESS NOTED OTHERWISE

2.13 CIRCUIT AND MOTOR DISCONNECTS

A. DISCONNECT (SAFETY) SWITCHES SHALL BE FUSED, HEAVY DUTY TYPE SWITCHES MEETING NEMA SPECIFICATIONS. SWITCHES SHALL BE PROVIDED WITH REJECTION TYPE FUSE BLOCKS. PROVIDE SWITCHES WITH THE NUMBER OF POLES, THE VOLTAGE, CURRENT AND HORSEPOWER RATINGS AS REQUIRED. PROVIDE EXTERNALLY OPERABLE QUICK-MAKE, QUICK-BREAK TYPE MECHANISM WITH COVER INTERLOCK AND PADLOCKABLE IN EITHER THE OPEN OR CLOSED POSITION.

B. SWITCHES SHALL BE NEMA 3R (RAIN TIGHT ENCLOSURE) WHERE INDICATED TO BE OUTDOORS WEATHERPROOF.

C. PROVIDE NAMEPLATE INDICATING EQUIPMENT SERVED. ALL GENERAL SNAP SWITCHES OPERATING MOTOR LOADS SHALL BE HORSEPOWER RATED OR BE RATED AT LEAST 125% OF THE FULL LOAD CURRENT.

2.14 TRANSFORMERS

A. UNLESS OTHERWISE SPECIFIED, DRY TYPE TRANSFORMERS SHALL BE IN ACCORDANCE WITH NEMA, NEC AND AS SHOWN ON THE DRAWINGS. TRANSFORMERS SHALL BE UL LISTED OR LABELED.

B. DRY TYPE TRANSFORMERS SHALL HAVE THE FOLLOWING FEATURES:

1. SELF-COOLED BY NATURAL CONVECTION, ISOLATING WINDINGS, INDOOR, DRY TYPE. AUTOTRANSFORMERS WILL NOT BE ACCEPTED.

2. RATING SHALL BE AS SHOWN ON THE DRAWINGS.

3. TRANSFORMERS SHALL HAVE COPPER WINDINGS.

4. RATINGS SHOWN ON THE DRAWINGS ARE FOR CONTINUOUS-DUTY WITHOUT THE USE OF COOLING FANS.

5. TRANSFORMERS 30 KVA AND LARGER: UL RATED 220 DEGREES C SYSTEM HAVING AN AVERAGE MAXIMUM RISE BY RESISTANCE OF 150 DEGREES C IN A MAXIMUM AMBIENT OF 40 DEGREES C.

6. TRANSFORMERS BELOW 30 KVA: SAME AS FOR 30 KVA AND LARGER OR UL RATED 185 DEGREES C SYSTEM HAVING AN AVERAGE MAXIMUM RISE BY RESISTANCE OF 115 DEGREES C IN A MAXIMUM AMBIENT OF 40 DEGREES C.

7. PRIMARY AND SECONDARY TAP CONNECTIONS SHALL BE BRAZED OR PRESSURE TYPE.

8. CERTIFIED SOUND LEVELS DETERMINED IN ACCORDANCE WITH NEMA, SHALL NOT EXCEED THE FOLLOWING:

TRANSFORMER RATING SOUND LEVEL RATING
0 - 9 KVA 40 DB
10 - 50 KVA 45 DB
51 - 150 KVA 50 DB
151 - 300 KVA 55 DB
301 - 500 KVA 60 DB

9. SINGLE PHASE TRANSFORMERS RATED 15 KVA THROUGH 25 KVA SHALL HAVE TWO, 5 PERCENT FULL CAPACITY TAPS BELOW NORMAL RATED PRIMARY VOLTAGE. ALL TRANSFORMERS RATED 30 KVA AND LARGER SHALL HAVE TWO, 2-1/2 PERCENT FULL CAPACITY TAPS ABOVE, AND FOUR, 2-1/2 PERCENT FULL CAPACITY TAPS BELOW NORMAL RATED PRIMARY VOLTAGE.

10. CORE ASSEMBLIES SHALL BE GROUNDED TO THEIR ENCLOSURES BY ADEQUATE FLEXIBLE GROUND STRAPS.

11. OUTDOOR ENCLOSURES SHALL BE NEMA 3R.

12. TEMPERATURE RISE AT HOTTEST SPOT SHALL CONFORM TO NEMA STANDARDS, AND SHALL NOT BAKE AND PEEL OFF THE ENCLOSURE PAINT AFTER THE TRANSFORMER HAS BEEN PLACED IN SERVICE.

13. VENTILATION OPENINGS SHALL PREVENT ACCIDENTAL ACCESS TO LIVE COMPONENTS.

C. TRANSFORMERS SHALL BE DESIGNED TO WITHSTAND THE OVERHEATING EFFECTS CAUSED BY HARMONICS RESULTING FROM NON-LINEAR (NON-SINUSOIDAL) LOADS SUCH AS OFFICE EQUIPMENT USING SOLID-STATE SWITCHING POWER SUPPLIES (I.E. COMPUTERS, LASER PRINTERS AND COPIERS)

D. COPPER COILS - NEUTRALS SHALL CARRY AT LEAST 200% OF NORMAL PHASE CURRENT.

E. MINIMUM EFFICIENCY DESIGNED TO SUPPLY CIRCUITS WITH A HARMONIC PROFILE EQUAL TO OR LESS THAN A K FACTOR OF 13 WITHOUT EXCEEDING SPECIFIED TEMPERATURE RISE. TRANSFORMERS WITH K FACTOR OF 13 SHALL BE PROVIDED, IF K FACTOR IS NOT SHOWN ON CONTRACT DRAWINGS. TABLE BELOW APPLIES TO K-13 TRANSFORMERS ONLY.

F. INSTALLATION OF TRANSFORMERS SHALL BE IN ACCORDANCE WITH THE NEC, AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER AND AS SHOWN ON THE DRAWINGS.

G. INSTALL THE TRANSFORMERS WITH ADEQUATE CLEARANCE AT A MINIMUM OF 6 INCHES FROM WALL AND ADJACENT EQUIPMENT FOR AIR CIRCULATION TO REMOVE THE HEAT PRODUCED BY TRANSFORMERS.

H. TRANSFORMERS SHALL MEET THE DOE ENERGY EFFICIENCY REQUIREMENTS LISTED IN 10 CFR 431.

2.15 ELECTRICAL CONNECTIONS

A. UNLESS OTHERWISE NOTED, ALL WIRING FOR MOTORS, STARTERS, CONTROLS, AND EQUIPMENT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. WHERE MOTORS FOR MECHANICAL EQUIPMENT ARE FURNISHED BY OTHER DIVISIONS, WIRING SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR, EXCEPT WHERE WIRED INTEGRALLY WITH THE EQUIPMENT.

2.16 SUPPORTING DEVICES

A. ALL EQUIPMENT CONDUITS SHALL BE SUPPORTED, ANCHORED AND BRACED IN ACCORDANCE WITH THE MOST STRINGENT CODES AND REQUIREMENTS. COMPLY WITH CHAPTER 23 OF THE LATEST CBC (CALIFORNIA BUILDING CODE).

PART 3 EXECUTION

3.01 WORKMANSHIP AND COMPLETION OF INSTALLATION

A. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE ELECTRICAL AND MECHANICAL EFFICIENCY. DEFECTIVE AND DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL INTERPRETATIONS INCLUDED. ANY DEFICIENCY PERTAINING TO EITHER WORKMANSHIP OR MATERIALS FOUND BY THE INSPECTOR SHALL BE CORRECTED WITHOUT ADDITIONAL COST TO THE OWNER.

B. THE CONTRACTOR SHALL MAINTAIN ON JOB SITE A SET OF THE WORKING DRAWINGS WHICH SHALL BE UPDATED DAILY IN DETAIL FOR WORK ACCOMPLISHED. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE GENERAL CONTRACTOR AND ALL CHANGES AS NOTED ON THE RECORD SET OF PRINTS SHALL BE INCORPORATED THEREON WITH RED INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER.

C. ALL EQUIPMENT AND MATERIAL CONNECTED WITH THIS PROJECT SHALL BE INSTALLED COMPLETE, THOROUGHLY CLEANED, AND ALL RESIDUE REMOVED FROM INSIDE SURFACES. EXTERIOR SURFACES OF ALL MATERIAL AND EQUIPMENT SHALL BE CLEANED AND DELIVERED IN A PERFECT, UNBLEMISHED CONDITION.

D. UPON COMPLETION OF THE INSTALLATION AND AS A CONDITION OF ITS ACCEPTANCE FURNISH ONE COPY OF THE FINAL INSPECTION CERTIFICATE TO THE OWNER.

3.02 PREPARATION COORDINATION.

A. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH ALL OTHER CONTRACTORS FURNISHING LABOR, MATERIALS AND WORK, SO THAT THE WORK AS WHOLE SHALL BE EXECUTED AND COMPLETED WITHOUT CONFLICT OR DELAY.

B. EXAMINE THE DRAWINGS AND SPECIFICATIONS AND DETERMINE THE WORK TO BE PERFORMED BY THE ELECTRICAL, MECHANICAL AND OTHER TRADES. PROVIDE THE TYPE AND AMOUNT OF ELECTRICAL MATERIALS AND EQUIPMENT NECESSARY TO PLACE THIS WORK IN PROPER OPERATION, COMPLETELY WIRED TESTED AND READY FOR USE. THIS SHALL INCLUDE ALL CONDUIT, WIRE, DISCONNECTS, RELAYS, AND OTHER DEVICES FOR THE REQUIRED OPERATION SEQUENCE OF ALL ELECTRICAL, MECHANICAL, AND OTHER SYSTEMS OR EQUIPMENT.

C. PERFORM ALL WORK IN A MANNER WHICH WILL NOT CAUSE UNNECESSARY INCONVENIENCE OR DANGER TO THE OCCUPANTS, NOR INTERFERE WITH THE ACTIVITIES IN THE BUILDING.

D. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE EACH POWER INTERRUPTION WITH OWNER, AND SHALL PROVIDE AT LEAST TWO WEEKS NOTICE OF PROPOSED INTERRUPTION AND WORK TO BE ACCOMPLISHED.

3.03 TRENCHING AND BACKFILLING

A. PERFORM ALL SUCH TRENCHING AND BACKFILLING IN ACCORDANCE WITH DRAWING DETAILS.

3.04 CORE CUTTING, DRILLING, AND PATCHING

A. NO HOLES WILL BE ALLOWED IN ANY STRUCTURAL MEMBERS WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER AND GENERAL CONTRACTOR.

3.05 INSTALLATION

A. WORKMANSHIP IS TO BE NEAT, BY EXPERIENCED WORKMEN WITH ADEQUATE SUPERVISION, AND IN LINE WITH NORMAL INDUSTRY WORK PRACTICES.

B. MAINTAIN WORKING CLEARANCE AROUND ELECTRICAL EQUIPMENT, IN ACCORDANCE WITH CODE REQUIREMENTS AS A MINIMUM.

C. ALL CONDUIT TO BE RUN CONCEALED UNLESS OTHERWISE NOTED. ALL CONDUITS SHALL BE ROUTED OVERHEAD IN CEILING SPACES. NO CONDUITS SHALL BE PERMITTED IN CONCRETE SLAB, MASONRY WALLS UNLESS SPECIFICALLY SO INDICATED. CONDUIT SHALL BE RUN SO AS NOT TO INTERFERE WITH OTHER PIPING FIXTURES OR EQUIPMENT.

D. WHERE ALLOWED, EXPOSED CONDUIT RUNS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO WALLS, STRUCTURAL MEMBERS, OR INTERSECTION OF VERTICAL PLANES AND CEILINGS.

E. INSTALL PRODUCTS ACCORDING TO MANUFACTURERS INSTRUCTIONS.

F. ALL ROTATING ELECTRICAL EQUIPMENT SHALL BE SUPPLIED WITH A FLEXIBLE, LIQUID-TIGHT CONDUIT WITH APPROPRIATE SLACK AND SHALL NOT EXCEED THIRTY-SIX (36) INCHES.

G. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT.

H. INSTALL ACCESSORIES FURNISHED WITH EACH LUMINAIRE.

I. PROVIDE CONCRETE BASES FOR LIGHTING POLES..

J. INSTALL POLES AND PLUMB.
1. PROVIDE SHIMS TO ADJUST PLUMB.
2. GROUT AROUND EACH BASE.

K. INSTALL LAMPS IN EACH LUMINAIRE.

L. BOND LUMINAIRES METAL ACCESSORIES AND METAL POLES TO BRANCH CIRCUIT EQUIPMENT GROUNDING CONDUCTORS.

3.06 GROUNDING

A. ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AS INDICATED ON DRAWINGS AND AS REQUIRED BY THE LATEST EDITION OF APPLICABLE CODES.

B. FURNISH AND INSTALL ALL GROUNDING CONDUCTORS, CONDUIT AND CLAMPS. THE SIZE OF THE GROUNDING CONDUCTORS SHALL BE NOT LESS THAN THAT SPECIFIED IN THE NEC.

C. BUILDING GROUNDING SYSTEM RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS.

D. EACH BRANCH CIRCUIT SHALL BE EQUIPPED WITH CODE SIZE GREEN GROUND, EQUIPMENT WIRE (PER NEC 250-95) (NOT INDICATED ON DRAWINGS) WITHIN THE SAME CONDUIT FOR ALL CIRCUITS OF PANELBOARDS.

3.07 BRANCH CIRCUITS

A. NO MORE THAN THREE BRANCH CIRCUITS PERMITTED IN ONE CONDUIT UNLESS INDICATED OTHERWISE

3.08 IDENTIFICATION

A. THE FOLLOWING ITEMS SHALL BE EQUIPPED WITH NAMEPLATES:

1. ALL MOTORS, MOTOR STARTERS, CONTROL PANELS, MOTORS CONTROL REMOTE STATIONS.

2. ALL DISCONNECT AND SAFETY SWITCHES, MAIN DISTRIBUTION PANEL FEEDER OVERCURRENT DEVICES AND SPARES, CIRCUIT EQUIPMENT IN SEPARATE ENCLOSURES.

3. SPECIAL ELECTRICAL SYSTEMS SHALL BE PROPERLY IDENTIFIED AT JUNCTION AND PULL BOXES

4. ALL BRANCH CIRCUIT PANEL BOARDS SHALL HAVE IDENTIFYING ENGRAVED PLASTIC NAMEPLATES. ALSO, PROVIDE A TYPED DIRECTORY CARD FOR EACH BRANCH CIRCUIT PANELBOARD. THE CARD IS TO BE PLACED ON THE INTERIOR SIDE OF THE PANELBOARD DOOR BEHIND A CLEAR PLASTIC SHIELD. THE CARD SHALL IDENTIFY EACH CIRCUIT BY NUMBER, LOAD, AND LOCATION.

5. IN GENERAL, EQUIPMENT SHALL BE IDENTIFIED AS DESIGNATED ON THE ELECTRICAL DRAWINGS. NAMEPLATES FOR PANELBOARDS AND SWITCHBOARDS SHALL INCLUDE THE PANEL DESIGNATION, VOLTAGE AND PHASE OF THE SUPPLY. THE NAME OF THE MACHINE SHALL BE THE SAME AS THE NAME USED ON ALL MOTOR STARTERS, DISCONNECTS, AND P.B STATION NAMEPLATES FOR THAT MACHINE.

B. NAMEPLATES SHALL BE FABRICATED AS FOLLOWS:

1. NAMEPLATE MATERIALS SHALL CONSIST OF 3-PLY, 1/16" LAMINATED PLASTIC WITH WHITE CORE FOR LETTERING AND BLACK BACKGROUND.

2. CAPITAL LETTERS SHALL BE USED.

3. NAMEPLATES SHALL BE FASTENED WITH CADMIUM-PLATED SELF-TAPPING NO. 6 SCREWS 1/4" LONG

4. THE MINIMUM SIZE OF ALL NAME PLATES AND LETTERING SHALL BE 3/4" HIGH BY 2" LONG WITH 1/4" LETTERS.

3.09 PROTECTION

A. USE ALL MEANS NECESSARY TO PROTECT THE WORK AND MATERIALS FROM LOSS DURING AND AFTER INSTALLATION, AND PROVIDE ADEQUATE AND PROPER STORAGE FACILITIES DURING THE PROGRESS OF THE WORK. PROVIDE FOR THE SAFETY AND GOOD CONDITION OF ALL WORK UNTIL FINAL ACCEPTANCE OF THE WORK BY THE OWNER. REPLACE ALL DAMAGE OR DEFECTIVE WORK, MATERIAL, AND EQUIPMENT AT NO EXPENSE TO THE OWNER BEFORE REQUESTING FINAL ACCEPTANCE.

3.10 CLEANING OF EQUIPMENT, MATERIAL, AND PREMISES

A. SITE SHALL BE LEFT BROOM CLEAN AFTER COMPLETION OF WORK EACH DAY. UPON COMPLETION OF THE WORK, LEAVE THE PREMISES CLEAN OF ALL DIRT AND DEBRIS.

B. ALL EQUIPMENT AND MATERIAL CONNECTED WITH THIS PROJECT SHALL BE INSTALLED COMPLETE, THOROUGHLY CLEANED, AND ALL RESIDUE REMOVED FROM INSIDE SURFACES. EXTERIOR SURFACES OF ALL MATERIAL AND EQUIPMENT SHALL BE CLEANED AND DELIVERED IN A PERFECT, UNBLEMISHED CONDITION.

3.11 HANDLING OF WIRE AND CABLE

A. HANDLE WIRE AND CABLE SO AS TO AVOID DAMAGE TO CONDUCTORS AND TAKE EVERY PRECAUTION TO AVOID SHARP BENDING OR SCORING OF THE CABLE. CABLE SHALL NOT BE LAID NOR DRAGGED UPON THE GROUND.

B. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND REPLACE AT HIS OWN EXPENSE ALL WIRE AND CABLE DAMAGED DUE TO IMPROPER HANDLING, AND SHALL PAY FOR THE NEW WIRE OR CABLE.

3.12 TESTING AND INSPECTIONS

A. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND ARRANGE ALL REQUIRED INSPECTIONS FOR THE EXECUTION OF THE WORK UNDER THIS CONTRACT.

B. THE CONTRACTOR SHALL REPLACE ALL DAMAGED OR DEFECTIVE EQUIPMENT OR WORK.

C. ALL CIRCUITS SHALL BE TESTED FOR CONTINUITY AND CIRCUIT INTEGRITY BY THE CONTRACTOR. ADJUSTMENTS SHALL BE MADE FOR CIRCUITS NOT COMPLYING WITH TESTING CRITERIA.

D. THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND PERFORM ANY ADDITIONAL TESTS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL ALSO CORRECT ALL FAILURES AND REPLACE ANY DAMAGED PORTIONS OF THE WORK RESULTING FROM THOSE TESTS. THE COST OF THE FOREGOING ITEMS SHALL BE PAID BY THE CONTRACTOR.

E. THE CONTRACTOR SHALL FURNISH THE OWNER CERTIFICATES OF INSPECTION AND APPROVAL BY THE ELECTRICAL INSPECTION AUTHORITY ON ALL WORK COMPETED AS REQUIRED.

F. TITLE 24 REQUIRES THE COMPLETION OF ALL APPLICABLE CERTIFICATES OF INSTALLATION AND CERTIFICATES OF ACCEPTANCE FOR LIGHTING SYSTEMS. THIS SHALL INCLUDE INDOOR AND OUTDOOR LIGHTING SYSTEMS.

G. CONTRACT DRAWINGS AND SPECIFICATIONS, GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS, ELECTRICAL PROVISIONS AND DIVISION-1 SPECIFICATION SECTIONS APPLY TO WORK OF THIS SECTION.

H. COMPLETE ALL TITLE 24 REQUIRED CERTIFICATE(S) OF INSTALLATION (NRCI) AND CERTIFICATE(S) OF ACCEPTANCE (NRCA) TO BE COMPLETED PER THE CONTRACT DOCUMENTS.

I. RESPONSIBILITIES OF INSTALLING CONTRACTORS
A.A. GENERAL CONTRACTOR (GC)
a. ENSURE THAT ALL CONTRACTORS IDENTIFIED AS THE CONTRACTOR RESPONSIBLE FOR ACCEPTANCE TESTING AND COMPLETION OF THE TITLE 24 CERTIFICATE(S) OF ACCEPTANCE ARE CERTIFIED BY THE STATE OF CALIFORNIA OR ITS DESIGNATED BODY TO CONDUCT EACH RESPECTIVE TEST.
A.A. ELECTRICAL CONTRACTOR (EC)
a. VERIFY PROPER INSTALLATION AND PERFORMANCE OF ALL ELECTRICAL SERVICES PROVIDED.
b. COMPLETE TITLE 24 CERTIFICATE(S) OF INSTALLATION AND MANUFACTURER'S PRE-START CHECKLISTS PRIOR TO SCHEDULING STARTUP/PROGRAMMING OF LIGHTING CONTROL EQUIPMENT.
i. RETAIN CERTIFICATE(S) OF INSTALLATION IN A 3-RING BINDER IN AN ORGANIZED FASHION. BINDER IS TO REMAIN ON THE JOB SITE
ii. MAKE CERTIFICATE(S) OF INSTALLATION AVAILABLE FOR BUILDING INSPECTOR'S REVIEW.
iii. RETAIN CALIBRATION RECORDS FOR EQUIPMENT PROVIDED WITH MANUFACTURER CALIBRATED SENSORS IN THE CERTIFICATE(S) OF INSTALLATION BINDER.
iv. CORRECT LABELING OF ALL CIRCUITS WITH CONNECTED EQUIPMENT.
c. COMPLETE THE CERTIFICATE(S) OF ACCEPTANCE PER THE CONTRACT DOCUMENTS.
i. THE COMPANY INSTALLING THE LIGHTING SYSTEMS MUST BE AN AUTHORIZED LIGHTING CONTROLS ACCEPTANCE TEST EMPLOYER CERTIFIED BY A LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN CERTIFICATION PROVIDER OR INCLUDE IN THEIR BID THE COST OF RETAINING AND OVERSEEING A CONTRACTOR WHO IS AN AUTHORIZED LIGHTING CONTROLS ACCEPTANCE TEST EMPLOYER TO COMPLETE THE ACCEPTANCE TESTING.
ii. ALL REQUIRED ACCEPTANCE TESTING MUST BE COMPLETED BY A LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN EMPLOYED BY THE LIGHTING CONTROLS ACCEPTANCE TEST EMPLOYER.
iii. RETAIN CERTIFICATE(S) OF ACCEPTANCE IN A 3-RING BINDER IN AN ORGANIZED FASHION. BINDER IS TO REMAIN ON THE JOB SITE
iv. UPLOAD ALL CERTIFICATE(S) OF ACCEPTANCE TO THE CALIFORNIA TITLE 24 CERTIFICATES OF ACCEPTANCE DATABASE, IF, AT THE TIME OF PROJECT COMPLETION, THE DATABASE IS AVAILABLE TO THE PUBLIC.
d. SUCCESSFUL COMPLETION OF THE REQUIRED ACCEPTANCE TESTS IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. ANY COSTS ASSOCIATED WITH MODIFICATIONS NECESSARY TO OBTAIN COMPLIANCE AND RE-TESTING OF SYSTEMS SHALL BE INCLUDED IN THE BASE BID OF THIS PROJECT.

REVIEWED FOR CODE COMPLIANCE
USING THE FOLLOWING CODES:
☐ 2022 CALIFORNIA RESIDENTIAL CODE
☑ 2022 CALIFORNIA BUILDING CODE
☑ 2022 CALIFORNIA ELECTRICAL CODE
☑ 2022 CALIFORNIA PLUMBING CODE
☑ 2022 CALIFORNIA MECHANICAL CODE
☑ 2022 CALIFORNIA ENERGY CODE
☑ 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
☐ 2022 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
☐ 2022 CALIFORNIA FIRE CODE
☐ OTHER: ____
COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.
BY: *bpr.rserrato* DATE: *Oct 17, 2024*
CITY OF GARDENA

Rev 1 only

PREPARED BY:

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N0.	REVISIONS	DATE	BY	APP.
1	REVISION 1	10-02-24		

CITY OF GARDENA
DEPARTMENT OF PUBLIC WORKS — ENGINEERING DIVISION

ELECTRICAL SPECIFICATIONS
PROJECT : ROWLEY PARK ELECTRONIC SIGN
LIMITS:
E2.1

F. B. REF.		
DESIGNED BY	ES	
DRAWN BY	SM	
CHECKED BY	ES, SM	

APPROVED BY: *Allan Rigg* DATE: 10/17/24
P.W. DIRECTOR/CITY ENGINEER R.C.E. NO.
SHT. 14 OF 15 DWG. NO. 5-2615

FILE PATH: R:_PROJECT\2023\23-176 GLENDALE ROWLEY PARK SIGN UPGRADE_CAD\23-176 E-SPECS.DWG, PLOT TIME: 9/10/2024 2:15:36 PM

GENERAL NOTES

1. EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE NOTED OR SHOWN ON THE PLANS, WORKMANSHIP & MATERIALS SHALL CONFORM TO THE 2022 CBC

2. THE PLANS SHALL BE REVIEWED FOR DIMENSIONAL & EXISTING SITE CONFORMANCE WITH THE PLANS BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE ARCHITECT & ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES.

3. WORKING DIMENSIONS SHALL NOT BE SCALED FROM DRAWINGS.

4. ITEMS IDENTIFIED BY TRADE NAMES MAY BE SUBSTITUTED BY APPROVED EQUALS.

5. NOTES & DETAILS ON DRAWINGS SHALL PRECEDE THESE GENERAL NOTES

ENGINEERING NOTES

1. CONCRETE SLABS ON GRADE HAVE NOT BEEN DESIGNED BY THE STRUCTURAL ENGINEER.

2. THE VIBRATIONAL EFFECTS OF MECHANICAL EQUIPMENT HAVE NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER.

3. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION, BRACING SHORING, TEMPORARY SUPPORTS ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING THE ENTIRE COURSE OF CONSTRUCTION. THE ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR FIELD INSPECTION/OBSERVATION OF THE ABOVE ITEMS.

4. ALLOWABLE SOILS PRESSURE TO BE A MINIMUM OF 1500 PSF UNLESS A SOILS REPORT IS PROVIDED. SOILS IN THE BUILDING AREA & 5 FEET BEYOND SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION PER 2022 C.B.C.

FOUNDATION NOTES

GENERAL

1. SOIL BENEATH FOOTINGS AND SLABS SHALL BE COMPACTED PER 2022 C.B.C. (90%) RELATIVE COMPACTION MINIMUM.

2. IF A SOIL REPORT IS REQUIRED FOR THE PROJECT, THE SOILS ENGINEER SHALL INSPECT THE FOUNDATION PRIOR TO POURING OF CONCRETE AND SHALL VERIFY THE SOIL BEARING PRESSURE TO BE 1500 PSF MIN OR PER THE SOILS REPORT.

3. SLAB ON GRADE: 4 INCH. CONCRETE SLAB WITH #3 @ 18"O/C E.W. @ CENTER OF SLAB OVER 2 INCH. OF SAND OVER 10 MIL. VISQUEEN OVER COMPACTED SOILS U.N.O.

4. NO TRENCHES OR EXCAVATIONS FIVE FEET IN DEPTH OR GREATER INTO WHICH A PERSON SHALL BE REQUIRED TO DESCEND SHALL BE MADE WITHOUT PROPER PERMIT.

5. THE MINIMUM BOLTING FOR SILL PLATES TO FOUNDATION SHALL BE AS FOLLOWS: 5/8" DIAMETER ANCHOR BOLTS WITH 7" MIN EMBEDMENT IN CONCRETE WITH SPACING NO GREATER THAN 4 FEET O.C. NOR FURTHER THAN 12" FROM CORNERS (MIN 2 BOLTS PER PIECE). SEE THE FOUNDATION PLAN & SHEAR WALL SCHEDULE FOR FURTHER BOLTING REQUIREMENTS

6. PIPES OR DUCTS THAT EXCEED ONE THIRD THE SLAB OR CONC. WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONC. UNLESS SPECIFICALLY DETAILED. SEE MECHANICAL AND/OR ELECTRICAL DRAWINGS FOR LOCATION OF SLEEVES, ACCESSORIES, ETC.

7. PIPES MAY PASS THRU STRUCTURAL CONC. IN SLEEVES, BUT SHALL NOT BE EMBEDDED THEREIN.

8. PROVIDE 3/4" CHAMFERS AT ALL EXPOSED CORNERS

9. SEE ARCHITECTURAL PLANS FOR MOLDS, GROOVES, ORNAMENTS CLIPS OR GROUNDS REQUIRED TO BE CAST IN CONCRETE, AND FOR LOCATIONS OF FLOOR FINISHES AND SLAB DEPRESSIONS.

10. LOCATION OF POUR JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.

CONCRETE

1. UNLESS OTHERWISE NOTED ON PLANS CONCRETE SHALL BE TYPE II WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI IN 28 DAYS, WATER–CEMENT RATIO OF 0.45. CEMENT SHALL CONFORM TO A.S.T.M. CX–150 FINE & COURSE AGGREGATE SHALL CONFORM TO A.S.T.M. C33.

REINFORCING STEEL

1. REINFORCING STEEL, #3 AND #4 GRADE 40, #5 AND LARGER GRADE 60 PER A.S.T.M. A615.

2. LOW HYDROGEN WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS.

3. BARS NOTED AS "CONT "TYPICAL WALL REINFORCING AND VERTICAL COLUMN REINFORCING SHALL HAVE A MINIMUM SPLICE OF 50 BAR DIAMETERS LAP IN MASONRY OR 40 BAR DIAMETERS MINIMUM IN CONCRETE..

4. REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. OTHER SPLICES SHALL BE APPROVED BY THE STRUCURAL ENGINEER.

5. SPLICES IN ADJACENT HORIZONTAL WALL REINFORCING BARS SHALL BE STAGGERED 4 FEET UNLESS OTHER WISE NOTED.

6. PROVIDE DOWELS IN FOOTINGS AND/OR GRADE BEAMS THE SAME SIZE AND NUMBER AS VERTICAL WALL OR COLUMN REINFORCING. DOWELS SHALL HAVE A MINIMUM PROJECTION EQUAL TO STANDARD LAP SPLICE UNLESS OTHERWISE NOTED.

7. ALL REINFORCING, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN PLACE PRIOR TO PLACMENT OF CONCRETE OR GROUTING OF MASONRY.

8. PROVIDE THE FOLLOWING MINIMUM PROTECTIVE COVERING OF CONCRETE:
BELOW GRADE (UNFORMED)----------3" CLEAR
BELOW GRADE (FORMED)----------2" CLEAR
WALLS----------1" CLEAR
COLUMNS----------1.5"CLEAR
BEAMS AND GIRDERS----------1.5"CLEAR
STRUCTURAL SLAB (ABOVE GRADE)----------3/4"CLEAR

9. NUMBER 5 OR LARGER REINFORCING BARS SHALL NOT BE RE–BENT WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

GRADING NOTES

1. A GRADING PERMIT SHALL BE OBTAINED PRIOR TO ANY GRADING.

2. ALL FILL ONE FOOT & GREATER SHALL BE CERTIFIED AND TESTED AS TO RELATIVE COMPACTION PER 2022 C.B.C.

3. ALL FILL SHALL BE COMPACTED IN ACCORDANCE WITH CHAPTER 18 SECTION 1803 OF THE LATEST ADOPTED EDITION OF THE 2022 C.B.C.

4. ALL UTILITY TRENCH BACKFILLS SHALL BE IN ACCORDANCE WITH THE SOILS ENGINEERS RECOMMENDATIONS.

DRAINAGE NOTES

1. MINIMUM GRADIENTS ARE AS FOLLOWS: EARTH= 1% PAVING=.5%

2. POSITIVE DRAINAGE AWAY FROM STRUCTURES SHALL BE AS FOLLOWS: 2% MIN TO 21% MAX SWALES TO BE 3 FEET MIN AWAY FROM STRUCTURES.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO STANDARD SPECIFICATION FOR STRUCTURAL STEEL FOR BRIDGES OR BUILDINGS A.S.T.M. A709

2. WIDE FLANGE STEEL ("W" SHAPES) SHALL CONFORM TO A.S.T.M. A992

3. STEEL CHANNELS AND ANGLES SHALL CONFORM TO A.S.T.M. A36

4. STEEL PIPE COLUMNS SHALL CONFORM TO A.S.T.M. A53 GRADE B

5. STEEL TUBE SHAPED MEMBERS SHALL CONFORM TO A.S.T.M. A500 GRADE B.

6. STEEL PLATES AND BARS SHALL CONFORM TO A.S.T.M. A36 U.N.O.

7. HIGH TENSILE BOLTS WHERE INDICATED ON THE PLANS OR DETAILS SHALL BE THE FRICTION TYPE AND THERE SHALL BE NO PAINT, OIL, LACQUER OR GALVANIZING BETWEEN THE CONTACT SURFACES. HIGH TENSILE BOLTS SHALL CONFORM TO A.S.T.M. A325 OR A490.

8. ALL BOLTS FOR STEEL MEMBERS SHALL CONFORM TO A.S.T.M. A–307 UNLESS OTHERWISE NOTED.

9. FABRICATION SHALL COMPLY WITH THE LATEST A.I.S.C. SPECS.

10. WHERE FINISH IS ATTACHED TO STRUCTURAL STEEL, PROVIDE HOLES FOR 1/2"ø WELDED STUDS AT 4 FEET O.C. FOR THE ATTACHMENT OF NAILERS. SEE ARCHITECTURAL DRAWINGS FOR FINISHES.

11. BEAM CONNECTIONS SHALL COMPLY WITH "FRAMED BEAM CONNECTIONS" A.I.S.C. PART 4, TABLE 1, USING 3/4" DIA. A307 BOLTS (M.B.).

12. OPEN WEB JOISTS SHALL COMPLY WITH THE STANDARDS OF "THE STEEL JOIST INSTITUTE".

STRUCT. STEEL WELDING

1. WELDING SHALL BE DONE BY THE ELECTRIC SHIELDED ARC PROCESS AND SHALL COMPLY WITH A.W.S. SPECIFICATIONS FOR WELDING AND FABRICATION.

2. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS WHO ARE APPROVED BY THE LOCAL AUTHORITY.

3. ALL FIELD WELDS SHALL HAVE CONTINUOUS INSPECTION PER 2022 CBC (1704.3.1) UNLESS OTHERWISE NOTED.

4. ALL BUTT WELDS SHALL BE FULL PENETRATION U.N.O.

5. A CERTIFICATE OF FABRICATION FROM THE SHOP PERFORMING WELDING OR A REPORT FROM THE SPECIAL INSPECTOR MUST BE FURNISHED TO THE JOB INSPECTOR PRIOR TO FRAMING APPROVAL.

6. USE E7018 ELECTRODE W/201–# TOUGHNESS FACTOR.

DESIGN DATA

A.
DEAD LOAD= 10 PSF

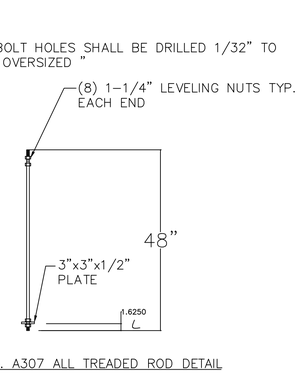
LIVE LOAD= N/A

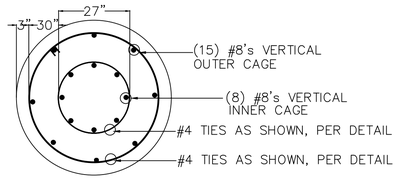
B. WIND DESIGN DATA:
a.) BASIC WIND SPEED= 110 MPH
b.) WIND IMPORTANCE FACTOR (I)= 1.0 ; RISK CATEGORY= II
c.) WIND EXPOSURE= C
d.) INTERNAL PRESSURE COEFFICIENT= 0.55
e.) WIND DESIGN LOAD= 39.0 PSF

C. EARTHQUAKE DESIGN DATA:
a.) SEISMIC IMPORTANCE FACTOR= 1.0 ; RISK CATEGORY II
b.) MAPPED SPECTRAL RESPONSE ACCELERATION, Ss= 1.838; S1= 0.648
c.) SITE CLASS= D
d.) SDECTRAK RESPONSE COEFFICIENT, SDs= 1.470; SD1=NULL
e.) SEISMIC DESIGN CATEGORY= D
f.) BASIC "SFRS"= CANTILEVERED STEEL COLUMN
g.) DESIGN BASE SHEAR= 1.470 Wd
h.) SEISMIC RESPONSE COEFFICIENT,CS=0.980 (CANTILEVERED STEEL COLUMN)
i.) RESPONSE MODIFICATION FACTOR= 1.5 (CANTILEVERED STEEL COLUMN)
j.) ANALYSIS PROCEDURE USED= EQUIVALENT LATERAL FORCE PROCEDURE
k.) REDUNDANCY FACTOR USED = 1.0 (p=1.3)

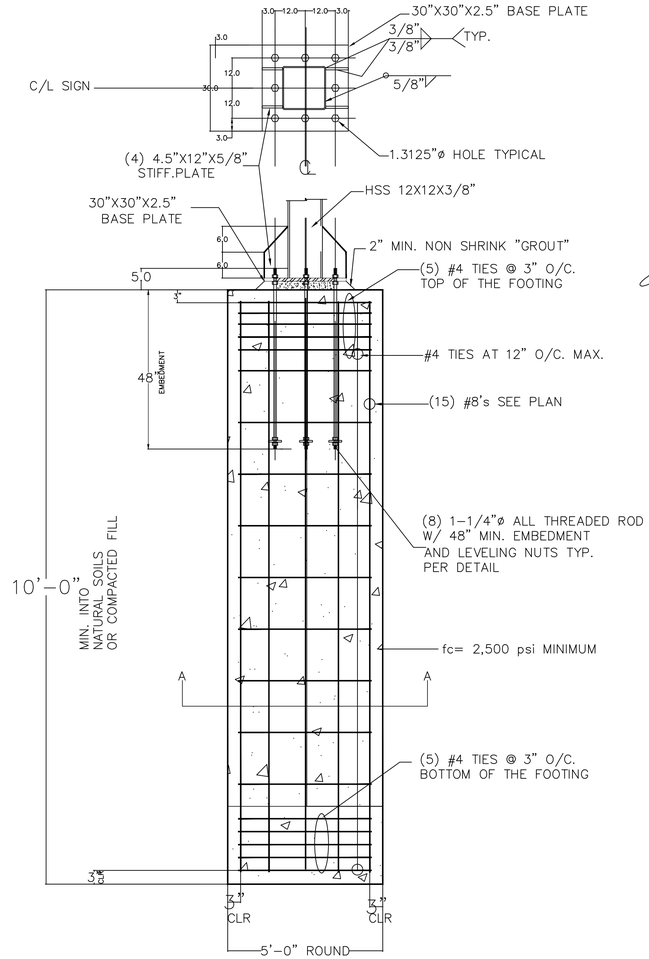
D. ALLOWABLE SOIL BEARING PRESSURE= 1,500 PSF

REVIEWED FOR CODE COMPLIANCE
USING THE FOLLOWING CODES:
☐ 2022 CALIFORNIA RESIDENTIAL CODE
☑ 2022 CALIFORNIA BUILDING CODE
☑ 2022 CALIFORNIA ELECTRICAL CODE
☑ 2022 CALIFORNIA PLUMBING CODE
☑ 2022 CALIFORNIA MECHANICAL CODE
☑ 2022 CALIFORNIA ENERGY CODE
☑ 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
☐ 2022 CALIFORNIA BUILDING CODE - STRUCTURAL DESIGN PROVISIONS ONLY
☐ 2022 CALIFORNIA FIRE CODE
☐ OTHER: _____
COMPLETION OF THIS REVIEW DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE OR LOCAL REGULATIONS.
BY: bpr:serrato DATE: Oct 17, 2024
CITY OF GARDENA
Rev 1 only

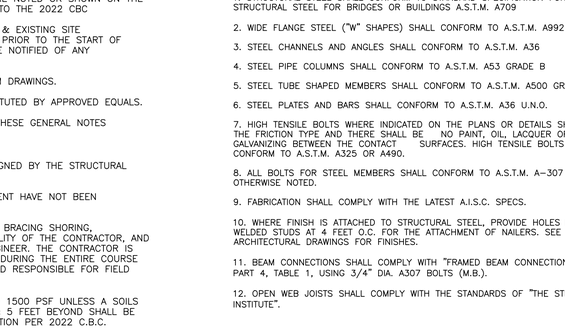




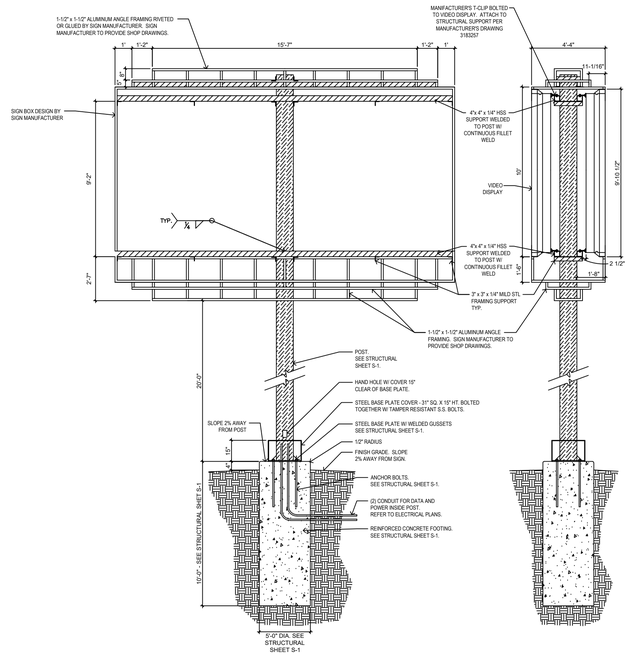
A–A



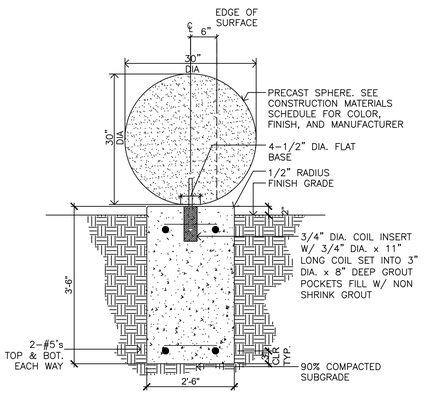
BASE DETAIL



(TYP.) PIPE TRENCH A



SIGN FRAMING SECTION- REFERENCE



BOLLARD SECTION

SHUCRI (CHUCK) YAGHI
STRUCTURAL ENGINEERING
112 E. CHAPMAN AVE SUITE D
ORANGE , CA 92866 PH: 714-997-9120

REGISTERED PROFESSIONAL ENGINEER SHUCRI I. YAGHI No. C 43205 Exp.3/31/26 CIVIL STATE OF CALIFORNIA

PROJECT

ROWLEY PARK- ELECTRONIC SIGN
13220 VAN NESS AVE.
GARDENA, CA. 90249

	Revision Date	By:
1	07/29/24	AY

Date: 03/14/24
Scale: AS NOTED
Drawn by: A. YAGHI
Job:
File:

S-1

15 SHEET NO. 15

DEPARTMENT of PUBLIC WORKS
1717 WEST 162nd STREET / GARDENA, CALIFORNIA 90247-3731 / WWW.CITYOFGARDENA.ORG / PHONE (310) 217-9568

NOTICE OF EXEMPTION

TO: ☐ Office of Planning & Research
1400 Tenth Street
Sacramento, CA 95814

☐ County Clerk / Registrar Recorder
ATTN: Environmental Filings Clerk
12400 East Imperial Highway, Room 1101
Norwalk, CA 90650

Project Title: Park Electronic Signage, Rowley Park, JN 529

Project Location (Specific): 13220 S. Van Ness Ave., Gardena, Ca. 90249

Project Location (City): Gardena **Location (County):** Los Angeles County

Description of nature, purpose and beneficiaries of project: Install LED Sign

Name of public agency approving project: City of Gardena

Name of person or agency carrying out project: City of Gardena

Exempt Status: (Check One)

☐ Ministerial: (P.R.C. Sec. 21080[b][1]; Guidelines Sec. 15268)
☐ Declared Emergency: (P.R.C. Sec. 21080[b][3]; Guidelines Sec. 15269[a])
☐ Emergency Project (P.R.C. Sec. 21080[b][4]; Guidelines Sec. 15269[b][c])
x Categorical Exemption: Section 15301 Class 1, Existing Facilities
☐Other: Guidelines Sec. 15061):

Reason why project is exempt: This project consists of minor alteration of existing public facilities and involves negligible or no expansion of use beyond that previously existing.

Contact person: Jun De Castro **Telephone:** 310-217-9642

If filed by applicant:
1. Attach certified document of exempting finding.
2. Has a notice of exemption been filed by the public agency approving the project? ☐ Yes ☐ No

Date received for filing:

1/30/25

CLINT OSORIO Date
Environmental Quality Officer

NOTE: Exempt from Dept. of Fish & Game Wildlife Fee in accordance with de minimis impact finding (735.5[c])

TASHA CERDA, Mayor / RODNEY G. TANAKA, Mayor Pro Tem
MARK E. HENDERSON, Councilmember / PAULETTE C. FRANCIS, Councilmember / WANDA LOVE, Councilmember
MINA SEMENZA, City Clerk / GUY MATO, City Treasurer / CLINT OSORIO, City Manager / CARMEN VASQUEZ, City Attorney

David Volz Design
Landscape Architects and Park Planners
Designing landscapes that create community...
Leveraging location-based technologies to create a smarter world

~~September 9, 2024~~
February 12, 2025

Jun De Castro
Associate Engineer
City of Gardena
1717 West 162nd Street
Gardena, CA 90247

RE: PROPOSAL TO PROVIDE CONSTRUCTION PERIOD SERVICES FOR ROWLEY PARK SIGN READER BOARD

Dear Mr. De Castro,

With this important project ready to start construction, our design team is ready to assist the City of Gardena with construction period services. We are projecting a limited amount of hours and will bill time and materials. We are assuming up to five site visits/meetings to review construction progress for demolition, layout and construction of the new readerboard sign. The DVD will include a letter of substantial completion and a final punch walk.

Task 1 - Construction Assistance

1.01 Attend pre-construction meeting
1.02 Respond to project Requests for Information (RFI's)
1.03 Review submittals
1.04 Participate in construction progress meetings and prepare meeting summary notes (five meetings)

Task 2 - 3D Rendering in Lumion

2.01 From the model we will select an appropriate eye-level view that includes the area within the limit of work. The Lumion model would be a full 3D model and a more realistic and accurate representation.

FEE PROPOSAL

Scope of Services	SLA $175	SLD $155	LD $140	AD $110	Total Hrs	Fee
Task 1 - Construction Period Services	34	10	10	10	64	$ 10,000
Task 2- 3D Rendering - Lumion Photoshop						$ 2,000
					TOTAL PROPOSED FEE	$ 12,000

Thank you for including David Volz Design on the team for this project. We are looking forward to continue working with you and the City of Gardena. Should you have any questions, please do not hesitate to call.

Very truly yours,
DAVID VOLZ DESIGN

Eric Sterling, R.L.A. # 5463

Park Electronic Signage, JN 529

1" = 300 ft	Project Location Map Rowley Park	02/13/2025	

This map may represents a visual display of related geographic information. Data provided here on is not guarantee of actual field conditions. To be sure of complete accuracy, please contact the responsible staff for most up-to-date information.

CITY OF GARDENA

CONTRACT DOCUMENTS AND SPECIFICATIONS

FOR

PARK ELECTRONIC SIGNAGE
ROWLEY PARK

JN 529

OCTOBER 2024

CITY OF GARDENA

CONTRACT DOCUMENTS AND SPECIFICATIONS

FOR

PARK ELECTRONIC SIGNAGE
ROWLEY PARK

JN 529

Plans & Specifications prepared by:

Memoranda:

Plans and specifications are available at Planwell Administrator, 562.436.9761 or https://www.e-arc.com/location/costa-mesa/ (Go to Planrooms/Order From Planwell/Public Planroom and select City of Gardena under pulldown menu)

Bid Results: https://www.cityofgardena.org/public-contracts/

City of Gardena Public Works Engineering Division: 310.217.9568

CITY OF GARDENA
NOTICE INVITING BIDS
for
PARK ELECTRONIC SIGNAGE
ROWLEY PARK
JN 529

Plans and Specifications are available through ARC Document Solutions. Please be advised that there is an additional charge for delivery. Upon payment of the purchase price, they become the property of the purchaser and may not be returned for refund.

You may access the plans through the following website under Public Planroom:

https://www.e-arc.com/location/costa-mesa/
(Scroll down to "Planrooms"/"Order From PlanWell"/"Public Planroom" and select City of Gardena under the "in all company" pulldown menu)
or
https://customer.e-arc.com/arcEOC/Secures/PWELL_PrivateList.aspx?PrjType=pub

For help accessing and ordering, please contact a Planwell Administrator at 562.436.9761.

Notice is hereby given that the City of Gardena will receive sealed bids at the office of the City Clerk, City Hall, 1700 W. 162nd Street, Gardena, California, until **3pm** on **Jan. 30, 2025** and shortly thereafter on this same day, they will be publicly opened and read in the City Clerk's Office in-person and via ZOOM.

The information to join the bid opening via ZOOM is the following:

Topic: Bid Opening
Time: 3:00 PM on Jan. 30, 2025 (Shortly thereafter the deadline)
Join ZOOM Meeting

https://us02web.zoom.us/j/86867077570
Meeting ID: 868 6707 7570
Dial by phone: +1 669 444 9171 US

Should you have any questions or concern in delivering a bid or joining the ZOOM Meeting, please contact City Clerk's office at (310) 217-9565 or via email at cityclerk@cityofgardena.org.

All bids must be in writing, must be sealed, and must be plainly marked on the outside: **"BID ON PROJECT NO. JN 529.** Any bid received after the hour stated above for any reason whatsoever, will not be considered for any purpose but will be returned unopened to the bidder.

Bids are required for the entire work as described below:
Install two sided LED electronic sign with footing, electrical service, controls, curbs, trees, shrubs etc. per plan.

ENGINEER'S ESTIMATE: $450,000

The time of completion of contract shall be **[30] working days (construction)** as defined in the latest Standard Specifications for Public Works ("Greenbook"). Does not include submittal, review and order period. Liquidated Damages, as defined in Section 6-9, shall be **[$1,000] per each consecutive calendar day**.

Each bidder must submit a proposal to the City, c/o City Clerk in accordance with the Plans and Specifications. Said proposal is to be accompanied by a cash deposit, a certified or cashier's check, or a bidder's bond, made payable to the City of Gardena, in an amount not less than 10 percent of the total bid submitted.

The envelope enclosing the proposal shall be sealed and addressed to the City of Gardena c/o City Clerk, and delivered or mailed to the City at 1700 W. 162nd Street, Gardena, California 90247-3778. The envelope shall be plainly marked in the upper left-hand corner as follows:

ATTENTION: CITY, c/o CITY CLERK
(Bidder's Name and Address) _____

(Number and title of this project) _____

The successful bidder will be required to furnish a faithful performance bond in the amount of 100 percent of the contract price, and a payment bond in the amount of 100 percent of the contract price, both in a form satisfactory to the City Attorney.

The contractor shall have an active **Class "C45" or "A"** license from the Contractor's State License Board at the time of submitting bid.

Pursuant to Public Contract Code Section 22300, the Contractor may, at Contractor's sole cost and expense, substitute securities equivalent to any monies withheld by the City to insured performance under the contract unless applicable federal regulations or policies do not allow such substitution. Such security shall be deposited with the City, or a state or federally chartered bank as escrow agent, who shall pay such monies to the Contractor upon satisfactory completion of the Contract. The Contractor shall be the beneficial owner of any security substituted for monies withheld and shall receive any accrued interest thereon. Securities eligible for investment shall include those listed in Government Code Section 16430 or bank or savings and loan certificates of deposit. No such substitution shall be accepted until the escrow agreement, letter of credit, form of security and any other document related to said substitution is reviewed and found acceptable by the City Attorney.

The City reserves the right to reject any or all bids and to waive any informality or irregularity in any bid received and to be the sole judge of the merits of the respective bids received. The award, if made, will be made to the lowest responsive responsible bidder.

Bidders are advised that this Project is a public work for purposes of the California Labor Code, which requires payment of prevailing wages. Accordingly, the bidder awarded the Contract and all subcontractors shall be required to pay not less than the prevailing rate of per diem wages, as determined by the Director of the California Department of Industrial Relations, and otherwise comply with the provisions of Section 1770 et seq. of the California Labor Code, California Code of Regulations, Title 8, Section 16000 et seq., and any other applicable laws, rules and regulations adopted with respect thereto ("California Prevailing Wage Laws").

Attention is directed to the provisions of Sections 1777.5 and 1777.6 of the Labor Code concerning the employment of apprentices by Contractor or any Subcontractor under it. Contractor and any Subcontractor under if shall comply with the requirements of said sections in the employment of apprentices.

The Contractor is prohibited from performing work on this project with a subcontractor who is ineligible to perform work on the project pursuant to Section 1777.1 or 1777.7 of the Labor Code.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. All contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner (aka Division of Labor Standards Enforcement) in a format prescribed by the Labor Commissioner no less than monthly.

As of **January 1, 2016**, the requirement to furnish electronic certified payroll records to the Labor Commissioner will apply to all public works projects, whether new or ongoing. City may require a copy of the electronic certified payroll records submitted to the DIR at anytime.

Exceptions: The Labor Commissioner may (but is not required to) excuse contractors and subcontractors from furnishing electronic certified payroll records to the Labor Commissioner on a project that is under the jurisdiction of one of the four legacy DIR-approved labor compliance programs (Caltrans, City of Los Angeles, Los Angeles Unified School District, and County of Sacramento) or that is covered by a qualifying project labor agreement.

These requirements will apply to all public works projects that are subject to the prevailing wage requirements of the Labor Code without regard to funding source.

The State General Prevailing Wage Determination is as established by the California Department of Industrial Relations (available at http://www.dir.ca.gov/DLSR/PWD/index.htm).

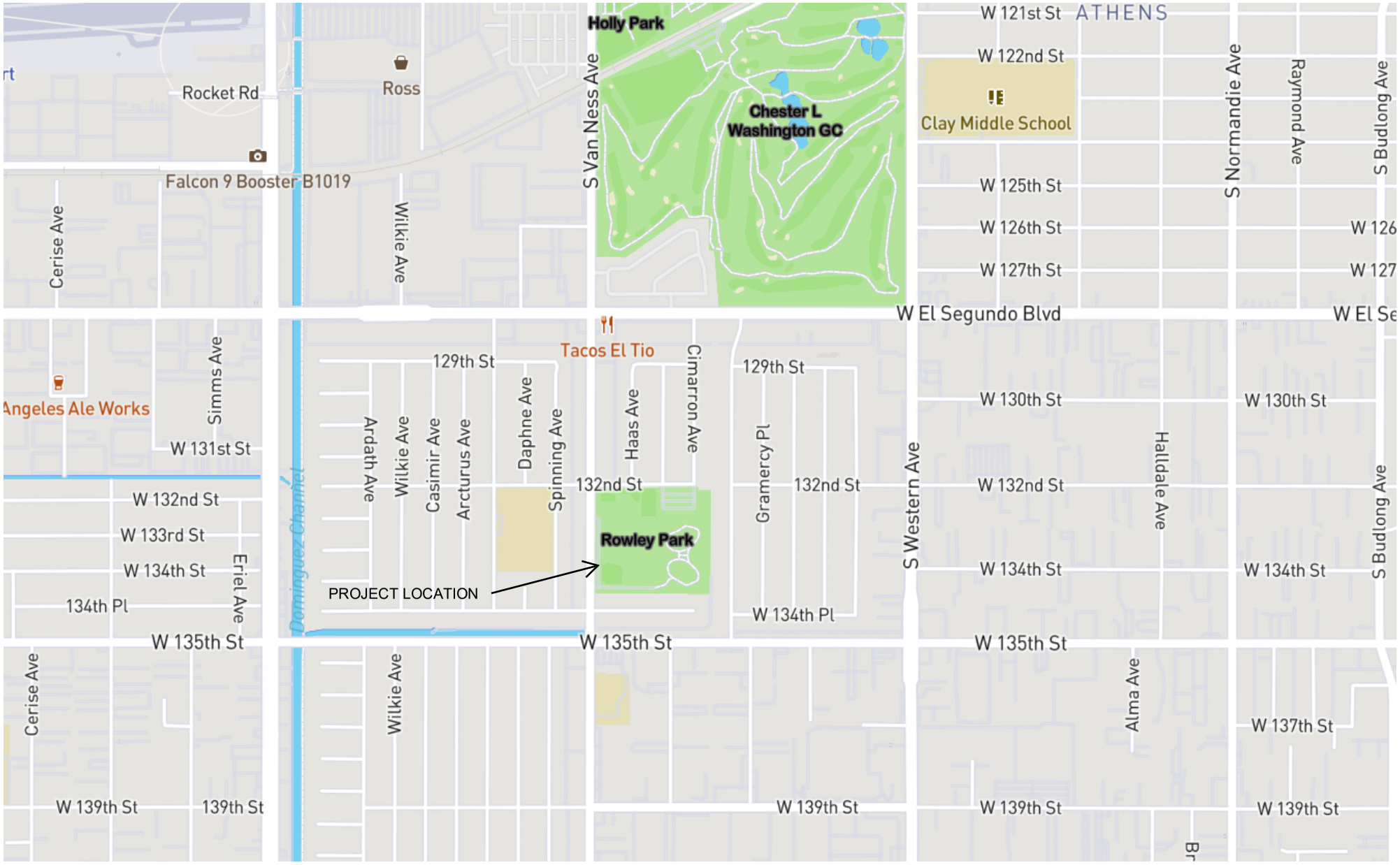
Skilled and Trained Workforce: This project is subject to Skilled and Trained Workforce Requirements per Sections 2600 through 2603 of the Public Contract Code.

Award of Contract: The following are conditions to the award of the contract:

I. Each contractor and subcontractor listed on the bid must be registered with the Department of Industrial Relations pursuant to Labor Code Section 1725.5. subject to the limited exceptions set forth in Labor Code Section 1771.1(a) (regarding the submission of a bid as authorized by Business & Professions Code Section 7029.1 or Public Contract Code Section 10164 or 20103.5 provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract was awarded): and
II. No contractor or subcontractor may be awarded this contract unless the contractor and each subcontractor listed on the bid is registered with the Department of Industrial Relations pursuant to Section 17265.5.

Any questions regarding this bid package may be referred to Jun De Castro, Public Works Engineering Division at 310.217.9642

PARK ELECTRONIC SIGNAGE - ROWLEY PARK- JN529



1" = 1121 ft	PROJECT LOCATION MAP	09/09/2024	

This map may represents a visual display of related geographic information. Data provided here on is not guarantee of actual field conditions. To be sure of complete accuracy, please contact the responsible staff for most up-to-date information.

T A B L E O F C O N T E N T S

ROWLEY PARK ELECTRONIC SIGN

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INSTRUCTIONS TO BIDDERS

FORM OF PROPOSAL

The Proposal shall be fully executed and submitted on the forms in the project specifications and shall be enclosed in a sealed envelope marked and addressed as directed in the Notice Inviting Bids.

PRPOSAL / BID DOCUMENTS

All Proposals shall include the following executed documents to be submitted with each bid:

Bidding Schedule

Acknowledgement of Addenda Received

Bidder's Declaration

Non-Collusion Affidavit

Declaration of Eligibility of Contract

Bid Bond

Designation of Subcontractors

Construction Project Reference

Certificate of Non-Discrimination by Contractors

Certification of Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – Primary Covered Transitions

DELIVERY OF PROPOSAL

The Proposal shall be delivered by the time and to the place stipulated in the Notice Inviting Bids. It is the bidder's sole responsibility to see that its Proposal is received as stipulated. Any Proposal received after the scheduled closing time for receipt of proposals will be returned to the bidder unopened.

WITHDRAWAL OF PROPOSAL

The Proposal may be withdrawn by the bidder by means of a written request, signed by the bidder or its properly authorized representative. Such written request must be delivered to the place stipulated in the Notice Inviting Bids for receipt of proposals prior to the scheduled closing time for receipt of proposals. No Proposal may be withdrawn after the hour fixed for opening bids.

MODIFICATIONS AND ALTERNATIVE PROPOSALS

Unauthorized conditions, limitations, or provisions attached to the Proposal will render it informal and may be grounds for its rejection as non-responsive. The completed Proposal forms shall be without interlineations, alterations, or erasures. Alternative proposals will not be considered unless specifically requested. Oral, telegraphic, or telephonic proposals or modifications will not be considered.

DISCREPANCIES IN PROPOSALS

In the event there is more than one bid item in a Bidding Schedule, the bidder shall furnish a price for all bid items in the Schedule, and failure to do so will render the Proposal informal and may be grounds for its rejection as non-responsive. The bidder shall state in words and figures the unit prices or the specific sums as the case may be, for which it proposes to supply the labor, materials, supplies, or machinery, and completely perform the Contract. The total amount of each item bid and the total amount of the bid shall be stated in words and figures.

In case of any discrepancy between the words and the figures, the words shall prevail. If the unit price and the total amount named by a bidder for any items are not in agreement, the unit price alone will be considered as representing the bidder's intention and the total will be corrected to conform thereto.

PROPOSAL GUARANTEE – BIDDER'S SECURITY

Each bidder shall submit with his Proposal cash, an unconditional certified or cashier's check, or a bidder's bond, in the sum of the percentage of the bid stated in the Notice Inviting Bids, payable to the City as a guarantee that the bidder will, if its Proposal is accepted, execute the Contract and furnish a satisfactory Faithful Performance Bond, a satisfactory Payment Bond and insurance certificates as specified herein.

If a bidder to whom an award is made, fails or refuses to sign the Contract or furnish the required bonds and certificates, all within the time stated in Section 2-1.5 of the Special Provisions herein, the funds represented by said cash, check or bidder's bond shall be forfeited and become and remain the property of the City; the amount thereof being agreed to by the bidder and the surety as a bid bond forfeiture due to the City because of the delay in the execution of the Contract and in the performance of work thereunder, resulting from such failure or refusal, except that if the City awards the contract to the next lowest responsive responsible bidder, only that portion of the bidder's security equal to the difference between the two bids will be forfeited.

A Bid Bond must be obtained from a corporate surety authorized to do business as such in the State of California as an "admitted surety insurer" and shall be on the form furnished by the City or one substantially in conformance with it. Certified or cashier's checks must be drawn on a solvent state or nationally chartered bank or branch thereof in the State of California. The liability of the City in connection with the checks shall be limited to the return of the checks (without interest) as provided in Section 2-1.6 of the Special Provisions bound herein.

DISQUALIFICATION OF BIDDERS

A person, firm, or corporation shall NOT be allowed to make or file, or to be interested in, more than one bid, except an alternative bid when specifically requested; provided, however, a person, firm, or corporation who has submitted a sub-proposal to a bidder submitting a Proposal, or who has quoted prices on materials to such bidders, is not thereby disqualified from submitting a sub-proposal or from quoting prices to other bidders submitting proposals, or from submitting a Proposal as a prime contractor. Similarly, failure to comply with the registration requirements of Labor Code Section 1725.5, as further described in the Notice Inviting Bids, will disqualify a bidder.

ADDITIONAL REQUIREMENTS

The bidder's attention is directed to the Special Provisions and Technical Provisions bound herein for additional requirements of the Proposal and Contract Documents.

CONTRACT DOCUMENTS

Contract Documents are to be submitted within twenty-one (21) calendar days AFTER award of contract unless extended by agreement of the City. Failure to timely submit executed Contract Documents may be grounds for rejecting the bid award and forfeiture of the bid security. See enclosed documents commencing on page CD-1.

BID PROPOSAL (BP)

PARK ELECTRONIC SIGNAGE
ROWLEY PARK

JN 529

Contractor: _____

Address: _____

Phone: _____

Fax: _____

License No.: _____

D.I.R. No. _____

Email: _____

To Be Submitted

WITH

Bid Package

BID PROPOSAL

PROJECT NO. JN 529

BID SCHEDULE

The undersigned, having examined the proposed Contract Documents titled:

PARK ELECTRONIC SIGNAGE

and having visited the site and examined the conditions affecting the work, hereby proposes and agrees to furnish all labor, materials, equipment, and appliances, and to perform operations necessary to complete the work as required by said proposed Contract Documents and itemized bid schedule below. All work shall be completed within **30 Working Days** from the date the Notice of Proceed is issued by the Engineer.

Item No.	Item Description	Unit	Approx. Quantity	Unit Price in Figures	Item Total
1	Traffic Control & Public Safety	LS	LS	$	$
2	Best Management Practices	LS	LS	$	$
3	Clear & Grubbing	LS	LS	$	$
4	Demolition & Removals	LS	LS	$	$
5	Temporary Construction Fencing	LS	LS	$	$
6	6” Curb	LF	250	$	$
7	Soil Preparation & Fine Grading	SF	1,130	$	$
8	Weed Abatement	SF	1,130	$	$
9	Remove 18” Soil, AC, Base, etc.	LS	LS	$	$
10	Import 18” Class A Top Soil	LS	LS	$	$
11	Trees – 24” Box	EA	1	$	$

12	Shrubs – 5 Gal	EA	119	$	$
13	Irrigation Modification	LS	LS	$	$
14	Wood Mulch (3” Layer)	LS	LS	$	$
15	Ninety (90) Day Maintenance	LS	LS	$	$
16	LED Readerboard Sign	LS	LS	$	$
17	AC Cut & Patch	LS	LS	$	$
18	Backfill AC Trench	LS	LS	$	$
19	3#4 1#8GRD – 1-1/4”C	LS	LS	$	$
20	1-1/2”C	LS	LS	$	$
21	Pull Box 17x12x12	EA	3	$	$
22	Electrical Services and Controls	LS	LS	$	$
23	Building and Safety Permit	LS	LS	$8,700.10	$8,700.10

BID SCHEDULE (Continued)

TOTAL CONTRACT BID:

(Figures) $ _____

(Words) _____

*** In case of error in extension of price into the total price column, the unit price will govern.**

All work required and shown on the construction plans and this specification for which no price or item is listed on this proposal, it shall be understood that such work, equipment, labor, tools and materials shall be provided without extra charge, allowance or direct payment of any kind. Payment for performing such work or furnishing such equipment, labor, tools and materials shall be included in the above lump sum or unit bid prices and no additional compensation will paid therefor.

If the City determines that any of the unit bid prices are significantly unbalanced to the potential detriment of the City, the bid will be replaced as non-responsive.

In case of any discrepancy between the words and the figures, the words shall prevail. If the unit price and the total amount for any item are not in agreement, the unit price alone shall be considered to represent the bidder's intention and all totals will be corrected to conform thereto.

Attached hereto is cash, a certified check, a cashier's check, or a bidder's bond in the amount of _____Dollar
s, said amount being not less than 10 percent of the amount bid. Pursuant to Public Contract Code Sections 20172 and 20174, it is agreed a portion equal to the difference between the low bid and second low bid shall be retained as a bid bond forfeiture by the City if the undersigned fails or refuses to execute the Contract and furnish the required bonds and certificates of insurance within the time provided.

_____
Name of Bidder

_____
Signature of Bidder

BID PROPSOAL

PROJECT NO. JN 529

ACKNOWLEDGEMENT OF ADDENDA RECEIVED

The Bidder shall acknowledge the receipt of addenda by number and date each addendum received.

Addendum No. ____ Date _____ Addendum No. ____ Date _____

Addendum No. ____ Date _____ Addendum No. ____ Date _____

Addendum No. ____ Date _____ Addendum No. ____ Date _____

Addenda will be issued only through the ARC Document Solutions and access under their "Planrooms"/"Order From Planwell" (https://www.e-arc.com/location/costa-mesa/). It is the Bidder's sole responsibility to visit the Planroom to obtain and administer any Addendum related to this bid. **An Addendum must be acknowledged above by a bidder in its submitted form of Proposal.**

If an addendum or addenda has been issued by the City and not noted above as being received by the Bidder, the Bid Proposal may be rejected.

_____ _____

Bidder's Signature Date

BID PROPOSAL

PROJECT NO. JN 529

BIDDER'S DECLARATION

It is understood and agreed that:

1. The undersigned has carefully examined all documents which will form a part of the Contract; namely, the Notice Inviting Bids, the Instructions to Bidders, this Proposal, the Bid Bond, the Contract, the Faithful Performance Bond, the Payment Bond, the federal requirements, if any, the Plans and Specifications, the Special Provisions, and the Technical Provisions.

2. The undersigned has, by investigation at the site of the work and otherwise, satisfied himself as to the nature and location of the work and fully informed himself as to all conditions and matters, which can in any way affect the work or the cost thereof.

3. The undersigned fully understands the scope of work and has checked carefully all words and figures inserted in this Proposal and he further understands that the City will not be responsible for any errors or omissions in the preparation of the Proposal.

4. The undersigned agrees and acknowledges that he is aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and that the undersigned will comply with such provisions before commencing the performance of the Contract if it is awarded to the undersigned.

The undersigned will execute the Contract and furnish the required statutory bonds and certificates of insurance within the period of time specified in the Contract Documents.

The undersigned will begin work after award of Contract and a Notice to Proceed has been given as herein specified and will complete said work within the time specified in the Bidding Schedule.

5. The undersigned certifies that this Proposal is genuine and not sham or collusive, or made in the interest or on behalf of a person not herein named, and the undersigned has not directly or indirectly induced or solicited any other bidder to put in a sham bid nor induced any other person, firm, or corporation to refrain from bidding. The undersigned has not in any manner sought by collusion to secure for himself any advantage over any other bidder.

6. The undersigned will accept an award and enter into a Contract for all work scheduled herein on which he puts in a bid. The awards for such work are to be entirely at the discretion of the City after evaluation of the bids as submitted. The undersigned agrees that the City shall recover or retain as a bid bond forfeiture an amount equal to the difference between the low bid and amount of the bid of the bidder with whom the City enters into a Contract, and the surplus, if any, shall be returned to the lowest bidder in accordance with the provisions of the Public Contract Code Sections 20172 and 20174 in the event of his failure to execute a Contract and furnish required bonds and insurance therefor within the time provided.

BIDDER'S DECLARATION (Continued)

7. The undersigned bidder stated under penalty of perjury that the representations made in submitting this bid are, to the best of his/her knowledge, true, accurate, and complete.

Respectfully submitted,

Contractor's Business Name	Contractor (Print) Title
Business Address: Street	Signature Title
City State Zip	Contractor's License No. and Classification
Business Phone Number	Business Fax Number
Date	
Name Title	Residence: Street
City State Zip	Residence Phone Number

Note: If the bid is made by an individual, it must be signed with the full name of the bidder, whose address must be given: if it is made by a firm, it must be signed in the co-partnership's name by a general partner thereof, who shall also sign his or her own name, and the name and full address of each partner (general and/or limited) must be given; and if it is made by a corporation, it must be signed by a properly authorized officer, the corporate name shall be set forth, and the corporate seal shall be affixed.

BID PROPOSAL

PROJECT NO. JN 529

NON-COLLUSION AFFIDAVIT

(To be executed by Bidder and submitted with Bid)

State of California

County of Los Angeles

_____ being first duly sworn, deposes and says that he or she is _____ of _____ _____ the party making the foregoing bid, that the bid is not made in the interest of, or on the behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay fee to any corporation, or agent thereof to effectuate a collusive or sham bid.

_____
NAME OF BIDDER

_____
SIGNATURE OF BIDDER

_____
ADDRESS OF BIDDER

_____
CITY STATE ZIP

ALL SIGNATURES MUST BE WITNESSED BY NOTARY
(attach appropriate jurats)

BID PROPOSAL

PROJECT NO. JN 529

DECLARATION OF ELIGIBILITY TO CONTRACT

[Labor Code Section 1777.1; Public Contract Code Section 6109]

The undersigned, a duly authorized representative of the contractor, certifies and declares that:

1. The undersigned contractor is aware of Sections 1777.1 and 1777.7 of the California Labor Code, which prohibit a contractor or subcontractor who has been found by the Labor Commissioner or the Director of Industrial Relations to be in violation of certain provisions of the Labor Code, from bidding on, being awarded, or performing work as a subcontractor on a public works project for specified periods of time.

2. The undersigned contractor is not ineligible to bid on, be awarded or perform work as a subcontractor on a public works project by virtue of Sections 1771.1 or 1777.7 of the California Labor Code or any other provision of law.

3. The undersigned contractor is aware of California Public Contract Code Section 6109, which states:

> "(a) A public entity, as defined in Section 1100 [of the Public Contract Code], may not permit a contractor or subcontractor who is ineligible to bid or work on, or be awarded, a public works project pursuant to Section 1777.1 or 1777.7 of the Labor Code to bid on, be awarded, or perform work as a subcontractor on, a public works project. Every public works project shall contain a provision prohibiting a contractor from performing work on a public works project with a subcontractor who is ineligible to perform work on the public works project pursuant to Section 1771.1 or 1777.7 of the Labor Code."
>
> "(b) Any contract on a public works project entered into between a contractor and a debarred subcontractor is void as a matter of law. A debarred subcontractor may not receive any public money for performing work as a subcontractor on a public works contract, and any public money that may have been paid to a debarred subcontractor by a contractor on the project shall be returned to the awarding body. The contractor shall be responsible for the payment of wages to workers of a debarred subcontractor who has been allowed to work on the project."

4. The undersigned contractor has investigated the eligibility of each and every subcontractor the undersigned contractor intends to use on this public works project, and has determined that none of them are ineligible to perform work as a subcontractor on a public works project by virtue of the foregoing provisions of the Public Contract Code, Sections 1771.1 or 1777.7 of the Labor Code, or any other provision of law.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed this _____ day of _____, 20___, at _____ _____ *(place of execution)*, California_____.

Signature: _____ Name: _____

Title: _____ Company: _____

BID PROPOSAL

PROJECT NO. JN 529

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

THAT _____, as Principal,
and _____, as Surety,
are held firmly bound unto the City of Gardena in the sum of $_____;
_____DOLLARS,
(not less than ten percent of total amount of bid)
for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a bid to the City to perform all work required under the following:

PROJECT: **ROWLEY PARK ELECTRONIC SIGN, JN 529**

NOW, THEREFORE, if said Principal is awarded a Contract by the City and, within the time and in the manner required in the Specifications for said project, enters into the written form of Contract bound with said Specifications and furnishes the required bonds, one to guarantee faithful performance and the other to guarantee payment for labor and materials, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by the City and judgment is recovered, said Surety shall pay all costs incurred by the City in such suit, including a reasonable attorneys' fee to be fixed by the court. Surety hereby waives the provisions of California Civil Code §2845.

SIGNED AND SEALED, this_day of _____, 20_____.

_____(SEAL) _____(SEAL)
Principal Surety

BY:_____ BY:_____
Signature Signature

Note: This bond must be dated, all signatures must be notarized, and evidence of the authority of any person signing as attorney–in-fact must be attached.

BID PROPOSAL

PROJECT NO. JN 529

DESIGNATION OF SUBCONTRACTORS

In compliance with the "Subletting and Subcontracting Fair Practices Act" being Sections 4100-4113 of the Public Contract Code of the State of California, and any amendments thereto, each bidder shall set forth below the name and location of the place of business of each subcontractor who will perform work or labor or render service to the prime contractor in or about the construction of the work or improvement in an amount in excess of one-half (1/2) of one percent (1%) of the prime contractor's total bid, and shall further set forth the portion of the work which will be done by each subcontractor. Only one subcontractor for each such portion shall be listed.

If the contractor fails to specify a subcontractor for any portion of the work to be performed under the contract, he shall be deemed to have agreed to perform such portion himself, and he shall not be permitted to subcontract that portion of the work except under the conditions hereinafter set forth.

Subletting or subcontracting of any portion of the work to which subcontractor was designated in the original bid shall only be permitted in cases of public emergency or necessity, and then only after a finding reduced to writing as a public record of the legislative body of the City.

Portion of Work %	Subcontractor's Name & Address	Type of Work	State License Number	Class	D.I.R. Number

Not more than _____%.

BID PROPOSAL

PROJECT NO. JN 529

CONSTRUCTION PROJECT REFERENCE

In order to more fully evaluate your background and experience for the project herein proposed, please submit a list of Public Works and/or similar construction projects completed or in progress within the last three (3) years. Failure to provide this information may constitute grounds for rejection of your bid as non-responsive.

Number of years as a contractor in construction work of this type: _____

Three projects of this type recently completed:

1. Name (Firm/Agency): _____
   Address: _____
   Contact Person: _____ Telephone No.: _____
   Title of Project: _____
   Project Location: _____
   Date of Completion: _____ Contract Amount: $ _____

2. Name (Firm/Agency): _____
   Address: _____
   Contact Person: _____ Telephone No.: _____
   Title of Project: _____
   Project Location: _____
   Date of Completion: _____ Contract Amount: $ _____

3. Name (Firm/Agency): _____
   Address: _____
   Contact Person: _____ Telephone No.: _____
   Title of Project: _____
   Project Location: _____
   Date of Completion: _____ Contract Amount: $ _____

NOTE: If requested by the City, the bidder shall furnish a certified financial statement, references, and other information sufficiently comprehensive to permit an appraisal of his current financial condition.

Bidder's Signature _____

BID PROPOSAL

PROJECT NO. JN 529

CERTIFICATE OF NON-DISCRIMINATION BY CONTRACTORS

As suppliers of goods or services to the City, the firm listed below certifies that it does not discriminate in its employment with regard to race, color, religion, sex, or national origin; that it is in compliance with all applicable federal, state, and local directives, and executive orders regarding non-discrimination in employment; and that it agrees to pursue positively and aggressively the principle of equal opportunity in employment.

We agree specifically:

1. To establish or observe employment policies which affirmatively promote opportunities for minority persons at all job levels.

2. To communicate this policy to all persons concerned, including all company employees, outside recruiting services, especially those serving minority communities, and to the minority communities at large.

3. To take affirmative steps to hire minority employees within the company.

FIRM_____

TITLE OF PERSON SIGNING_____

SIGNATURE_____

DATE_____

Please include any additional information available regarding equal opportunity employment programs now in effect within your company:

_____

_____

_____

_____

_____

_____

BID PROPOSAL

PROJECT NO. JN 529

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION – PRIMARY COVERED TRANSACTIONS

(BEFORE COMPLETING CERTIFICATION, READ INSTRUCTIONS ON NEXT PAGE)

The Contractor shall not perform Work with any Subcontractor that has been debarred or suspended pursuant to California Labor Code Section 1777.1 or any other federal or State law providing for the debarment of contractors from public works. The Contractor and Subcontractors shall not be debarred or suspended throughout the duration of the Contract pursuant to Labor Code Section 1777.1 or any other federal or State law providing for the debarment of contractors from public works. If the Contractor or any Subcontractor becomes debarred or suspended during the duration of the Project, the Contractor shall immediately notify the City.

1. The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

    a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

    b. Have not within a 5-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, or receiving stolen property;

    c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph 1b of this certification; and

    d. Have not within a 5-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

2. Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Signature: _____ Name: _____

Title: _____ Company: _____

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION – PRIMARY COVERED TRANSACTIONS (Continued)

INSTRUCTIONS FOR CERTIFICATION

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.
4. The prospective primary participant shall provide immediate written notice to the department or agency to which this proposal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations (13 CFR Part 145).
6. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.
7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Covered Transactions," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the ineligibility of its principals. Each participant may, but is not required to, check the Nonprocurement List.
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

CONTRACT DOCUMENTS (CD)

PARK ELECTRONIC SIGNAGE
ROWLEY PARK

JN 529

To be Submitted
within twenty-one (21) calendar days

AFTER
Award of Contract

CONTRACT DOCUMENT

PROJECT NO. JN 529

AGREEMENT

THIS AGREEMENT, made and entered into this _____ day of _____, 20_____, by and between CITY OF GARDENA in the State of California, hereinafter referred to as "CITY" and_____, hereinafter referred to as "CONTRACTOR."

The City and the Contractor mutually agree as follows:

ARTICLE I.

THE PROJECT

For and in consideration of the mutual promises set forth herein, Contractor agrees to perform and complete in a good and workmanlike manner all work required by the Contract Documents for City Project No. JN 529, which is described as follows:

Title: ROWLEY PARK ELECTRONIC SIGN

Said work shall be performed in accordance with the Plans, Specifications and other Contract Documents, all of which are referenced in Article III hereof and incorporated herein as though fully set forth. Contractor shall furnish at its own expense all labor, materials, equipment and services necessary therefor, except such labor, materials, equipment and services as are provided in the Contract Documents to be furnished by City.

This project is subject to Skilled and Trained Workforce Requirements per Sections 2600 through 2603 of the Public Contract Code.

ARTICLE II.

CONTRACT SUM AND PAYMENT

For performing and completing the work in accordance with the Contract Documents, City shall pay Contractor, in full compensation therefor, the contract sum set forth in the Bidding Schedule. Said sum shall constitute payment in full for all work performed hereunder, including, without limitation, all labor, materials, equipment, tools and services used or incorporated in the work, supervision, administration, overhead, expenses and any and all other things required, furnished or incurred for completion of the work as specified in the Contract Documents. City shall make payments to Contractor on account of the contract sum at the time, in the manner, and upon the conditions specified in the Contract Documents.

ARTICLE III.

CONTRACT DOCUMENTS

The Contract Documents, which constitute the entire agreement between the City and the Contractor, are enumerated as follows: Proposal Documents, including the Notice Inviting Bids, Instructions to Bidders, Bidding Schedule, Bidder's Declaration, Designation of Subcontractors, Bidder's Assurance, and Fair Employment Practices documents; this Agreement; Standard Specifications; Special Provisions; Technical Provisions; Drawings; Plans; and all addenda issued prior to and all modifications issued after the execution of this Agreement. These form the Contract, and all are as fully a part of the Contract as if attached to this Agreement or repeated herein.

ARTICLE IV.

EFFECTIVE DATE

This Agreement shall become effective and commence as of the date set forth below on which the last of the parties, whether City or Contractor, executes said Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed and attested by their proper officers thereunto duly authorized.

CITY

Tasha Cerda, Mayor

Date:
Seal:

CONTRACTOR

Name & Title

Sign:
Date:

SECOND SIGNATURE: (Contractor)

Name & Title

ATTEST:

Sign:
Date:

Mina Semenza, City Clerk

Date:

APPROVED AS TO FORM:

Carmen Vasquez, City Attorney

Date:

CONTRACT DOCUMENT

PROJECT NO. JN 529

FAITHFUL PERFORMANCE BOND

WHEREAS, the City of Gardena has awarded to _____, hereinafter designated as the "Principal", a Contract for:

PROJECT: PARK ELECTRONIC SIGNAGE, JN 529

WHEREAS, said Principal is required under the terms of said Contract to furnish a bond for the faithful performance of said Contract;

NOW, THEREFORE, we,_____
as Principal, and_____
as Surety, are held and firmly bound unto the City in the sum of_____
_____
Dollars ($_____), this amount being not less than one hundred percent (100%) of the total Contract price, lawful money of the United States of America, for payment of which sum well and truly to be made we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents. In case suit is brought upon this bond, the Surety will pay all court costs and reasonable attorneys' fees to the City of Gardena in an amount to be fixed by the court.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if the hereby bounded Principal, his or its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, well and truly keep and perform all the undertakings, terms, covenants, conditions and agreements in the said Contract and any alteration thereof, made as therein provided, all within the time and in the manner therein designated and in all respects according to their true intent and meaning, then this obligation shall become null and void; otherwise, it shall be and remain in full force and effect.

FURTHER, the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, addition, or modification to the terms of the Contract, or of the work to be performed thereunder, or the specifications for the same, shall in any way affect its obligations under this bond, and it does hereby waive notice of any such change, extension of time, alteration, addition, or modification to the terms of the Contract or to the work or to the specifications thereunder. Surety hereby waives the provisions of California Civil Code §§ 2845 and 2849. The City is the principal beneficiary of this bond and has all rights of a party hereto.

This bond shall remain in full force and effect for a warranty period of one full year after acceptance of the job by the City.

IN WITNESS WHEREOF, three (3) identical counterparts of this instrument, each of which shall for all purposes be deemed an original thereof, have been duly executed by the Principal and

Surety named herein, on the_____ day of_____, 20___, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

[PRINCIPAL]

By _____

Title _____

_____

Signature

[SURETY]

By _____

Title _____

Address _____

_____

Phone No. _____

_____

Signature

All signatures must be notarized.

Appropriate modifications shall be made to this form if the bond is being furnished for the performance of an act not provided for by agreement.

Corporations must affix corporate seal.

CONTRACT DOCUMENT

PROJECT NO. JN 529

PAYMENT BOND

WHEREAS, the City of Gardena has awarded to _____, as Contractor, a contract for the work described as follows:

PROJECT: PARK ELECTRONIC SIGNAGE, JN 529

AND WHEREAS, said Contractor is required to furnish a bond in connection with said contract, to secure the payment of claims of laborers, mechanics, materialmen and other persons, as provided by law;

NOW, THEREFORE, we, the undersigned Contractor and Surety, are held firmly bound unto the City in the sum of _____, Dollars ($_____) this amount being not less than one hundred percent (100%) of the total Contract price, for which payment well and truly to be made we bind ourselves, our heirs, executors and administrators, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if said Contractor, its heirs, executors, administrators, successors, assigns, or subcontractors shall fail to pay any of the persons named in Civil Code Section 3181, or amounts due under the Unemployment Insurance Code with respect to work or labor performed under the contract, or any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the Contractor and its subcontractors pursuant to Section 13020 of the Unemployment Insurance Code, or any other amounts due to persons under any applicable project contract or law, with respect to such work and labor, then the Surety or Sureties herein will pay for the same in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In case suit is brought upon this bond, the said Surety will pay all court costs and reasonable attorneys' fees to the plaintiff(s) and City in an amount to be fixed by the court.

This bond shall inure to the benefit of any of the persons named in Civil Code Section 3181 as to give a right of action to such persons or their assigns in any suit brought upon this bond.

Further, the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, addition, or modification to the terms of the Contract, or of the work to be performed thereunder, or the specifications for the same, shall in any way affect its obligations under this bond, and it does hereby waive notice of such change, extension of time, alteration, addition, or modification to the terms of the Contract or to the work or to the specifications thereunder. Surety hereby waives the provisions of California Civil Code §§ 2845 and 2849.

This bond shall remain in full force and effect for six full months after the period in which verified claims may be filed as provided for in Section 3184 of the California Civil Code.

IN WITNESS WHEREOF, we have hereunto set our hands and seals on this_____day of _____20_____.

[PRINCIPAL]

By _____

Title _____

_____

Signature

[SURETY]

By _____

Title _____

Address _____

_____

Phone No. _____

_____

Signature

All signatures must be notarized.

Appropriate modifications shall be made to this form if the bond is being furnished for the performance of an act not provided for by agreement.

Corporations must affix corporate seal.

CONTRACT DOCUMENT

PROJECT NO. JN 529

WORKER'S COMPENSATION INSURANCE CERTIFICATE

The Contractor shall execute the following form as required by the California Labor Code, Sections 1860 and 1861:

> I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of the Contract.

DATED:_____

_____
CONTRACTOR

By_____
Signature

_____
Title

ATTEST:

By_____
Signature

_____
Title

CONTRACT DOCUMENT

PROJECT NO. JN 529

INDEMNIFICATION AND HOLD HARMLESS AGREEMENT AND WAIVER OF SUBROGATION AND CONTRIBUTION

PARK ELECTRONIC SIGNAGE

To the fullest extent permitted by law, Indemnitor hereby agrees, at its sole cost and expense, to defend, protect, indemnify, and hold harmless the City of Gardena and its respective elected officials, officers, attorneys, agents, employees, volunteers, successors, and assigns (collectively "Indemnitees") from and against any and all damages, costs, expenses, liabilities, claims, demands, causes of action, proceedings, expenses, judgments, penalties, liens, and losses of any nature whatsoever, including fees of accountants, attorneys, or other professionals and all costs associated therewith (collectively "Liabilities"), arising or claimed to arise, directly or indirectly, out of, in connection with, resulting from, or related to any act, failure to act, error, or omission of Indemnitor or any of its officers, agents, servants, employees, subcontractors, materialmen, suppliers or their officers, agents, servants or employees, arising or claimed to arise, directly or indirectly, out of, in connection with, resulting from, or related to the above-referenced contract, agreement, license, or permit (the "Agreement") or the performance or failure to perform any term, provision, covenant, or condition of the Agreement, including this indemnity provision. This indemnity provision is effective regardless of any prior, concurrent, or subsequent active or passive negligence by Indemnitees and shall operate to fully indemnify Indemnitees against any such negligence. This indemnity provision shall survive the termination of the Agreement and is in addition to any other rights or remedies which Indemnitees may have under the law. Payment is not required as a condition precedent to an Indemnitee's right to recover under this indemnity provision, and an entry of judgment against an Indemnitee shall be conclusive in favor of the Indemnitee's right to recover under this indemnity provision. Indemnitor shall pay Indemnitees for any attorney fees and costs incurred in enforcing this indemnification provision. Notwithstanding the foregoing, nothing in this instrument shall be construed to encompass (a) Indemnitees' sole negligence or willful misconduct to the limited extent that the underlying Agreement is subject to Civil Code 2782(a), or (b) the contracting public agency's active negligence to the limited extent that the underlying Agreement is subject to Civil Code 2782(b). This indemnity is effective without reference to the existence or applicability of any insurance coverages which may have been required under the Agreement or any additional insured endorsements which may extend to Indemnitees.

Indemnitor, on behalf of itself and all parties claiming under or through it, hereby waives all rights of subrogation and contribution against the Indemnitees, while acting within the scope of their duties, from all claims, losses and liabilities arising out of or incident to activities or operations performed by or on behalf of the Indemnitor regardless of any prior, concurrent, or subsequent active or passive negligence by the Indemnitees. Accountants, attorneys, or other professionals employed by Indemnitor to defend Indemnitees shall be selected by Indemnitees.

In the event there is more than one person or entity named in the Agreement as an Indemnitor, then all obligations, liabilities, covenants and conditions under this instrument shall be joint and several.

"Indemnitor"

Company/Contractor _____

Name & Title _____

Signature & Date _____

CONTRACT DOCUMENT

PROJECT NO. JN 529

INSURANCE

CERTIFICATION OF INSURANCE (COI) SHALL BE SUBMITTED BY THE CONTRACTOR

1. **COMMENCEMENT OF WORK**. Contractor shall not be authorized to commence Work under this Contract until it has obtained approved insurance. Before beginning Work hereunder, during the entire period of this Contract, for any extensions hereto, and for periods after the end of this Contract as may be indicated below, Contractor must have and maintain in place not less than the insurance coverages required in this Section at his sole cost and expense. Contractor's insurance shall comply with all items specified by this Contract. Any subcontractors shall be subject to all of the requirements of this Section and Contractor shall be responsible to obtain evidence of insurance from each subcontractor and provide it to City before the subcontractor commences work. Alternatively, Contractor's insurance may cover all subcontractors. The insurance requirements are not intended to and shall not in any manner limit or qualify the liabilities and obligations assumed by Contractor under this Contract.

2. **INSURANCE COMPANY REQUIREMENTS.** All insurance policies used to satisfy the requirements imposed hereunder shall be issued by insurers admitted to do business in the State of California. Insurers shall have a current Best's rating of not less than A-:VII, unless otherwise approved by City.

3. **COVERAGES, LIMITS AND POLICY REQUIREMENTS**. Contractor shall maintain the types of coverages indicated below:

4. **COMPREHENSIVE GENERAL LIABILITY INSURANCE.** A policy of comprehensive general liability insurance written on a per occurrence basis in an amount not less than either one million dollars ($1,000,000) per occurrence or two million dollars ($2,000,000) aggregate.

5. **COMMERCIAL AUTO LIABILITY INSURANCE**. A policy including all coverages provided by and to the extent afforded by Insurance Services Office form CA 0001, ed. 12/93, including Symbol 1 (any auto) with no special limitations affecting City. The minimum auto insurance coverage shall be one million dollars ($1,000,000) combined single limit per accident.

6. **WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE**. A policy which meets all statutory benefit requirements of the Labor Code, or other applicable law, of the State of California. The minimum coverage limits for said insurance shall be no less than one million dollars ($1,000,000) per claim. The policy shall be issued by an insurance company which is admitted to do business in the State of California and shall contain a clause that the policy may not be canceled without thirty (30) days prior written notice, return receipt requested, is mailed to City.

   In accordance with the provisions of section 1860 of the California Labor Code, Contractor's attention is directed to the requirement that in accordance with the provisions of section 3700 of the California Labor Code, Contractor and every subcontractor will be required to secure the payment of compensation of his or her employees, or obtain a certificate of

consent to self-insurance by the Director of Industrial Relations in accordance with the requirements of Section 3700 of the California Labor Code.

In accordance with the provisions of section 1861 of the California Labor Code, Contractor shall sign and file with the awarding body the following certification prior to performing any work on the Project:

> "I am aware of the provisions of section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract."

7. **POLICY REQUIREMENTS.** The policies set forth above shall comply with the following, as evidenced by the policies or endorsements to the policies:

   (i) City and its appointed and elected officers, employees, agents and volunteers shall be added as additional insured to the policy as respects liabilities arising out of the performance of any work done under the Contract.

   (ii) The insurer shall agree to provide City with thirty (30) days prior written notice, return receipt requested, of any cancellation, non-renewal or material change in coverage.

   (iii) For any claims with respect to the Project covered by this Contract, Contractor's insurance coverage shall be primary insurance as respects City and its elected and appointed officers, employees, agents and volunteers. Any insurance or self-insurance maintained by City and its elected and appointed officers, employees, agents and volunteers shall be excess of Contractor's insurance and shall not contribute with it.

   (iv) The policy shall apply separately to each insured against whom claim is made or suit is brought except with respect to the limits of the company's liability.

8. **COURSE OF CONSTRUCTION INSURANCE.** Contractor shall provide course of construction insurance covering for "all risks" of loss in the amount of the completed value of the Work. The City shall be named as a loss payee and the insurer shall waive all rights of subrogation against the City. This policy shall be issued by an insurance company which is admitted to do business in the State of California and shall contain a clause that the policy may not be canceled until thirty (30) days written notice, return receipt requested, is mailed to the City. Course of Construction Insurance may be provided for each separate Phase.

9. **ADDITIONAL REQUIREMENTS.** The procuring of required insurance shall not be construed to limit Contractor's liability hereunder nor to fulfill the indemnification provisions and requirements of this Contract. City shall notify Contractor in writing of changes in the insurance requirements. If Contractor does not deposit copies of acceptable insurance policies or endorsements with City incorporating such changes within sixty (60) days of receipt of such notice, Contractor shall be deemed in default hereunder.

10. **DEDUCTIBLES.** Any deductible or self-insured retentions must be declared to and approved by City. Contractor shall guarantee that, at the option of the City, either: the insurer shall eliminate or reduce such deductibles or self-insured retentions with respect to City, its officers, employees, agents and volunteers (with additional premium, if any, to be paid by Contractor); or Contractor shall provide satisfactory financial guarantee for payment

of losses and related investigations, claim administration and defense expenses in the amount of any deductibles or self-insured retentions.

11. **VERIFICATION OF COMPLIANCE.** Contractor shall furnish City with the required endorsements attached hereto. All documents are to be received and approved by City before Work commences. Not less than fifteen (15) days prior to the expiration date of any policy of insurance required by this Contract, Contractor shall deliver to City a binder or certificate of insurance with respect to each renewal policy, bearing a notation evidencing payment of the premium therefore, or accompanied by other proof of payment satisfactory to City. Contractor shall provide full copies of any requested policies to City within three (3) days of any such request by City.

12. **TERMINATION FOR LACK OF REQUIRED COVERAGE.** If Contractor, for any reason, fails to have in place, at all times during the term of this Contract, including any extension hereto, all required insurance and coverage, City may immediately obtain such coverage at Contractor's expense and/or terminate this Contract. Contractor shall indemnify, defend and hold harmless City and its elected and appointed officers, employees, agents and volunteers from any claim resulting from failure of either Contractor or any subcontractor to take out or maintain any insurance required by this Contract.

13. **EQUIPMENT COVERAGE**. Any policy or policies of insurance Contractor or his subcontractors elect to carry as insurance against loss or damage to construction equipment and tools or other personal property shall include a provision waiving the insurer's right of subrogation against City.

GENERAL PROVISIONS

ROWLEY PARK ELECTRONIC SIGN
JN 529

PART 1 – GENERAL PROVISIONS

SECTION 1 – GENERAL

1-1 GENERAL. The Standard Specifications for Public Works Construction ("Greenbook") written and promulgated by the Southern California Chapter of the American Public Works Association and the Southern California Districts of the Associated General Contractors of California shall be the Standard Specifications of the City. All work shall conform to the 2021 edition, including supplements of the Standard Specifications, the Special Provisions which supplement or modify the Standard Specifications, and the Standard Drawings as issued by the City (defined herein as "Agency") available at the time bids are opened unless otherwise specified in the Contract Documents.

The above referenced Standard Specifications, Special Provisions and Standard Drawings are hereby made a part of the Contract Documents.

For the convenience of the Contractor, the section and subsection numbering system used in these Special Provisions corresponds to that used in the Standard Specifications.

1-2 TERMS AND DEFINITIONS. Whenever in the Standard Specification the following terms are used, they shall be understood to mean and refer to the following:

(a)	AGENCY	The City of Gardena, a California municipal corporation.
(b)	BOARD	The City Council of the City of Gardena
(c)	CONTRACT DOCUMENTS	Documents including but not limited to the proposal forms, Standard "Greenbook" Specifications, Special Provisions, Technical Provisions, Notice Inviting Bids, Instructions to Bidders, Bonds, Insurance, Contract and all Addenda setting forth any modifications of the documents.
(d)	ENGINEER	The City of Gardena Director of Public Works/City Engineer or his authorized representative.
(e)	BIDDER	An individual, co-partnership, association or corporation submitting a proposal for the work contemplated, acting directly or through a duly authorized representative.
(f)	LEGAL ADDRESS OF CONTRACTOR	The legal address of the Contractor to be the address given on the Contractor's bid and is hereby designated as the place to which all notices, letters or other communications to the Contractor shall be mailed or delivered.
(g)	LABORATORY	An established laboratory approved and authorized by the Engineer for testing materials and work involved in the contract.

1-7 AWARD AND EXECUTION OF THE CONTRACT.

1-7.1 General. The proposal shall be fully executed and submitted on the forms provided by the Agency and shall be enclosed in a sealed envelope marked and addressed as directed in the "Notice Inviting Bids".

If the proposal is made by an individual, it shall be signed and his or her full name and address shall be given; if it is made by a firm it shall be signed with co-partnership name by a general partner thereof, who shall also sign his or her known name, and the name and address of each member of such co-partnership shall be given; if made by a corporation, the name of the corporation shall be signed by its duly authorized officers and attested by the corporate seal.

Bidders are warned against making erasures or alterations of any kind on their Proposal. Proposals which contain omissions, erasures, alterations, conditions or additions not called for may be rejected.

At the time the Contract is awarded by the Agency, the Contractor shall be licensed under the provisions of Chapter 9, Division 3, of the Business and Professions Code of the State of California to do the type of work contemplated in the Contract and shall be skilled and regularly engaged in the general class or type of work required by this Contract.

1-7.2 Contract Bonds. The "Performance Bond" is equivalent to City's "Faithful Performance Bond".

1-7.3 Examination of Plans, Specifications and Project Site. Bidders shall read the specifications, review the drawings and examine the existing facilities to fully understand the project in order to plan for the improvements as shown in the contract, including local condition, uncertainty of weather and all other contingencies.

Bidders shall satisfy themselves by personal examination of the proposed work sites, and by such other means as they may choose as to actual conditions and requirements and as to the accuracy of the quantities stated in the Proposal forms. Information derived from the maps, plans, specifications, profiles, drawings, or from the Engineer/Architect of the record, shall not relieve the bidder of this responsibility, and the interpretation of the data disclosed by borings or other preliminary investigations is not guaranteed nor is any liability assumed by the Agency.

1-7.4 Interpretation of Drawings and Documents. If a prospective bidder is in doubt as to the true meaning or intent of any part of the Contract Documents including the Specifications, or discovers discrepancies in, or omissions from, the Specifications or Drawings, he may submit to the Engineer a written request for an interpretation or a correction thereof. Interpretations or corrections of the Contract Documents including the Specifications and Drawings, shall be made only by addendum duly issued by the Engineer, and a copy of such addendum will be sent by certified mail, postage prepaid, or delivered to each person receiving a set of the Contract Documents whose address is known to the Engineer and such addendum shall be considered a part of and incorporated in the Contract Documents.

1-7.5 Award of Contract. After the Proposals have been publicly opened and read aloud, they will be checked for accuracy and compliance with all provisions as specified herein.

The Agency reserves the right to reject any or all bids and to waive any informality or irregularity in any bid received and to be the sole judge of the merits of the respective bids received.

Bids subsequently shown to be mathematically unbalanced would be rejected as nonresponsive.

A mathematically unbalanced bid is one containing lump sum or unit bid items which do not reflect reasonable actual costs plus a reasonable proportionate share of the bidder's anticipated profit, overhead costs, and other indirect costs, which he/she anticipates for the performance of the items in question.

"A bid is mathematically unbalanced if the bid is structured on the basis of nominal prices for some work and inflated prices for other work; that is, each element of the bid must carry its proportionate share of the total cost of the work plus profits."

"A bid is materially unbalanced if there is a reasonable doubt that award to the bidder submitting the mathematically unbalanced bid will result in the lowest ultimate cost to the Government. Consequently, a materially unbalanced bid may not be accepted."

Award of the Contract, if it be awarded, will ordinarily be made by the Agency within 30 days after opening of the bids. Award will be made to the lowest responsive responsible bidder.

In selecting the lowest responsive responsible bidder, consideration will be given to the general competency of the bidder for the performance of the work covered by the proposal. To receive favorable consideration, a bidder may be required to present evidence that he has successfully performed similar work of comparable magnitude or submit other evidence satisfactory to the Agency that he or his associates are competent to manage the proposed undertaking and to carry it forward to a successful conclusion. Professional integrity and honesty of purpose shall be essential requirements. A showing of adequate financial resources may be required but will not alone determine whether a bidder is competent to undertake the proposed work.

Only manufacturers or contractors of established reputation, or their duly authorized dealers or agency, having proper facilities for the manufacture of the materials or equipment and for servicing same, or for proper execution of the work called for in the contract, will be considered in making the award.

1-7.6 Execution of Contract. A bidder whose proposal is accepted shall properly sign a written contract with the Agency on the form attached hereto and return said contract together with good and approved bonds and insurance certificates as required by the Contract Documents **within twenty-one (21) calendar days** from the date of the mailing of a notice from the Agency to the bidder, according to the address given by him, of acceptance of his proposal.

Contract bonds and certificates of insurance, if required, shall be filed in all instances before delivering any equipment, materials, or performing any work under the contract; also before any purchase order shall be issued. An executed Power of Attorney form shall be submitted with all contract bonds herein specified.

If a bidder whose proposal is accepted fails or refuses to enter into a contract as herein provided, or to conform to any stipulated requirement in connection therewith, the money represented by his check or bidder's bond shall be refunded less the difference between the low bid and the bid of the bidder with whom the Agency enters into an agreement in accordance with the provisions of the Public Contracts Code Section 20174. At the discretion of the Agency, an award may be made to the bidder whose proposal is next most acceptable to the Agency, and such bidder and his surety shall fulfill every stipulation embraced herein as if he were the party to whom the first award was made.

A corporation to which an award is made may be required before the contract is finally signed to furnish evidence of its corporate existence, of its right to do business in California and of the authority of the officer signing the contract and bonds for the corporation to so sign.

1-7.7 Return of Proposal and Guarantee. The check or bond of a bidder to whom the contract has been awarded will be returned to him after all of the acts, for the performance of which said security is required, have been fully performed. The checks or bid bonds of the second and third lowest bidders will be returned when the bidder to whom the contract has been awarded has properly executed all of the required Contract Documents. Check or bid bonds of other bidders will be returned when their proposals are rejected or in any event at the expiration of forty-five (45) days from the date of opening bids.

1-7.8 Precedence of Contract Documents. The order of precedence of contract document shall be:

FIRST	Requirements of law, including the Code and Ordinances of the City of Gardena.
SECOND	Permits from other agencies as may be required by law.
THIRD	Permits from City of Gardena Departments as may be required by law or ordinance.
FOURTH	The Contract.
FIFTH	The Bid Proposal.
SIXTH	Addenda.
SEVENTH	Notice Inviting Bids.
EIGHTH	Instructions to Bidders.
NINTH	Technical Provisions.
TENTH	Plans.
ELEVENTH	General Provisions of the Standard Specifications.
TWELFTH	Standard Plans.
THIRTEENTH	Standard Specifications for Public Works Construction (current edition).
FOURTEENTH	Caltrans Standard Plans and Specifications.
FIFTEENTH	Reference Specifications.

Change orders, supplemental agreements and approved revisions to Plans and Specifications will take precedence over documents listed above, except those listed as FIRST, SECOND and THIRD. Detailed plans shall have precedence over general plans.

SECTION 2 – SCOPE OF THE WORK

2-2 PERMITS. The Contractor will obtain, at no cost to the Agency, all permits necessary to perform the work on streets, highways, railways or other rights-of-ways. The Contractor shall obtain and pay for all costs incurred for permits necessitated by its operations such as, but not limited to those permits required for night work, overload, blasting and demolition. For private

contracts, the Contractor shall obtain all permits incidental to the work or made necessary by its operations, and pay all costs incurred by the permit requirements.

The Contractor and each subcontractor employed upon the work must have or obtain a valid City of Gardena Business License in accordance with the provisions of the Gardena Municipal Code.

The project is subject to permit(s) from the Community Development Department. The permits are ready to be issued and the Contractor is required to pull the project permits. The permit costs will be borne by the Contractor. There is also a $10,000 refundable deposit required. See Technical Provisions (TP-1) under Diversion Deposit.

2.10 DISPUTED WORK.

2.10.1 Retention of Imperfect Work. If any portion of the work done or materials furnished under the contract proves defective or not in accordance with the specifications and contract drawings, and if the imperfection in the same is not of sufficient magnitude or importance to make the work dangerous or undesirable, or if the removal of such work is impracticable or will create conditions which are dangerous or undesirable in the opinion of the Engineer, the Engineer shall have the right and authority to retain the work instead of requiring it to be removed and reconstructed, but he shall make deductions therefor in the payment of the contract item due Contractor as may be just and reasonable.

2-11. DISPUTE RESOLUTION.

2-11.1 Requests for Contract Adjustments and Relief. If either Contractor or the Agency believes that it is entitled to relief against the other for any event arising out of or related to the work or Project, such party shall provide written notice to the other party of the basis for its claim for relief. Such notice shall, if possible, be made prior to incurring any cost or expense and in accordance with any specific notice requirements contained in the applicable sections of this Contract.

In the absence of any specific notice requirement, written notice shall be given within a reasonable time, not to exceed fourteen (14) days, after the occurrence giving rise to the claim for relief or after the claiming party reasonably should have recognized the event or condition giving rise to the request, whichever is later. Such notice shall include sufficient information to advise the other party of the circumstances giving rise to the claim for relief, the specific contractual adjustment or relief requested and the basis of such request.

2-11.2 Dispute Avoidance and Resolution. The parties are fully committed to working with each other throughout the Project and agree to communicate regularly with each other at all times so as to avoid or minimize disputes or disagreements. If disputes or disagreements do arise, Contractor and the Agency each commit to resolving such disputes or disagreements in an amicable, professional and expeditious manner so as to avoid unnecessary losses, delays and disruptions to the work under the Contract.

Contractor and the Agency will first attempt to resolve disputes or disagreements at the field level through discussions between Contractor's Representative and the Engineer.

If a dispute or disagreement cannot be resolved through the Contractor's Representative and the Engineer, Contractor's Chief Executive Officer or similar senior representative and the Gardena City Manager, or designee, upon the request of the other party, shall meet as soon as conveniently possible, but in no case later than twenty (20) days after such a request is made, to attempt to resolve such dispute or disagreement. Prior to any meeting between the parties' senior representatives, the parties will exchange relevant information that will assist the parties

in resolving their dispute or disagreement.

If, after meeting, the senior representatives determine that the dispute or disagreement cannot be resolved on terms satisfactory to both parties, the parties may submit the dispute to binding or non-binding mediation. The mediation shall be conducted in any manner and by any person or mediation association mutually acceptable to the parties.

2-11.3 Arbitration. Any claims, disputes or controversies between the parties arising out of or relating to the Contract, or the breach thereof, which have not been resolved in accordance with the procedures set forth in Section 9-4.2 above may be decided by binding or non-binding arbitration. The arbitration shall be conducted in any manner and by any person or arbitration association mutually acceptable to the parties.

2-11.4 Claims Disputes. Any claims of Contractor, as "claims" are defined in California Public Contract Code Section 9204 shall be processed in accordance with that section. Section 9204 provides in relevant part that upon receiving a claim from a contractor, together with reasonable documentation to support the claim, a contracting public entity shall conduct a reasonable review of the claim and, within a period not to exceed 45 days [except as otherwise provided in Section 9204], shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed.

Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, Section 9-4.3 shall apply. If the contractor disputes the public entity's written response, or if the public entity fails to respond to a claim within the time prescribed, the contractor may demand in writing an informal conference to meet and confer for settlement of the issues in dispute.

Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute. Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed.

Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the contractor sharing the associated costs equally. The public entity and contractor shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to other applicable procedures.

2-13 DRAWINGS AND SPECIFICATIONS ("RECORD" DRAWINGS). At all times, the Contractor shall maintain at the project a "Record" set of Drawings and Specifications to include all executed addenda, change orders, and field orders.

Prior to each progress payment the Contractor shall deliver to the Engineer, a set of contract drawings with all applicable "as constructed" notes placed/recorded thereon. Failure to provide "as constructed" plans will cause progress payment to be withheld until information is provided to City.

After completion of the work and before final payment, the Contractor shall deliver to the Engineer a complete set of contract drawings with all applicable "as constructed" noted placed/record thereon. The final form and detail of these as constructed plans are subject to the acceptance of the Engineer.

2-14 MARKING REMOVAL. All markings placed by the Contractor, City, and Underground Service Alert (USA) during construction shall be removed at the completion of the work. These markings shall include, but not limited to, paint, stakes, and metal tags.

All cost associated with removal of markings shall be included in the bid prices for the applicable bid items. Failure of the Contractor to remove these markings shall be cause for the City to do the work and withhold the costs from the Contractor's final payment.

SECTION 3 – CONTROL OF THE WORK

3-5 INSPECTION. Inspection shall be made once a day for areas ready for inspection. Areas or items that fail inspection or that are not ready for inspection shall be rescheduled by the contractor.

Inspection of the work shall not relieve the contractor of the obligation to fulfill all conditions and requirements of the contract.

3-6 THE CONTRACTOR'S REPRESENTATIVE. The Contractor shall furnish the Engineer with the name, address and cell/ business/home telephone numbers of the person responsible for the maintenance of barricades, traffic control signs, lights and other safety devices.

3-10 SURVEYING.

3-10.3 Line and Grade. Unless otherwise provided in the Technical Provisions, establishing lines and grades for construction shall be the responsibility of the Contractor, with the following provisions:

All work under this contract shall be built in accordance with the lines and grades shown on the plans. Field survey for establishing these, and for the control of construction, shall be the responsibility of the Contractor. All such surveys, including construction staking, shall be performed on all items ordinarily requiring grade and alignment, at intervals normally accepted by the agencies and trade involved.

The Contractor shall provide a copy of the office calculations and grade sheets to the Agency's Inspector. The Contractor shall be responsible for any error in the finished work, and shall notify the Engineer within 24 hours of any discrepancies or design errors discovered during staking.

Unless a separate bid item is provided, the payment for surveying, construction staking, professional services, office calculations, furnishing all labor, materials, equipment, tools and incidentals, and for doing all work involved shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

3-10.4 Permanent Survey Markers. The Contractor is required to locate and tie out survey monuments in the project area prior to construction involving street and highways, or City public right of way and to file with the County Surveyor a Corner Record of any such work. Prior to final payment and the issuance of a completion certificate, the Contractor is required to file a Corner Record for survey monumentation that is replaced. All such survey work shall be performed under the supervision of a California licensed Land Surveyor or a Civil Engineer

authorized to perform such work.

The Contractor shall provide the Agency a copy of the office calculations and documents submitted to the County for filing in connection with the aforementioned work.

The payment for surveying, related professional services, office calculation, furnishing all labor, materials, equipment, tools and incidentals, and for doing all work involved shall be considered as included in the various items of work, and no additional compensation will be allowed therefor.

3-12 WORK SITE MAINTENANCE.

3-12.1 General. The Contractor shall keep the work site clean and free from rubbish and debris. The Contractor shall abate dust nuisance by cleaning, sweeping and sprinkling with water in keeping with the AQMD and NPDES requirements. Debris, soil or other matter shall not be washed into storm drains but shall be collected and disposed of in a legal, responsible manner. The construction area shall be cleaned with a power sweeper at the end of every workday and when deemed necessary by the Engineer.

The Contractor shall maintain drainage within and through the work areas. Earth dams will not be permitted in paved areas. Use temporary sandbags to control the site perimeter. At the completion of the project sandbags shall become the property of the City of Gardena and shall be remain in place.

The Contractor shall not spill on haul routes. Any such spillage shall be removed immediately and the area cleaned.

Stockpiling of construction materials or debris on City right-of-way shall be in accordance with the NPDES permit and shall be approved by the inspector. At the completion of work, the Contractor shall thoroughly clean all work areas.

3-12.2 Air Pollution and Surface Maintenance Control. The Contractor shall obtain a construction water meter from Golden State Water including required deposit and fees. The Contractor shall pay for the water used, at the current water rates. All arrangements for construction water shall be made by contractor with Golden State Water at Contractor expense.

3-12.4. Storage of Equipment and Material.

3-12.4.1 General. All costs associated with the disposal of all excavated or demolition materials, including any gate fees, shall be paid by the Contractor. These costs shall be included in the bid price for the applicable bid items.

Prior to any excavated or demolition material being removed from the construction site the Contractor shall notify the City as to the hauling route and destination for disposal. If the location for disposal is other than a county landfill then the Contractor shall provide the City with written permission and release of liability for the City from the owner of the property where the material will be deposited.

<u>The City has an exclusive agreement with Waste Resources, Inc. and no other firm may provide bulk trash bins in the event the work requires this service</u>.

3-12.4.2 Storage in Public Streets. Construction equipment shall not be stored at the construction site, any public street or publicly owned facilities without approval of the City. Contractor shall store equipment at a contractor's rental yard.

All excavated material that is to be hauled to and disposed of at a County landfill site by the Contractor is subject to a County gate fee based on tonnage.

3-12.5.4 Protection and Restoration of Existing Improvements. Any facilities, structures, water lines, landscaping, surfaces, signs, pavement markings, painted curbs, house numbers, etc., which are damaged during construction shall be restored to the satisfaction of the City. Damaged water lines shall be repaired immediately at no additional cost to the city.

3-12.5.5 Access to Private Property. The Contractor shall be aware that business and residential access must be maintained at all times. The Contractor shall schedule operations to minimize interference with access to private property.

The main access way to any business or home shall not be completely blocked for more than one four-hour period a day except blockage shall be limited to one twenty-four (24) hour period when concrete is poured.

Temporary access ways shall be provided from the street to the main access way of all businesses and homes by use of traffic rated steel plates or any other method approved by the city.

Payment for this item shall be included in the applicable contract work item.

3-13 COMPLETION, ACCEPTANCE, AND WARRANTY.

3-13.3 Warranty. In addition to the guarantees as required in Section 1-7.2 and 3-13.3 of the Standard Specifications, the Faithful Performance Bond shall remain in full force and effect for a period of one year after acceptance of the work by the Agency to insure that defects, which may appear within said period, will be repaired, replaced, or corrected by the Contractor, at his own cost and expense, to the satisfaction of the Engineer within thirty (30) days after written notice thereof by the Agency.

SECTION 4 – CONTROL OF MATERIAL

4-1 GENERAL.

4-1.1 Warranty of Title. No materials, supplies or equipment for the work under this Contract shall be purchased subject to any chattel mortgage or under a conditional sale contract or other agreement by which an interest therein or any part thereof is retained by the seller or supplier.

The Contractor warrants clear and good title to all materials, supplies and equipment installed and incorporated in the work, and agrees upon completion of all work to deliver the premises, together with all improvements and appurtenances constructed or placed thereon by him to the Agency free from any claims, liens, encumbrances or charges, and further agrees that neither he nor any person, firm or corporation furnishing any material or labor for work covered by the Contract shall have any right to a lien upon the premises or any improvement or appurtenance thereon; provided, that this shall not preclude the Contractor from installing metering devices or other equipment of utility companies the title of which is commonly retained by the utility company. Nothing contained in this section, however, shall defeat or impair the right of such persons furnishing materials or labor under any bond given by the Contractor for their protection, or any right under any law permitting such persons to look to funds due the Contractor, which are in the hands of the Agency.

The provisions of this section shall be inserted in all subcontractor's and material contracts, and notice of its provisions shall be given to all persons furnishing materials for the work when no

formal contract is entered into regarding such materials.

SECTION 5 – LEGAL RELATIONS AND RESPONSIBLITIES

5-4 INSURANCE. In lieu of Section 5-4 of the Standard Specifications, refer to the City Contract Documents Section, CD-10, for detail requirements.

5-5 ANTITRUST CLAIMS. By entry into this Contract, Contractor hereby acknowledges the terms of Section 7103.5 of the Public Contract Code and hereby offers and agrees to assign to the Agency all rights, title and interest in all causes of action it may have as outlined above.

5-7 SAFETY.

5-7.4 Hazardous Substances. As required by Public Contract Code Section 7104, if this Contract involves digging trenches or other excavations that extend deeper than four (4) feet below the surface, Contractor shall promptly, and prior to disturbance of any conditions, notify the Agency of: (1) any material discovered in excavation that Contractor believes to be a hazardous waste that is required to be removed to a Class I, Class II or Class III disposal site; (2) subsurface or latent physical conditions at the site differing from those indicated by the Agency; and (3) unknown physical conditions of an unusual nature at the site, significantly different from those ordinarily encountered in such contract work. Upon notification, the Agency shall promptly investigate the conditions to determine whether a change order is appropriate. In the event of a dispute, Contractor shall not be excused from any scheduled completion date and shall proceed with all work to be performed under the Contract but shall retain all rights provided by the Contract and by law for making protests and resolving the dispute.

5-7.4.1 Edison Energized Conductors. Contractor hereby promises and agrees that in the performance of the work specified in this Contract, it will employ and utilized only qualified persons, as hereinafter defined, to work in proximity to Edison's secondary, primary and transmission facilities. The term "qualified person" is defined in Title 8, California Administrative Code, Section 2700, as follows:

> "Qualified Person: A person who by reason of experience or instruction is familiar with the operation to be performed and the hazards involved."
>
> Contractor further promises and agrees that the provisions of this section shall be and are binding upon any subcontractor or subcontractors that may be retained by it, and that Contractor shall take such steps as are necessary to assure compliance by said subcontractor or subcontractors with the requirements of this section.

5-7.4.2 Emergency Provisions. Unusual conditions may arise on the work which will require that immediate and unusual provision be made to protect the public from danger or loss or damage to life and property, due directly or indirectly to the prosecution of the work, and it is part of the service required of the Contractor to make such provisions and to furnish such protection.

Whenever, in the opinion of the Agency, an emergency exists of which the Agency is aware and against which the Contractor has not taken sufficient precaution for the safety of the public or the protection of utilities or of adjacent structures or property which may be injured by the progress of construction; and whenever, in the opinion of the Agency, immediate action shall be considered necessary in order to protect public or private personnel or property interests, or prevent likely loss of human life or damage on account of the operations under the Contract, then in that event the Agency may provide suitable protection to said interests by causing such work to be done and material to be furnished, as in the opinion of the Agency may seem

reasonable and necessary, all at the expense of the Contractor.

SECTION 6 – PROSECUTION AND PROGRESS OF THE WORK

6-1 CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK

6-1.1 Construction Schedule. The Contractor's proposed construction schedule shall be submitted to the Engineer within fourteen (14) calendar days after the date of the contract execution. The schedule shall be supported by written statements from each supplier of materials or equipment indicating that all orders have been placed and acknowledged and setting forth the dates that each item will be delivered.

The Contractor shall include in his bid all costs to perform the work under this contract in stages. The Contractor shall begin and complete work in each stage prior to starting work in subsequent stages unless previous permission is obtained from the Engineer. The contractor shall stage the work to allow parking on the next adjacent streets. Restricting parking on multiple adjoining streets shall require approval of the engineer.

6-1.2 Commencement of the Work. City may establish a Notice to Proceed (NTP) date no later than thirty (30) calendar days after the date of the contract execution. Prior to issuing the Notice to Proceed, the Engineer will schedule a preconstruction meeting with the Contractor to review the proposed construction schedule and delivery dates, arrange utility coordination, discuss construction methods and clarify inspection procedures.

The names, addresses and telephone numbers of the Contractor and subcontractors, or their representatives, shall be filed with the Public Works Manager and the County Sheriff's Department or the City Police Department prior to beginning work.

The Contractor shall also notify the City of Gardena and the owners of all utilities and substructures within the Project area not less than 48 hours prior to starting construction. The following utility companies list of names and telephone numbers is intended for the convenience of the contractor and is not guaranteed to be complete or correct:

COMPANY	***CONTACT***	***TELEPHONE NO.***
Southern California Edison	Joshua Remijio	562.756.3241
Southern California Gas	Melissa Fukunaga: Tech Services Planning: Attn - Lead Planner	213.231.7281
AT&T	Marco A. Perez	626.491.5503
	Raymond Dover	310.515.4257
Gardena Police	Dispatch	310.3237911
L.A. County Fire Dept.		310.323.7911
Time Warner Communications	Arturo Fernandez	310.750.9099
Crown Castle	Hector Aguilera	951.454.5111
Waste Resources of Gardena	Lorena Rodriguez	310.366.7600
Golden State Water Co.	Conde Ventura	310.436.6950 x107
	Joseph Salcido	310.660.0320 x101
L.A. County Flood Control	Daryll Chenoweth	626.458.3129
L.A. Sanitation District	Jon Ganz	562.908.4288

Metropolitan Water District	Civil Eng. Substructures Section	213.217.7059
Chevron Pipeline	Dave Zerler	310.669.4014
Underground Service Alert		800.422.4133

The Contractor shall submit periodic Progress reports to the Engineer by the tenth day of each month. The report shall include an updated Construction Schedule. Any deviations from the original schedule shall be explained. Progress payments will be withheld pending receipt of any outstanding reports.

6-1.3 Working Day. The Contractor's working hours shall be limited to the hours between 7:30 A.M. and 4:30 P.M., Monday through Friday except holidays. No work which will cause loud or disruptive noise to adjacent residents and "No Parking" enforcement shall begin prior to 8:00 a.m. nor terminate later than 4:30 p.m. Deviation from normal working hours will not be allowed unless written permission has been duly obtained beforehand from the office of the City Engineer. The Contractor shall provide adequate light for proper prosecution of the work, for the safety of the workmen and the public, and for proper inspection.

If the Contractor works beyond the allowed working hours without prior written approval from the Engineer, the Contractor may be charged Five Hundred ($500) for each occurrence as required by the Engineer. The amount will be deducted from a progress payment or bond.

Contractor hereby acknowledges and shall be required to comply with the provisions of California Labor Code Section 1810 et seq. According to those sections, eight (8) hours of labor shall constitute a legal day's work. Contractor shall pay to the Agency a penalty of Twenty-Five Dollars ($25.00) for each worker employed in the execution of this Contract by Contractor, or by any Subcontractor, for each calendar day during which such worker is required or permitted to work more than eight (8) hours in any calendar day or forty (40) hours in any one (1) calendar week, except when payment for overtime is made at not less than one and one-half (1-1/2) times the basic rate for that worker.

In the event of either a requested or emergency deviation, inspection service fees will be charged against the Contractor. The service fees will be calculated at overtime rates including benefits, overhead and travel time. The service fees will be deducted from any amounts due to the Contractor.

6-1.4 Notice and Service Thereof. Any notice required or given by one party to the other under the contract shall be in writing and shall be dated and signed by the party giving such notice or by a duly authorized representative of such party. Any such notice shall not be effective for any purpose whatever unless served in the following manner:

Notice shall be given to the Agency by personal delivery thereof to the City of Gardena Engineer or by depositing the same in the United States mail enclosed in a sealed envelope, registered and with postage prepaid, addressed to:

Public Works Department
City of Gardena
1717 W. 162nd Street
Gardena, CA 90247-3778

Notice shall be given to the Contractor by personal delivery thereof to said Contractor or to his authorized representative at the site of the project, or by depositing the same in the United States mail, enclosed in a sealed envelope addressed to said Contractor at the address established for the conduct of the work under this Contract, postage prepaid and registered.

Notice shall be given to the Surety, or any other person, by personal delivery to said Surety or other person, or by depositing the same in the United States Mail, enclosed in a sealed envelope addressed to such Surety or persons at the address of said Surety or persons last communicated to the party giving the notice, postage prepaid and registered.

Notification of Property Owners and Tenants - The Contractor shall notify each property owner and/or tenant in the project area in writing five (5) working days prior to the start of construction. If pedestrian or vehicular access to private property is to be blocked, the Contractor shall again notify each property owner and/or tenant in writing five (5) working days prior to construction activities. The Contractor shall provide additional notices when a lapse time occurs during each phase/segment work.

The written notice shall be submitted to the Engineer for approval prior to being delivered.

6-2 PROSECUTION OF THE WORK.

6-2.1 Contractor's Responsibility for Work. Until the formal acceptance of the work by the Agency, the Contractor shall have the charge and care thereof and shall, subject to the insurance protection furnished in accordance with the Section 1-7.6 and 5-4 hereof, bear the risk of accident, loss or damage to any part thereof by action of the elements or from any other cause, whether arising from the execution or from the non-execution of the work. The Contractor shall rebuild, repair, restore and otherwise correct damages to any portion of the work occasioned by any of the above causes before its acceptance.

In case of suspension of work from any cause whatsoever, the Contractor shall be responsible for all materials and the proper temporary storage thereof.

6-3 TIME OF COMPLETION.

6-3.1 General. The contract time shall begin per the City's written notification. Work must be completed within working days specified for the project. In addition, the Contractor shall notify the City 24 hours in advance of the actual commencement of work.

No work shall be undertaken during the City's holiday closures. It is the Contractor's responsibility to determine the City's closure dates.

6-9 LIQUDATED DAMAGES. The amount of liquidated damages is hereby amended to **$1,000** for each consecutive calendar day.

SECTION 7 – MEASUREMENT AND PAYMENT

7-1 MEASUREMENT OF QUANTITIES FOR UNIT PRICE WORK.

7-1.2 Method of Measure. The quantities shown on the Bid Schedule are approximate only. The Contractor will be paid for the actual quantities of work based on approved field measurements as provided for in these Specifications. The City reserves the right to increase or decrease the amount of any item or portion of work to be performed or materials furnished, or to delete any item, in accordance with the Specifications. Additional bid item work shall be completed within the total working days in these specifications. Additional working days maybe allowed with the approval of the engineer.

7-3 PAYMENT.

7-3.2 Partial and Final Payment. The Engineer will authorize monthly partial/progress payments per Section 7-3.2 of the Standard Specifications. Contractor's monthly invoice shall be submitted on company letterhead. Each invoice submitted shall include: project name, date of invoice, progress payment number, and purchase order number. All bid items shall be included on each invoice and include unit, unit price bid, original quantity, amount, previous payment quantity and amount, current invoice payment quantity and amount, total project payment quantity and amount. In addition, any approved change orders shall be listed on invoice. Payment to Contractor typically takes 30 days from submittal of approved invoice. However, payments will be withheld pending receipt of any outstanding reports required by the Contract Documents.

7-3.3 Delivered Materials. The City will NOT honor or make any progress payments for materials ordered and delivered to the job site by the Contractor unless prior approval is obtained from the Engineer.

7-4 PAYMENT FOR EXTRA WORK.

7-4.3 EXTRA WORK. When work is performed on a "time and materials" basis, the following percentages shall be added to the Contractor's cost and shall constitute the markup for all overhead and profits:

1) Labor 20
2) Materials 15
3) Equipment Rental.....15
4) Other Items and Expenditures.....15

To the sum of the costs and markups provided for in this section, 1 percent shall be added as compensation for bonding.

When all or any part of the extra work is performed by a Subcontractor, the markup established above shall be applied to the Subcontractor's actual cost of such work. A markup of 10 percent on the first $5,000 of the subcontracted portion of the extra work and a markup of 5 percent on work added in excess of $5,000 of the subcontracted portion of the extra work may be added by the Contractor.

SECTION 8 – FACILITIES FOR AGENCY PERSONNEL

8-2 FIELD OFFICE FACILITIES. The Contractor shall provide the class of field office indicated below:

☐ Class "A" ☐ Class "B" ☐ Class "C"

In the event none of the boxes are marked above, no specific field office will be required, and the use therefor of any field office will be at the Contractor's discretion. The location of any field office shall be as provided on the plans, in these Specifications or as designated by the Engineer.

END OF GENERAL PROVISIONS

TECHNICAL PROVISIONS

ROWLEY PARK ELECTRONIC SIGN
(JN 529)

PART 1 – TECHNICAL PROVISIONS

SECTION 1 – GENERAL

PREFACE: All work and materials shall conform to the "Standard Specification for Public Works Construction", 2021 edition, except as modified by the contract and these Technical Provisions.

Incidental Work - All work and materials required by the plans and specifications, and not specifically listed in the bid schedule items of work, shall be considered incidental and no additional payment shall be made therefore. Incidental items shall include, but are not limited to, mobilization; implementation of the SWPPP and Best Management Practices for the protection of storm drain structures; adjusting utility access covers to grade; saw cutting; excavation and disposal of materials; survey; traffic control and coordination of utilities.

Temporary Construction Fencing – Install construction fencing during construction and as required by the City of Gardena for public safety.

Diversion Deposit – A $10,000 diversion deposit is required to pull the Community Development permit. The deposit will be refunded in full upon proof that at least 65% of the project waste was recycled and/or diverted. Waste Resources Management (WRG) is the only authorized hauler for the City of Gardena. You can contact them at 310 366-7600. Failure to use WRG will result in denial of the deposit refund.

PART 2 – CONSTRUCTION MATERIALS

SECTION 200 – ROCK MATERIALS

200-2. UNTREATED BASE MATERIAL

200-2.1 General. [Add the following]:

The Contractor is required to use crushed miscellaneous base unless otherwise directed by the Engineer. All processing or blending of materials to meet the grading requirement will be performed at the plant or source. The materials shall compact to a hard, firm, unyielding surface and shall remain stable when saturated with water.

The Contractor shall furnish Certified Weight Tickets for material delivered to the job site and deliver it to the Engineer or his representative before the end of the working day.

The City may hire a qualified soils engineer to perform all tests. If the material furnished by the Contractor fails any tests, the Contractor shall remove said material and shall complete the construction of the base with material acceptable to the Engineer at no extra cost to the City.

Costs for base material shall be incidental and included in the bid item of work for which it is required, and no additional payment will be allowed therefore.

SECTION 201 – CONCRETE, MORTAR, AND RELATED MATERIALS

201-1 PORTLAND CEMENT CONCRETE. [Add the following]:

In addition to the materials outlined in **Section 201-1 of the Standard Specifications,** the following materials are included under **Portland Cement Concrete** unless otherwise covered by specific bid item.

201-1.1 Requirements.

201-1.1.2 Concrete Specified by Class and Alternate Class. [Add the following]:

A. Concrete specified by alternate class will not be used.

B. Contractor shall utilize **Concrete Class 560-C-3250** for Street Surface Improvements instead of the concrete class shown in Table 201-1.1.2. all reinforced structures shall be **Class 650-CW-4000** instead of the concrete class shown in Table 201-1.1.2.

C. **Maximum Slum:** Five (5) inches for concrete containing superplastizer admixture.

201-1.2.4 Chemical Admixtures. [Add the following]:

f) **Prohibited Admixtures:** Calcium chloride, Thiocyanates or admixtures containing more than 0.05% chloride ions are not permitted.

201-1.4 Mixing.

201-1.4.1 General. [Add the following]:

Plant batched materials will be required in all cases other than those in which it would obviously prove to be impractical as determined by the Engineer, in which case hand mixing is permitted. Mixing shall be commenced as soon as possible after the cement is placed in contact with the aggregates, but in no event shall the intervening period exceed 30 minutes.

All concrete mixers shall be of such design and construction and so operated to provide a properly mixed concrete with uniform distribution of ingredients. Mixers shall be maintained properly and be in working order and not have any aluminum parts which will have direct contact with concrete.

201-2 REINFORCEMENT FOR CONCRETE.

201-2.2.1 Reinforcing Steel. [Replace with the following]:

Unless otherwise specified, reinforcing steel shall be Grade 60 (400) billet steel conforming to ASTM A615/A615M. steel bending processes shall conform to the requirements of the Manual of Standard Practice of the Concrete Reinforcing Steel Institute. Bending or straightening shall be performed in a manner that will not result in the steel being damaged. Kinked bars shall not be used.

201-3 EXPANSION JOINT FILLER AND JOINT SEALANTS. In addition to the materials outlined in **Section 201-3 of the Standard Specifications,** the following materials are included under **Expansion Joint Filler and Joint Sealants** unless otherwise covered by specific bid item.

201-3.2 Premolded Joint Filler. [Replace with the following]:

Premolded Joint Filler shall not be used.

201-3.4 Type "A" Sealant. [Add the following]:

Refer to the **Standard Specifications.** Contractor to utilize type **"A" Sealant.**

201-3.5 Type "B" Sealant. [Replace with the following]:

Type "B" Sealant shall not be used.

201-3.7 Type "D" Sealant. [Replace with the following]:

Type "D" Sealant shall not be used.

201-3.8 Type "E" Sealant. [Replace with the following]:

Type "E" Sealant shall not be used.

201-4 CONCRETE CURING MATERIALS. In addition to the materials outlined in **Section 201-4 of the Standard Specifications,** the following materials are included under **Concrete Curing Compound** unless otherwise covered by specific bid item.

201-4.1 Membrance Curing Compounds.

201-4.1.1 General. [Replace Paragraph 4 with the following]:

Type 2 shall be used.

201-7 NON-MASONRY GROUT.

201-7.2 Quick-Setting Grout. [Add the following]:

Set non-shrink grout manufactured by the **Master Builders Co.,** Upcon Construction Grout manufactured by the **Upcon Chemical Division of USM Corporation, 5-Star Grout** manufactured by the **Grout Corporation, Crystex Grout manufactured by L & M Construction Chemicals, Inc.,** or approved equal.

SECTION 203 – BITUMINOUS MATERIALS

203-6 ASPHALT CONCRETE.

203-6.4.1 Class and Grade. Asphalt hot mix shall be C2-PG64-10 for capping or finish course. Feather join edges shall be made along straight lines by hand raking out all heavy aggregates prior to rolling to produce a smooth uniform surface. Compacted edge along gutter lip shall be 3/8 inch in height.

203-11 ASPHALT RUBBER HOT MIX (ARHM).

230-11.3 Composition and Grading. Asphalt-Rubber shall be Class ARHM-GG-C, Standard Specifications Section 230-11 Wet Process and Section 302-9.

PART 3 – CONSTRUCTION METHODS

SECTION 300 - EARTHWORK

300-1 CLEARING AND GRUBBING.

300-1.1 General. [Add the following]:

Demolition and removal of existing turf, shrubs, groundcovers, weeds, rocks and excess soils (soil export) indicated on the Plans and Details. Scrape off finished grade and dispose of off-site. Execute temporary erosion and sedimentation control measures. All items noted for removal shall become the property of the Contractor unless otherwise noted.

All existing improvements, including those on private property, shall be protected in place. Any damage to and removal of these improvements shall be repaired and replaced by the Contractor at his expense.

All excavated material shall be immediately hauled away and disposed of outside the project limits. The Contractor shall be responsible for all damages and claims that may arise as a result of this disposal.

In addition to the work outlined in Section 300-1, the following items of work are included under "Clear and Grub":

A. Providing clean topsoil and grading of parkways as directed by the Engineer to restore the parkway grades.
B. Replacement of damaged pipe curb drain, as well as the coring and/or reinstatement of pipe curb drains.
C. Protection or replacement of brick banding on driveway.
D. Protection of fences adjacent to and within the public right-of-way.
E. Relocation of existing signs and warning devices (City shall provide new poles as required.)
F. Painting new and repainting existing curb markings such as yellow, blue, white, green or red curb as well as curb addresses
G. Protect existing private/public irrigation systems, and repair irrigation systems damaged during construction.
H. Protection of all existing improvements (public or private), unless shown to be removed/relocated/adjusted as part of the construction. The Contractor shall repair or replace these items if damaged with new materials equal to the original or better, as required by the Engineer.
I. Protection of all utilities, walls, fences, hedges, buildings, concrete slabs, planters, and other private or public improvements not specifically shown to be removed as part of the construction. The Contractor shall replace these items, if damaged, with new material equal to the original or better, as required by the Engineer.
J. All complaints/claims resulting from reconstruction of concrete improvements will be forwarded to the Contractor. The complaint/claim will be fully rectified or the City will repair the item and deduct that amount from progress payment.

300-1.3 Measurement. [Replace with the following]:

Clearing and Grubbing will be measured by the lump sum.

300-2 UNCLASSIFIED EXCAVATION.

300-2.1 General. [Add the following]:

Unless separately designated, unclassified excavation shall include saw cutting, excavating, loading, stockpiling, hauling, and disposing of surplus material to the depth indicated on the plans or as directed by the Engineer. All removal of asphalt concrete, base material, debris, concrete, curbs, berms, pipes, structures, foundations, fences, and all other interfering items within limits of construction shall be removed and disposed of in the legal manner and will be considered part of Unclassified Excavation.

300-4 UNCLASSIFIED FILL.

300-4.7 Compaction. [Replace with the following]:

Unless otherwise specified, each layer of unclassified fill shall be compacted to a relative compaction of at least 95 percent.

300-12.1 Asphalt Pavement Removal. The edges of asphalt pavement remaining in place shall be sawcut and shall have clean, solid vertical faces. The edges of asphalt pavement broken during construction shall be resawn and removed before surfacing material is placed at the expense of the Contractor.

All edges shall be parallel or perpendicular to curb faces except cuts around objects shall be on a curvilinear cut, a maximum 4 inches departure from the straight cut every 2 feet.

The Contractor is responsible for inspecting each location prior to submitting a bid.

Excavation in the street section adjacent to concrete replacement shall be a minimum width of 1-foot and a minimum depth of 6-inches or 1-inch greater than the existing AC section if greater than 6-inches in depth.

Remove and replace defective concrete work with new materials. Permission to patch any defective areas shall not be a waiver of the Engineer's right to require complete removal of defective work if patching does not restore quality and appearance of work.

The Contractor may stockpile sand or clean fill dirt within the street, except arterial streets, between the curb and 8-feet out, for no longer than 72 hours in any one location with prior approval by the Engineer. The Contractor shall notify the fronting residence 24 hours prior to stockpiling any material. Said stockpile shall not block the flow line of the gutter and shall be barricaded with flasher-equipped barriers. The Contractor shall ensure that the street is swept clean upon vacating the stockpile site. No excavated or removed dirt or concrete may be stockpiled in any street overnight.

The Contractor shall remove all debris and perform all cleanup work to the satisfaction of the Engineer within 3 working days after forms have been removed at any location.

Concrete removed shall be replaced within five (5) days after removal. All restorations shall be completed a maximum of five (5) days after concrete placement (i.e. backfill, grading of dirt, asphalt repave etc.) One Hundred ($100) dollars per calendar day and

location shall be charged to the Contractor for failure to comply with the above schedule as required by the Engineer.

SECTION 302 – ROADWAY SURFACING

302-5 ASPHALT CONCRETE (AC) PAVEMENT.

302-5.1 General. The Contractor shall establish designated asphalt truck routes and staging areas and shall communicate these routes and areas to truck drivers prior to the arrival at the job site. This plan must be approved by the Engineer five (5) days prior to paving.

302-5.3 Prime Coat. Prime coat shall be applied to all subgrade surfaces prior to asphalt hot mix surfacing. The prime coat shall be Grade SC-250 liquid asphalt uniformity per Green Book requirements.

302-5.4 Tack Coat. Asphalt tack coat shall be applied to all existing asphalt surfaces prior to asphalt overlay.

Existing surfaces shall be cleaned utilizing a power sweeper and free of water prior to applying PG 64-10 or SS-1h asphalt tack coat per Green Book requirements. Tack coat shall uniformly cover all areas to be paved.

302-5.5 Distribution and Spreading.

BOTTOM DUMPING OF ASPHALT PAVING SHALL NOT BE ALLOWED.

302.5.6.2 Density and Smoothness. Failed areas shall be removed and replaced at Contractor's expense.

302-5.7 Joints. COLD JOINTS SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. COLD JOINTS PLACED WITHOUT APPROVAL SHALL BE REMOVED AT THE SOLE EXPENSE OF THE CONTRACTOR.

SECTION 303 – CONCRETE AND MASONRY CONSTRUCTION

303-1.9 Surface Finishes.

303-1.9.2 Ordinary Surface Finish. [Add the following]:

Ordinary Surface Finish shall not apply to rock pockets, which in the opinion of the Engineer, are of such extent or character as to affect the strength of the structure materially or to endanger the life of the steel reinforcement. In such cases, the Engineer may declare the concrete defective and require the removal and replacement of the structure affected.

303-5.5 Finishing.

303-5.5.2 Curb. [Replace paragraph 2 with the following]:

The face and top of the curb shall then be carefully troweled to a smooth and even finish; the top being finished to a transverse slope of 1/4 inch (6 mm) toward the gutter, with both edges rounded to a radius of 1/2 inch (12.5 mm). The troweled surface shall be finished with a fine-hair broom applied parallel with the line of the work. The edge of the concrete at all expansion joints shall be rounded to a 1/4 inch (6 mm) radius.

SECTION 305 – MOBILIZATION

305-1 GENERAL

305-1.1 SUMMARY

A. Provisions of the General and Supplementary Conditions and Division 01 apply to this section.

B. Section Includes:

1. Mobilization shall consist of preparatory work and operations. It shall include, but not be limited to, the movement of personnel, equipment, materials and incidentals to the project site necessary for work on the project.

2. Mobilization also includes demobilization and any resulting clean-up effort necessary to turn over the park facility to the City of Gardena.

305-1.2 QUALITY ASSURANCE

A. Comply with Standard Specifications for Public Works Construction, current edition, as a minimum requirement.

305-2 PRODUCTS (NOT USED)

305-3.1 EXECUTION

305-3.2 WORK PREPARATIONS AND OPERATIONS

A. Mobilization shall include project overhead costs, including costs and fees for obtaining construction permits from the City of Gardena Building and Safety and/or permit riders as may be required by law, and for obtaining bonds, insurance and financing for the entire project prior to beginning work.

B. Mobilization shall include compliance with all water quality and air quality laws; furnishing all water required for the construction work; protection of utilities, trees, fences, walls, landscaping and other facilities; and the relocations as shown on the plans.

C. The Contractor is responsible for securing an adequate storage site for equipment and materials.

D. Contractor shall confine his operations and work area within the Rowley Park Property limits and Parking Lots. No encroachment into private property, into the Caltrans R.O.W. will be permitted without the prior written consent of the property owner / agency. Obtaining this consent will be the responsibility and the costs of the Contractor. Material shown on the plans or designated in the Special Provisions which is to be used in the reconstructed work and which has been damaged or destroyed as a result of the Contractor's operations shall be repaired or replaced at the option of the Engineer by the Contractor at the Contractor's sole expense.

E. The Contractor shall provide personnel to keep the construction site in a safe condition at all times, including non-working hours.

F. A Construction Schedule shall be submitted at least ten (10) working days prior to commencing work. The proposed work shall be done in phases in order to provide parking spaces for employees and visitors. The contractor shall submit a phasing plan to the City along with a schedule for review and approval. All revisions shall be completed within three days after review by the City Engineer. Requests for changes in the schedule shall be submitted by the Contractor to the City for approval at least three (3) working days prior to performing any work.

G. Mobilization shall include scheduling and phasing of the work per the requirements of the City. The Contractor shall coordinate all construction activities with the City's Parks and Public Works Departments.

H. The Contractor shall have on the work site at all times, as his agent, a competent English speaking superintendent capable of reading and thoroughly understanding the plans, specifications, and other related documents.

I. Mobilization will be considered as included on other items of work and no additional payment will be made therefor.

305-3.3 CLEANUP

A. Remove rubbish, debris and waste materials and legally dispose of off the project site. Refer to demolition notes on Demolition sheets located in the Construction Documents.

PART 4 – EXISTING IMPROVEMENTS

SECTION 400 – PROTECTION AND RESTORATION

400-2 PERMANENT SURVEY MARKERS. The Contractor shall provide all surveying to complete the project and to replace any damaged monuments, benchmarks, ties, etc. All survey work shall be performed by a Land Surveyor registered by the State of California. Work shall be laid out and constructed so as to provide smooth profiles to adjacent improvements and drainage of all surfaces.

PRIOR TO START OF CONSTRUCTION, the Surveyor shall locate and provide ties for all existing centerline monuments and centerline ties. The Surveyor shall file a corner record of these monuments and ties with the County Surveyor. A copy of these corner records shall be given to the Engineer prior to start of construction.

AFTER CONSTRUCTION, all existing survey monuments and ties lost due to construction shall be reestablished by the Surveyor. A corner record of the monuments, benchmarks, ties, etc. established or reestablished shall be filed with the County Surveyor prior to the recordation of the Notice of Completion. A copy of the recorded corner records shall be given to the Engineer prior to final payment.

SECTION 401 - REMOVAL

401-3. CONCRETE AND MASONRY IMPROVEMENTS.

401-3.2 Concrete Curb, Walk, Gutters, Cross Gutters, Curb Ramps, Driveway, and Alley Intersections. [Add the following]:

Concrete shall be removed to neatly sawed edges with saw cuts made through the entire thickness. Concrete sidewalk or driveway to be removed shall be neatly sawed in straight lines either parallel to the curb or at right angels to the alignment of the sidewalk. Removals and replacements shall be joint to joint, or as determined by the Engineer. Curb and gutter shall be sawed on a neat line at right angels to the curb face.

Concrete sidewalk construction shall include removal and disposal of existing interfering structures, tree roots, objects, soil, etc. Contractor shall remove and replace any inadequate existing base material with compacted CMB.

Any damaged utility boxes, traffic signal pull boxes, etc., shall be replaced. All boxes shall be adjusted to grade and all costs for this work shall be incidental and included in this item of work.

Concrete curb and gutter construction shall include removal and disposal of existing interfering structures, objects, soil, etc.

Curb & gutter to be replaced shall be installed at the same location as the existing on a straight grade across the limits of the replacement.

The Contractor shall regrade the area at the back of curb/gutter where the new curb/gutter is constructed at a different grade than existing curb/gutter. The graded area shall have a maximum slope of 3:1 and 2% in city parkways. Fill material, if required, for this grading shall be furnished by the Contractor. All landscaping and irrigation in the graded area shall be repaired

The Contractor shall verify, with a “smart level”, that maximum ramp and sidewalk grades do not exceed maximum grades indicated on the project plans, when marking the required saw cut removal limits and when setting the concrete forms, prior to pouring any curb access ramp locations. It shall be the Contractor’s responsibility to supervise and utilize the proper experienced personnel to ensure that the proper saw cut limits are established for all access ramp locations and the Engineer shall not be responsible to direct the Contractor’s crews or otherwise serve in this management capacity.

SECTION 402 – UTILITES

402-2 PROTECTION. The Contractor shall provide coordination with all utility companies involved and shall provide protection from damage to their facilities. The Contractor shall be responsible for repair or replacement to said facilities made necessary by its failure to provide required protection.

The Contractor shall be solely responsible to check all utility record maps, books, and/or other data in the possession of the CITY, other agencies, and/or all utility companies, and no allowance shall be made for any failure to have done so.

The Contractor shall utilize the services of “Underground Service Alert-Southern California” for utility locating in all public right-of-ways by calling 811 or 1-800-227-2600 at least 48 hours prior to any excavation.

Underground lines that are potentially hazardous such as oil company lines, natural gas mains, and electrical conduits will be carefully located by the owner as provided in the Standard Specifications. The Contractor shall take special precautions in determining the precise location

and depth of these structures and coordinate work with the utility to ensure that they will not be damaged by its operations.

PART 6 - TEMPORARY TRAFFIC CONTROL

SECTION 600 - ACCESS

600-1 GENERAL.

600-1.1 Public Convenience and Safety Access. The Contractor shall provide temporary "No Parking" and all other signs which are necessary for the safe and orderly conduct of vehicular traffic as directed by the Engineer and as specified herein. Contractor shall also provide an approval barricaded area in the parking lane for pedestrian traffic during such time as the parkway is unfit to be used for pedestrian traffic.

At such times as driveways are inaccessible due to the Contractor's work, they shall be blocked by two (2) Class II barricades or one (1) Class II barricade and two (2) delineators. Driveways that are ramped or planked for temporary access shall be provided with a barricade or delineator at each side. The Contractor shall give 24-hour notice to affected property owners prior to blocking any driveway.

The Contractor shall provide access for refuse collection on the regularly scheduled days. He shall also facilitate or assist in the collection where such work is hampered by his operations.

600-1.2 Street Closures, Detours, and Barricades. The Contractor shall not close any street within the City of Gardena without first obtaining the approval of the Engineer. Barricading, traffic control and detour diagrams in connection with street closures shall be submitted by the contractor as required by the Engineer.

The Contractor shall provide and install barricades, delineators, warning devices and construction signs in accordance with the California Manual of Temporary Traffic Controls or W.A.T.C.H. Handbook. During adverse weather or unusual traffic or working conditions additional traffic devices shall be placed as directed by the Engineer. All traffic signs and devices shall also conform to the California Manual of Temporary Traffic Controls or W.A.T.C.H. Handbook.

The Contractor shall provide and maintain Type II barricades along excavation edges parallel to the flow of traffic at a maximum spacing of twenty-five feet. Type II barricades mounted with flashers shall be installed around work areas in parkways. Type II barricades shall have alternating reflective orange and reflective white stripes at an angle of 45 degrees. The strip width shall be in accordance with Table 5-1 "Barricade Characteristics" "Manual of Traffic Controls for Construction and Maintenance Work Zones".

During paving operations, barricades may be supplemented with minimum size eighteen-inch high traffic cones and delineators such that spacing between barricades and/or cones or delineators is no greater than twenty feet. Traffic cones and delineators used within State right-of-way shall be a minimum size of twenty-eight inches high. At all access points such as intersecting streets, alleys and driveways, barricades and/or cones shall be provided at five-foot intervals so as to prevent vehicular access to the paving area. Where access from an intersecting street is prohibited, a "Road Closed" sign shall be provided at the nearest prior intersection. "No Left Turn" signs shall be provided wherever required by the Engineer.

When one-way access from a side street or alley is permitted, barricades and cones shall be provided at five-foot intervals for a distance of fifty feet on either side of the centerline of the intersecting street, or alley.

Should the Contractor fail to furnish a sufficient number of traffic and/or pedestrian safety devices, the Agency will place such necessary items and the Contractor shall be liable to the Agency for providing such devices in accordance with the following provisions:

1. For placing of barricades: $5.00 per barricade for the first day or any part thereof and $2.00 per barricade, per day, for each day thereafter or any part thereof. For flashers: $2.50 per flasher for the first day or any part thereof and $1.00 per flasher, per day, for each day thereafter or any part thereof. For traffic cones: $1.00 per cone for each day or any part thereof.

2. In the event that the services of the Agency are required between the hours of 5:00 P.M. and 8:00 A.M., during the normal week or at any time on Saturday, Sunday or a Agency holiday, there shall be an additional charge to the above set forth minimums of $188.00 for each service trip required.

Contractor shall relocate, preserve and maintain the visibility of all existing signs within the project limits which affect the flow of traffic, as directed by the Engineer. Any signs which are damaged or found to be missing during the course of construction shall be replaced by the Contractor at his expense as directed by the Engineer. All other signs that interfere with the course of work and are not necessary for the safe flow of traffic will be removed and replaced by the Agency. Traffic control signs include Stop Signs, Speed Limit, Parking Restrictions and other regulatory signs.

SECTION 601 – TEMPORARY TRAFFIC CONTROL FOR CONSRTUCTION AND MAINTENANCE WORK ZONES

601-1 GENERAL. A minimum of two (2) lanes (one lane in each direction) shall be maintained at all times for a continuous flow of traffic, except as otherwise approved by the Engineer.

Lane closures shall be allowed between 8:00a.m. and 4:00p.m. only. No traveled lane shall be closed overnight without prior City approval. Access to private property shall be maintained at all times.

"Temporary No Parking" signs shall be posted no more than 100 feet apart at least 72 hours prior to work. The signs shall be mounted on either 1” x 2” X 3’ high wood stakes, Type II barricades, or 39-inch high delineators. Signs shall not be posted on trees, traffic signal poles, utility poles, streetlights, or any other street furniture. Signs shall be professionally made of moisture-resistant, heavy duty cardboard or other approved material. "Temporary No Parking" signs shall be maintained by the contractor at all times and shall be approved by the Engineer prior to posting. Cover existing street signs as directed by the Engineer.

"Temporary No Parking" signs shall be implemented for one week only (M-F) at a time. Signs shall be removed and reposted each week as needed and approved by the City.

DURING PAVING OPERATIONS, THE CONTRACTOR SHALL PROVIDE INDIVIDUALS AND EQUIPMENT DESIGNATED TO PERFORM AND MAINTAIN TRAFFIC CONTROL ONLY. The Contractor shall furnish, place and maintain all temporary traffic control devices required for the safe and orderly flow of vehicular and pedestrian traffic during construction. All Traffic control shall conform to the California Manual of Temporary Traffic Controls (California M.U.T.C.D.) or Work Area Traffic Control Handbook (W.A.T.C.H. Handbook).

If traffic control measures are not in conformance with these provisions, the project shall be stopped until conformance is attained to the satisfaction of the Engineer.

At locations where excavations are left open overnight, flashing barricades shall be placed along the excavation at a maximum spacing of 20 feet. A minimum of 3 flashing barricades shall be placed at any one excavation.

Temporary striping will be permitted only on base course and pavement to be overlaid. Temporary pavement markings to be placed on new asphalt shall be spaced at 25 ft maximum and shall be removable without damage to the new overlay. Method of temporary markings shall be submitted to the Engineer for approval at the preconstruction meeting.

The Contractor shall submit and obtain written approval of traffic control plans from the Engineer five (5) working days prior to implementing.

Temporary lane closures shall be allowed during working hours specified in these Technical Provisions. Temporary lane closures maintained beyond the normal working hours may have a negative economic effect on the local residential, commercial/industrial business, and traveling public. Unless the Contractor secures prior written approval from the Engineer to maintain temporary lane closures beyond the working hours allowed, the Engineer may deduct a fee from a progress payment or bond for each temporary lane closure maintained beyond the allowed working hours. The fee will be accessed at a rate of Five Hundred ($500) per each travel lane per each thirty (30) minute interval, or fraction thereof as required by the Engineer. In no event will work be allowed past 5 p.m.

PART 8 – LANDSCAPING AND IRRIGATION

SECTION 801 – INSTALLATION

801-4 PLANTING.

801-4.5 Tree and Shrub Planting. Tree species shall be 24” box (species as noted). Payment for this item shall include the following:

A. All material and work for planting of the tree.
B. One-year maintenance period. If a tree requires replacement within the on year maintenance period, the new tree shall also have a one year maintenance period from the date of acceptance.

Note: Provide photos of actual trees with measurements prior to acceptance and delivery. Trees shall be brought to the job site for final approval prior to planting. Rejected trees shall be removed from the job site immediately.

All trees shall receive root barrier a minimum 24” deep and a minimum of 15’ in length along paving. All trees and shrubs shall be planted per landscape details.

All soil shall be removed to a depth as indicated on the Plans and replaced with amended planting mix. Refer to planting notes on the Plan.

801-6 MAINTENANCE AND PLANT ESTABLISHMENT. Maintenance period shall be one year and shall commence after work has been completed and approved by the City of Gardena Council.

All trees shall be guaranteed by the contractor for the maintenance period. Contractor liability shall cover cost of labor, equipment and materials to replace trees of similar size during the covered period.

END OF GENERAL TECHNICAL PROVISIONS

ELECTRICAL SPECIFICATIONS

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ELECTRICAL AND LIGHTING CSI TECHNICAL PROVISIONS

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SECTION 26 00 10 - BASIC ELECTRICAL REQUIREMENTS

PART 1 - GENERAL

1.1 SCOPE

A. This section supplements all sections of this division and shall apply to all phases of work hereinafter specified, shown on the drawings, or required to provide a complete installation of electrical systems for the Project. The work required under this division is not limited to the electrical specifications and drawings. Refer to all bid documents including Civil, Architectural, Structural, and Mechanical documents which may designate Work to be accomplished. The intent of the Specifications is to provide a complete and operable electrical system, which shall include all documents that are a part of the entire Project Contract.

1. Work included: Furnish all labor, material, tools, equipment, facilities, transportation, skilled supervision necessary for, and incidental to, performing operations in connection with furnishing, delivery, and installation of the work in this division complete as shown or noted on the Drawings and specified herein.

B. Related Work Specified Elsewhere:

1. Refer to all sections in the general contract conditions, Contract Requirements and Division 1, General Requirements.

C. Work Installed but Furnished by Others:

1. The electrical work includes the installation or connection of certain materials and equipment furnished by others. Verify installation details. Foundations for apparatus and equipment will be furnished by others unless otherwise noted or detailed.

1.2 GENERAL REQUIREMENTS

A. Guarantee See General Conditions:

1. Except as may be specified under other Sections in the specification, guarantee equipment furnished under the specifications for a period of one year, except for equipment required to have a longer guarantee period, from date of final completion. Guarantee all work against defective workmanship, material, and improper installation. Upon notification of failure, correct deficiency immediately and without additional cost to the Owner.

2. Standard warranty of manufacturer shall apply for replacement of parts after expiration of the above period. Manufacturer shall furnish replacement parts to the Owner or his service agency as approved. Furnish to the Owner, through the Architect, printed manufacturer's warranties complete with material included and expiration dates, upon completion of project. Conform to Division 01.

B. Equipment Safety: All electrical materials and equipment shall be new and shall be listed by Underwriter's Laboratories and bear their label, or listed and certified by a

nationally recognized testing authority where UL does not have an approval. Custom made equipment must have complete test data submitted by the manufacturer attesting to its safety.

C. Codes and Regulations:

1. Design, manufacturer, testing and method of installation of all apparatus and materials furnished under the requirements of these specifications shall conform to the latest publications or standard rules of the following:

    a. Institute of Electrical and Electronic Engineers - IEEE

    b. National Electrical Manufacturers' Association - NEMA

    c. Underwriters' Laboratories, Inc. - UL

    d. National Fire Protection Association - NFPA

    e. American Society for Testing and Materials - ASTM

    f. American National Standards Institute - ANSI

    g. California Electrical Code - CEC, Title 24, Part 3

    h. California Code of Regulations, Title 8, Subchapter 5

    i. California Building Code-CBC, Title 24 Parts 1 &2

    j. State & Municipal Codes in Force in the Specific Project Area

    k. Occupational Safety & Health Administration - OSHA

    l. California State Fire Marshal

    m. California Fire Code- CFC, Title 24 Part 9

    n. National Electrical Testing Association - NETA

2. The term "Code", when used within the specifications, shall refer to the Publications, Standards, ordinances and codes, listed above. In the case where the codes have different levels of requirements the most stringent rules shall apply.

D. Requirements of Regulatory Agencies:

1. Codes, Permits, and Fees: Where the Contract Documents exceed minimum requirements, the Contract Documents take precedence. Where code conflicts occur, the most stringent shall apply. The most stringent condition shall be as interpreted by the Engineer.

    a. Comply with all requirements for permits, licenses, fees and Code. Permits, licenses, fees, inspections and arrangements required for the Contractor at his expense shall obtain the Work, unless otherwise specified.

b. Comply with the requirements of the applicable utility companies serving the Project. Make all arrangements with the utility companies for proper coordination of the Work.

E. Shop Drawings:

1. See Division 01 for additional requirements.

2. Time Schedules for Submission and Ordering: The Contractor shall prepare, review and coordinate his schedule of submissions carefully, determining the necessary lead time for preparing, submitting, checking, ordering and delivery of materials and equipment for timely arrival. The Contractor shall be responsible for conformance with the overall construction schedule.

3. Submittals will be checked for general compliance with specifications only. The Contractor shall be responsible for deviations from the drawings or specifications and for errors or omissions of any sort in submittals.

4. Submit a complete list of materials and equipment proposed for the job, including manufacturers names and catalog numbers.

5. Shop drawings shall be submitted in completed groups of materials (i.e., lighting fixtures or switchgear). The Contractor shall add and sign the following paragraph on equipment and materials submitted for review. "It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into the project; is in compliance with the Contract Drawings and specifications and can be installed in the allocated spaces". Failure to add the above written statement for compliance will result in return of submittals without review.

   a. Bind catalog cuts, plate numbers, descriptive bulletins and drawings, 11" x 17" (275 mm x 435 mm) or smaller, in sets with covers neatly showing titles.

   b. The Contractor shall verify dimensions of equipment and be satisfied as to Code compliance for fit prior to submitting shop drawings for approval.

   c. Where current limiting devices are specified, submit technical data to substantiate adequate protection of equipment cascaded downstream. Submittals shall not be reviewed unless supporting calculations and data are submitted therewith.

   d. Include complete catalog information such as construction, ratings, insulation systems, as applicable.

   e. For any material specified to meet UL or trade standards, furnish the manufacturers or vendor's certification that the material furnished for the work does in fact equal or exceed such specifications.

   f. Reference listings to the specifications' Sections and Article to which each is applicable.

g. Equipment Floor Plans: After approval of material is secured prepare a floor plan of each electrical and communication equipment space, room or yard, drawn to scale at 1/2 inch equals 1 foot and submit for approval in the same manner as for shop drawings. The layout drawings shall be exact scale.

6. Contractor shall prepare coordinated drawings when required by Division 01 or where noted otherwise.

F. Interpretations: The Contractor through the Architect must make Requests for interpretations of drawings and specifications. Any such requests made by equipment manufacturers or suppliers will be referred to the Contractor.

G. Standard of Quality

1. The contract Drawings and Specifications establish the “MINIMUM STANDARD OF QUALITY” each product and/or system must meet to be considered acceptable. Products of other manufactures will be considered if the product and/or system meet or exceed the “MINIMUM STANDARD OF QUALITY” established by this Contract Document.

2. Items for similar application shall be of the same manufacturer.

3. The label of listing by UL shall appear on all materials and equipment for which standards have been established by the agency.

4. Where codes as listed in Section General Requirement Section of the Specifications that establish label or approved requirements, furnish all materials and equipment with either the required labels affixed or the necessary written approval.

5. Provide the type and quantity of electrical materials and equipment necessary to complete Work and all systems in operation, tested and ready for use.

6. Provide and install all incidental items that belong to the Work described and which are required for complete systems.

7. All switchboards, distribution boards, panel boards and circuit breakers shall be of the same manufacturer.

8. All wiring devices such as switches and receptacles shall be of the same manufacturer.

H. Substitutions: Refer to Division 01

I. Submit comprehensive material list, shop drawings and complete technical data for the following equipment and materials:

1. General Requirements:

a. Main service and distribution switchboards.

b. Panelboards.

c. Conduits

d. Conductors, include all selected insulation types.

e. Fuses

f. Disconnect switches and Starters.

g. Pullboxes, manholes and handholes.

h. Standard lighting fixtures, specially fabricated fixtures, ballasts and lamps, with samples and sample of standard finish available (where requested).

i. Control devices, standard and special receptacles, switches, outlets and finish device plates.

j. Cabinets for signal and telephone system, special terminals and cabinets. Include all cabinet dimensions.

k. Fire alarm system.

l. Transformers

J. Record Drawings: Refer to Division 01, Contract Closeout.

K. Work Responsibilities:

1. The drawings indicate diagrammatically the desired locations or arrangement of conduit runs, outlets, junction boxes and equipment and are to be followed. Execute the work so as to secure the best possible installation in the available space and to overcome local difficulties due to space limitations. The Contractor is responsible for the correct placing of his work. Where conflicts occur in plans and/or specifications, the most stringent application shall apply and shall be part of the base bid.

2. Locations shown on architectural plan or on wall elevations shall take precedence over electrical plan locations, but where a major conflict is evident, notify the Architect.

3. In the event minor changes in the indicated locations or arrangement are necessary due to developed conditions in the building construction or rearrangement of furnishings or equipment or due to interference with other trades, such changes shall be made without extra cost.

4. Verify dimensions and the correct location of Owner-Furnished equipment before proceeding with the roughing-in of connections.

5. All scaled and figured dimensions are approximate of typical equipment of the class indicated. Before proceeding with work carefully check and verify dimensions and sizes with the drawings to see that the furnished equipment will fit into the spaces provided without violation of applicable Codes.

6. Should any changes to the work indicated on the drawings or described in the specifications be necessary in order to comply with the above requirements, notify the Architect.

7. Contractor shall be responsible for coordination of coordinated drawings when required by the Architect.

8. Replace or repair, without additional compensation any work which does not comply with or which is installed in violation of any of these requirements.

L. Installation General: For special requirements, refer to specific equipment under these requirements.

1. Unless otherwise specified elsewhere in the specifications, do all excavating necessary for the proper installation of the electrical work.

2. Locations of Openings: Locate chases, shafts and openings required for the installation of the electrical work during framing of the structure. Do any additional cutting and patching required. Cutting or drilling in any structural member is prohibited without approval of the Architect. Furnish all access panels to make all boxes, connections and devices accessible as required by CEC.

3. Location of Sleeves: Where conduits pass through concrete walls, suspended slabs or metal deck floors, install sleeves of adequate size to permit installation of conduit. Sleeves shall be installed prior to pouring of concrete and shall have ends flush with the wall or extend 2 inches above floor surfaces. Verify locations.

4. Wherever conduit extends through roof, install flashings in accordance with drawings and details.

5. Contractor shall be responsible for cutting and patching which may be required for the proper installation of the electrical work.

6. Protect work, materials and equipment and provide adequate and proper storage facilities during the progress of the work. Storage outdoors shall be weather protected and shall include space heaters to prevent condensation. Provide for the safety and good condition of all work until final acceptance of the work.
   Replace all damaged or defective work, materials and equipment before requesting final acceptance.

7. Conduit and Equipment to be Installed: Clean thoroughly to remove plaster, spattered paint, cement and dirt on both exterior and interior. All underground conduits shall be mandrelled prior to pulling wire.

8. Conduit and Equipment to be Painted: Clean conduit exposed to view in completed structure by removing plaster and dirt. Remove grease, oil and similar material from conduit and equipment by wiping with clean rags and suitable solvents in preparation for paint.

9. Items with Factory Finish: Remove cement, plaster, grease and oil, and leave surfaces, including cracks and corners, clean and polished. Touch up scratched or bare spots to match finish.

10. Site Cleaning: Remove from site all packing cartons, scrap materials and other rubbish on a weekly basis. Vacuum out all cabinets, switchgear and panels and junction boxes prior to pulling any conductors.

11. Electrical equipment and materials exposed to public and in finished areas shall be finish-painted after installation in accordance with the Painting Section. All exposed screw-type fasteners, exterior, or interior in restrooms, shall be vandal-resistant spanner type; include tool.

M. Excavation, Cutting and Patching:

1. Excavating, trenching and backfilling required for the work of this Division in accordance with the applicable requirements of Division 2. Excavating and backfilling connected with electrical work, repaving cuts and providing and maintaining protective measures for the electrical work excavation required by the governing authorities having jurisdiction shall be performed as a part of the work of this Division.

2. Verify openings indicated on the drawings. Provide all cutting, patching and reinforcement of the construction of the building as required to install electrical work.

N. Tests

1. Equipment and systems for which the National Electrical Testing Association (NETA) has an approved or recommended procedure, shall be tested in accordance with that procedure. Test values shall equal values recommended by NETA. Copies of test reports shall be submitted as required under shop drawing submittals.

2. Resistance to ground tests shall be accomplished by a qualified independent testing firm to measure resistance to ground at grounding electrodes. Make tests before slabs or affected areas are poured in order that corrective measures, if required, may be taken. Submit a report showing the results of these measurements. If the resistances exceed values specified elsewhere or NETA test procedure recommendations, perform corrective measures required to reduce resistance to acceptable values.

3. Prior to energizing any motor, measure the service voltage for phase balance and report if unbalance exceeds 1% from mean.

4. Measure the three-phase voltage at no load and at maximum load conditions and submit to the engineer a report showing the results of these measurements.

5. Upon completion of the work and adjustment of all equipment, conduct an operating test. Conduct the test in the presence of an authorized representative of the Owner's Representative. Demonstrate system and equipment to operate in

accordance with requirements of the Contract Documents and to be free from electrical and mechanical defects. Provide systems free from short circuits and grounds and show an insulation resistance between phase conductors and ground not less than the requirements of the governing electric code. Test circuits for proper neutral connection.

6. Complete tests prior to final inspection of project, including corrective work based on the results of the tests.

7. Perform special tests on systems and equipment as specified herein using personnel qualified to perform such tests.

O. Protection: Protect finish parts of the materials and equipment against damage during the progress of the work and until final completion and acceptance. Cover materials and equipment in storage and during construction in such a manner that no finished surfaces will be damaged or marred. Keep moving parts clean, dry and lubricated.

P. Cleaning Up:

1. Upon completion of the work and at various time during the progress of the work, remove from the building all surplus materials, rubbish and debris resulting from the work of this Division.

2. Thoroughly clean switchgear including busses, apparatus, exposed conduit, metal work including the exterior and interior, and accessories for the work of this Division, of cement, plaster and other deleterious materials; remove grease and oil spots with cleaning solvent; carefully wipe surfaces and scrape cracks and corners clean.

3. Thoroughly polish chromium or plated work. Remove dirt and stains from lighting fixtures.

4. Leave the entire installation in a clean condition.

Q. Completion:

1. The work will not be reviewed for final acceptance until operating and maintenance data, manufacturer's literature, panel directories and nameplates specified herein have been approved and properly posted or installed and final cleaning of equipment and premises has been completed.

2. When the installation is complete and adjustments have been made, operate the system for a period of one week, during which time demonstrate that systems are completed and operating in conformance with the specifications.

R. Operating and Maintenance Data: Submit complete and at one time, prior to acceptance of the installation, 4 copies of manufacturer's instructions for operation and maintenance of electrical equipment, including replacement parts lists. As specified in Division 01

S. Inspection and Acceptance Procedures: The Architect will submit observation reports periodically during the construction phase detailing Contract deficiencies. The Contractor is responsible for making corrections immediately. Notice of Completion of the project will not be made until all items have been corrected.

T. Final Completion of Electrical Systems:

1. Prior to Final Completion of operating electrical systems, the Contractor shall:

    a. Provide materials of the type and quality specified and as necessary for proper operation, tested and ready for use.

    b. Furnish the required Operating and Maintenance Data/Manuals.

    c. Clean up of the project pertaining to this Division of the work.

    d. After installation has been completed and adjustments made, operate the system for a period of one week, during which time, demonstrate to the Architect that systems are complete and operating in conformance with Contract Documents.

    e. Conduct tests required and as specified in this Division and submit test reports and corrective actions taken.

    f. Submission of warranties and guarantees.

2. Final Completion of Work Shall be Contingent On:

    a. Contractor replacing defective materials and workmanship.

    b. Upon completion of work and adjustments made, Contractor shall conduct an operating test for each system for approval at such time as Architect directs. Conduct test in presence of authorized representative of Architect and demonstrate that systems and equipment do operate in accordance with requirements of the Contract Documents and are free from electrical and mechanical defects.

    c. Contractor shall provide the necessary training programs and instructions to the Owner's representative. Number of hours shall be a minimum of four (4) hours for each system or days as required under separate Sections of these Specifications. Complete operation and maintenance manuals shall be provided at least two (2) weeks prior to training.

    d. Submit copies of manufacturer's instructions and maintenance of electrical equipment including replacement parts lists. Each set shall include one set of shop drawings of equipment installed.

U. Submittals for Change Orders: When changes are made during the construction phase, deletions and additions shall be presented in a manner that will indicate the cost of each item of material and corresponding labor. Markup shall be then added in accordance with the requirements of the General Conditions as modified by the Supplementary Conditions.

V. The Contractor at a time convenient to the Owner shall provide instruction to the Owner's operating personnel in the proper operation and maintenance of all equipment and systems. The instructors shall have received factory training and shall be thoroughly familiar with the equipment installed. The operating personnel shall receive the number of days instruction as indicated in other sections.

1.3 PROJECT RECORD DOCUMENTS

A. Record Drawings: CAD: Use a computer aided drafting (CAD) system in the preparation of record drawings for this Project. Acceptable CAD systems shall be capable of producing files in AutoCAD Version 2004 compatible DWG or DXF format. Owner's consultant will furnish CAD backgrounds for use by the Contractor after construction is 85% complete except where prohibited by Contract.

B. Record Set During the Work: At site, maintain at least one set of Drawings as a Field Record Set. Also maintain at least one copy of all Addenda, Modifications, approved submittals, correspondence, and transmittals at site. Keep Drawings and data in good order and readily available to Architect and Owner.

C. Changes: Clearly and correctly mark Record Drawings to show changes made during the construction process at the time the changed work is installed. No such changes shall be made in the work unless authorized by the Architect.

D. Final Record Drawings: Conform to Division 01 requirements.

E. Preparation of Final Record Drawings: Contractor shall transfer recorded changes in the work indicated on the Field Record Set to the record set. Changes shall be neatly and clearly drawn and noted by skilled draftsmen, and shown technically correct.

F. Approval: Prior to Architect's inspection for Substantial Completion, submit the Final Record Drawings to the Architect for review, and make such revisions as may be necessary for Final Record Drawings to be a true, complete, and accurate record of the work.

G. Manuals: Obtain data from the various manufacturers and submit instruction, operation, and maintenance manuals as required and to the extent required under other Sections.

H. At all times when the work is in progress, maintain at the workplace, fabrication shop or Project Site as applies, a complete separate, clean, undamaged set of the latest stamped, actioned submittals. As work progresses, maintain records of "as installed" conditions on this set in suitable ink or chemical fluid. Update the set daily. After successful completion of Project Site testing specified herein, and after completion of Punch List corrections, copy all records of "as installed" conditions on to originals.

I. Quantity:

1. Review sets:As for Shop and Field Drawings.

2. Record set:Refer to Division 01.

J. Content: All drawings required under "Field and Shop Drawings". Show "as installed" condition. Where room designations according to Project permanent signage differ from construction designations in the Contract Documents, show both designations.

K. Warranty Certificates: Comply with Division 01.

END OF SECTION

SECTION 26 05 19 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

PART 1 GENERAL

4.1 SECTION INCLUDES

A. Single conductor building wire.

B. Wiring connectors.

C. Electrical tape.

D. Heat shrink tubing.

E. Wire pulling lubricant.

F. Cable ties.

4.2 RELATED REQUIREMENTS

A. Section 26 05 53 - Identification for Electrical Systems: Identification products and requirements.

4.3 REFERENCE STANDARDS

A. ASTM B3 - Standard Specification for Soft or Annealed Copper Wire 2013 (Reapproved 2018).

B. ASTM B8 - Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft 2011 (Reapproved 2017).

C. ASTM B33 - Standard Specification for Tin-Coated Soft or Annealed Copper Wire for Electrical Purposes 2010, with Editorial Revision (2020).

D. ASTM B787/B787M - Standard Specification for 19 Wire Combination Unilay-Stranded Copper Conductors for Subsequent Insulation 2004 (Reapproved 2020).

E. ASTM D3005 - Standard Specification for Low-Temperature Resistant Vinyl Chloride Plastic Pressure-Sensitive Electrical Insulating Tape 2017.

F. ASTM D4388 - Standard Specification for Nonmetallic Semi-Conducting and Electrically Insulating Rubber Tapes 2013.

G. NECA 1 - Standard for Good Workmanship in Electrical Construction 2015.

H. NEMA WC 70 - Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy 2009.

I. NETA ATS - Acceptance Testing Specifications for Electrical Power Equipment and Systems 2017.

J. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

K. UL 44 - Thermoset-Insulated Wires and Cables Current Edition, Including All Revisions.

L. UL 83 - Thermoplastic-Insulated Wires and Cables Current Edition, Including All Revisions.

M. UL 486A-486B - Wire Connectors Current Edition, Including All Revisions.

N. UL 486C - Splicing Wire Connectors Current Edition, Including All Revisions.

O. UL 486D - Sealed Wire Connector Systems Current Edition, Including All Revisions.

P. UL 510 - Polyvinyl Chloride, Polyethylene, and Rubber Insulating Tape Current Edition, Including All Revisions.

4.4 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Coordinate sizes of raceways, boxes, and equipment enclosures installed under other sections with the actual conductors to be installed, including adjustments for conductor sizes increased for voltage drop.

2. Coordinate with electrical equipment installed under other sections to provide terminations suitable for use with the conductors to be installed.

3. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

4.5 SUBMITTALS

A. Product Data: Provide manufacturer's standard catalog pages and data sheets for conductors and cables, including detailed information on materials, construction, ratings, listings, and available sizes, configurations, and stranding.

B. Project Record Documents: Record actual installed circuiting arrangements. Record actual routing for underground circuits.

4.6 QUALITY ASSURANCE

A. Conform to requirements of NFPA 70.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

4.7 DELIVERY, STORAGE, AND HANDLING

A. Receive, inspect, handle, and store conductors and cables in accordance with manufacturer's instructions.

PART 2 PRODUCTS

5.1 CONDUCTOR AND CABLE APPLICATIONS

A. Do not use conductors and cables for applications other than as permitted by NFPA 70 and product listing.

B. Provide single conductor building wire installed in suitable raceway unless otherwise indicated, permitted, or required.

C. Nonmetallic-sheathed cable is not permitted.

D. Underground feeder and branch-circuit cable is not permitted.

E. Service entrance cable is not permitted.

F. Armored cable is not permitted.

G. Metal-clad cable is not permitted.

5.2 CONDUCTOR AND CABLE GENERAL REQUIREMENTS

A. Provide products that comply with requirements of NFPA 70.

B. Provide products listed, classified, and labeled as suitable for the purpose intended.

C. Provide new conductors and cables manufactured not more than one year prior to installation.

D. Unless specifically indicated to be excluded, provide all required conduit, boxes, wiring, connectors, etc. as required for a complete operating system.

E. Comply with NEMA WC 70.

F. Thermoplastic-Insulated Conductors and Cables: Listed and labeled as complying with UL 83.

G. Thermoset-Insulated Conductors and Cables: Listed and labeled as complying with UL 44.

H. Conductor Material:

1. Provide copper conductors only. Aluminum conductors are not acceptable for this project. Conductor sizes indicated are based on copper.

2. Copper Conductors: Soft drawn annealed, 98 percent conductivity, uncoated copper conductors complying with ASTM B3, ASTM B8, or ASTM B787/B787M unless otherwise indicated.

3. Tinned Copper Conductors: Comply with ASTM B33.

I. Minimum Conductor Size:

1. Branch Circuits: 12 AWG.

a. Exceptions:

1) 20 A, 120 V circuits longer than 75 feet (23 m): 10 AWG, for voltage drop.

2) 20 A, 120 V circuits longer than 150 feet (46 m): 8 AWG, for voltage drop.

3) 20 A, 277 V circuits longer than 150 feet (46 m): 10 AWG, for voltage drop.

2. Control Circuits: 14 AWG.

J. Conductor Color Coding:

1. Color code conductors as indicated unless otherwise required by the authority having jurisdiction. Maintain consistent color coding throughout project.

2. Color Coding Method: Integrally colored insulation.

a. Conductors size 4 AWG and larger may have black insulation color coded using vinyl color coding electrical tape.

3. Color Code:

a. 480Y/277 V, 3 Phase, 4 Wire System:

1) Phase A: Brown.

2) Phase B: Orange.

3) Phase C: Yellow.

4) Neutral/Grounded: Gray.

b. 208Y/120 V, 3 Phase, 4 Wire System:

1) Phase A: Black.

2) Phase B: Red.

3) Phase C: Blue.

4) Neutral/Grounded: White.

c. Equipment Ground, All Systems: Green.

5.3 SINGLE CONDUCTOR BUILDING WIRE

A. Manufacturers:

1. Copper Building Wire:

a. Cerro Wire LLC: www.cerrowire.com/#sle.

b. Encore Wire Corporation: www.encorewire.com/#sle.

c. Southwire Company: www.southwire.com/#sle.

d. Rome Wire and Cable.

e. Okonite Wire

f. Pirelli Wire and Cable

g. Carol Cable

B. Description: Single conductor insulated wire.

C. Conductor Stranding:

1. Feeders and Branch Circuits:

a. Size 10 AWG and Smaller: Solid.

b. Size 8 AWG and Larger: Stranded.

D. Insulation Voltage Rating: 600 V.

E. Insulation:

1. Copper Building Wire: Type THHN/THWN or THHN/THWN-2, except as indicated below.

    a. Size 4 AWG and Larger: Type XHHW-2.

    b. Installed Underground: Type XHHW-2.

5.4 WIRING CONNECTORS

A. Description: Wiring connectors appropriate for the application, suitable for use with the conductors to be connected, and listed as complying with UL 486A-486B or UL 486C as applicable.

B. Wiring Connectors for Splices and Taps:

1. Copper Conductors Size 8 AWG and Smaller: Use twist-on insulated spring connectors.

2. Copper Conductors Size 6 AWG and Larger: Use mechanical connectors or compression connectors.

C. Wiring Connectors for Terminations:

1. Provide terminal lugs for connecting conductors to equipment furnished with terminations designed for terminal lugs.

2. Provide compression adapters for connecting conductors to equipment furnished with mechanical lugs when only compression connectors are specified.

3. Where over-sized conductors are larger than the equipment terminations can accommodate, provide connectors suitable for reducing to appropriate size, but not less than required for the rating of the overcurrent protective device.

4. Copper Conductors Size 8 AWG and Larger: Use mechanical connectors or compression connectors where connectors are required.

D. Do not use insulation-piercing or insulation-displacement connectors designed for use with conductors without stripping insulation.

E. Do not use push-in wire connectors as a substitute for twist-on insulated spring connectors.

F. Twist-on Insulated Spring Connectors: Rated 600 V, 221 degrees F (105 degrees C) for standard applications and 302 degrees F (150 degrees C) for high temperature applications; pre-filled with sealant and listed as complying with UL 486D for damp and wet locations.

G. Mechanical Connectors: Provide bolted type or set-screw type.

H. Compression Connectors: Provide circumferential type or hex type crimp configuration.

5.5 WIRING ACCESSORIES

A. Electrical Tape:

1. Vinyl Color Coding Electrical Tape: Integrally colored to match color code indicated; listed as complying with UL 510; minimum thickness of 7 mil (0.18 mm); resistant to abrasion, corrosion, and sunlight; suitable for continuous temperature environment up to 221 degrees F (105 degrees C).

2. Vinyl Insulating Electrical Tape: Complying with ASTM D3005 and listed as complying with UL 510; minimum thickness of 7 mil (0.18 mm); resistant to abrasion, corrosion, and sunlight; conformable for application down to 0 degrees F (-18 degrees C) and suitable for continuous temperature environment up to 221 degrees F (105 degrees C).

3. Rubber Splicing Electrical Tape: Ethylene Propylene Rubber (EPR) tape, complying with ASTM D4388; minimum thickness of 30 mil (0.76 mm); suitable for continuous temperature environment up to 194 degrees F (90 degrees C) and short-term 266 degrees F (130 degrees C) overload service.

4. Electrical Filler Tape: Rubber-based insulating moldable putty, minimum thickness of 125 mil (3.2 mm); suitable for continuous temperature environment up to 176 degrees F (80 degrees C).

5. Moisture Sealing Electrical Tape: Insulating mastic compound laminated to flexible, all-weather vinyl backing; minimum thickness of 90 mil (2.3 mm).

B. Heat Shrink Tubing: Heavy-wall, split-resistant, with factory-applied adhesive; rated 600 V; suitable for direct burial applications; listed as complying with UL 486D.

C. Wire Pulling Lubricant: Listed; suitable for use with the conductors or cables to be installed and suitable for use at the installation temperature.

D. Cable Ties: Material and tensile strength rating suitable for application.

PART 3 EXECUTION

6.1 EXAMINATION

A. Verify that interior of building has been protected from weather.

B. Verify that work likely to damage wire and cable has been completed.

C. Verify that raceways, boxes, and equipment enclosures are installed and are properly sized to accommodate conductors and cables in accordance with NFPA 70.

D. Verify that field measurements are as indicated.

E. Verify that conditions are satisfactory for installation prior to starting work.

6.2 PREPARATION

A. Clean raceways thoroughly to remove foreign materials before installing conductors and cables.

6.3 INSTALLATION

A. Circuiting Requirements:

1. Unless dimensioned, circuit routing indicated is diagrammatic.

2. When circuit destination is indicated without specific routing, determine exact routing required.

3. Arrange circuiting to minimize splices.

4. Include circuit lengths required to install connected devices within 10 ft (3.0 m) of location indicated.

5. Circuiting Adjustments: Unless otherwise indicated, when branch circuits are indicated as separate, combining them together in a single raceway is not permitted.

6. Common Neutrals: Unless otherwise indicated, sharing of neutral/grounded conductors among single phase branch circuits of different phases installed in the same raceway is not permitted. Provide dedicated neutral/grounded conductor for each individual branch circuit.

B. Install products in accordance with manufacturer's instructions.

C. Perform work in accordance with NECA 1 (general workmanship).

D. Installation in Raceway:

1. Tape ends of conductors and cables to prevent infiltration of moisture and other contaminants.

2. Pull all conductors and cables together into raceway at same time.

3. Do not damage conductors and cables or exceed manufacturer's recommended maximum pulling tension and sidewall pressure.

4. Use suitable wire pulling lubricant where necessary, except when lubricant is not recommended by the manufacturer.

E. Paralleled Conductors: Install conductors of the same length and terminate in the same manner.

F. Secure and support conductors and cables in accordance with NFPA 70 using suitable supports and methods approved by the authority having jurisdiction. Provide independent support from building structure. Do not provide support from raceways, piping, ductwork, or other systems.

1. Installation Above Suspended Ceilings: Do not provide support from ceiling support system. Do not provide support from ceiling grid or allow conductors and cables to lay on ceiling tiles.

2. Installation in Vertical Raceways: Provide supports where vertical rise exceeds permissible limits.

G. Install conductors with a minimum of 12 inches (300 mm) of slack at each outlet.

H. Where conductors are installed in enclosures for future termination by others, provide a minimum of 5 feet (1.5 m) of slack.

I. Neatly train and bundle conductors inside boxes, wireways, panelboards and other equipment enclosures.

J. Group or otherwise identify neutral/grounded conductors with associated ungrounded conductors inside enclosures in accordance with NFPA 70.

K. Make wiring connections using specified wiring connectors.

1. Make splices and taps only in accessible boxes. Do not pull splices into raceways or make splices in conduit bodies or wiring gutters.

2. Remove appropriate amount of conductor insulation for making connections without cutting, nicking or damaging conductors.

3. Do not remove conductor strands to facilitate insertion into connector.

4. Clean contact surfaces on conductors and connectors to suitable remove corrosion, oxides, and other contaminates. Do not use wire brush on plated connector surfaces.

5. Mechanical Connectors: Secure connections according to manufacturer's recommended torque settings.

6. Compression Connectors: Secure connections using manufacturer's recommended tools and dies.

L. Insulate splices and taps that are made with uninsulated connectors using methods suitable for the application, with insulation and mechanical strength at least equivalent to unspliced conductors.

1. Dry Locations: Use insulating covers specifically designed for the connectors, electrical tape, or heat shrink tubing.

    a. For taped connections, first apply adequate amount of rubber splicing electrical tape or electrical filler tape, followed by outer covering of vinyl insulating electrical tape.

2. Damp Locations: Use insulating covers specifically designed for the connectors, electrical tape, or heat shrink tubing.

a. For connections with insulating covers, apply outer covering of moisture sealing electrical tape.

b. For taped connections, follow same procedure as for dry locations but apply outer covering of moisture sealing electrical tape.

3. Wet Locations: Use heat shrink tubing.

M. Insulate ends of spare conductors using vinyl insulating electrical tape.

N. Field-Applied Color Coding: Where vinyl color coding electrical tape is used in lieu of integrally colored insulation as permitted in Part 2 under "Color Coding", apply half overlapping turns of tape at each termination and at each location conductors are accessible.

O. Identify conductors and cables in accordance with Section 26 05 53.

P. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section Firestopping.

Q. Unless specifically indicated to be excluded, provide final connections to all equipment and devices, including those furnished by others, as required for a complete operating system.

6.4 FIELD QUALITY CONTROL

A. Inspect and test in accordance with NETA ATS, except Section 4.

B. Perform inspections and tests listed in NETA ATS, Section 7.3.2. The insulation resistance test is required for all conductors. The resistance test for parallel conductors listed as optional is not required.

C. Correct deficiencies and replace damaged or defective conductors and cables.

END OF SECTION

SECTION 26 05 26 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

7.1 SECTION INCLUDES

A. Grounding and bonding requirements.

B. Conductors for grounding and bonding.

C. Connectors for grounding and bonding.

7.2 REFERENCE STANDARDS

A. IEEE 81 - IEEE Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Grounding System 2012.

B. NECA 1 - Standard for Good Workmanship in Electrical Construction 2015.

C. NETA ATS - Acceptance Testing Specifications for Electrical Power Equipment and Systems 2017.

D. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

E. UL 467 - Grounding and Bonding Equipment Current Edition, Including All Revisions.

7.3 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Verify exact locations of underground metal water service pipe entrances to building.

2. Coordinate the work with other trades to provide steel reinforcement complying with specified requirements for concrete-encased electrode.

3. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

7.4 SUBMITTALS

A. Product Data: Provide manufacturer's standard catalog pages and data sheets for grounding and bonding system components.

B. Field quality control test reports.

C. Project Record Documents: Record actual locations of grounding electrode system components and connections.

7.5 QUALITY ASSURANCE

A. Conform to requirements of NFPA 70.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

C. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

7.6 DELIVERY, STORAGE, AND HANDLING

A. Receive, inspect, handle, and store products in accordance with manufacturer's instructions.

PART 2 PRODUCTS

8.1 GROUNDING AND BONDING REQUIREMENTS

A. Do not use products for applications other than as permitted by NFPA 70 and product listing.

B. Unless specifically indicated to be excluded, provide all required components, conductors, connectors, conduit, boxes, fittings, supports, accessories, etc. as necessary for a complete grounding and bonding system.

C. Where conductor size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.

D. Grounding System Resistance:

1. Achieve specified grounding system resistance under normally dry conditions unless otherwise approved by Architect. Precipitation within the previous 48 hours does not constitute normally dry conditions.

2. Grounding Electrode System: Not greater than 25 ohms to ground, when tested according to IEEE 81 using "fall-of-potential" method.

E. Grounding Electrode System:

1. Provide connection to required and supplemental grounding electrodes indicated to form grounding electrode system.

    a. Provide continuous grounding electrode conductors without splice or joint.

    b. Install grounding electrode conductors in raceway where exposed to physical damage. Bond grounding electrode conductor to metallic raceways at each end with bonding jumper.

2. Metal Underground Water Pipe(s):

    a. Provide connection to underground metal domestic and fire protection (where present) water service pipe(s) that are in direct contact with earth for at least 10 feet (3.0 m) at an accessible location not more than 5 feet (1.5 m) from the point of entrance to the building.

    b. Provide bonding jumper(s) around insulating joints/pipes as required to make pipe electrically continuous.

    c. Provide bonding jumper around water meter of sufficient length to permit removal of meter without disconnecting jumper.

3. Metal In-Ground Support Structure:

    a. Provide connection to metal in-ground support structure that is in direct contact with earth in accordance with NFPA 70.

4. Concrete-Encased Electrode:

    a. Provide connection to concrete-encased electrode consisting of not less than 20 feet (6.0 m) of either steel reinforcing bars or bare copper conductor not smaller than 4 AWG embedded within concrete foundation or footing that is in direct contact with earth in accordance with NFPA 70.

5. Provide additional ground electrode(s) as required to achieve specified grounding electrode system resistance.

F. Bonding and Equipment Grounding:

1. Provide bonding for equipment grounding conductors, equipment ground busses, metallic equipment enclosures, metallic raceways and boxes, device grounding terminals, and other normally non-current-carrying conductive materials enclosing electrical conductors/equipment or likely to become energized as indicated and in accordance with NFPA 70.

2. --CHOOSE ONE OF THE TWO SUBPARAGRAPHS BELOW--

3. Provide insulated equipment grounding conductor in each feeder and branch circuit raceway. Do not use raceways as sole equipment grounding conductor.

4. Where circuit conductor sizes are increased for voltage drop, increase size of equipment grounding conductor proportionally in accordance with NFPA 70.

5. Unless otherwise indicated, connect wiring device grounding terminal to branch circuit equipment grounding conductor and to outlet box with bonding jumper.

6. Terminate branch circuit equipment grounding conductors on solidly bonded equipment ground bus only. Do not terminate on neutral (grounded) or isolated/insulated ground bus.

7. Provide bonding jumper across expansion or expansion/deflection fittings provided to accommodate conduit movement.

8.2 GROUNDING AND BONDING COMPONENTS

A. General Requirements:

1. Provide products listed, classified, and labeled as suitable for the purpose intended.

2. Provide products listed and labeled as complying with UL 467 where applicable.

B. Conductors for Grounding and Bonding, in Addition to Requirements of Section 26 05 26:

1. Use insulated copper conductors unless otherwise indicated.

a. Exceptions:

1) Use bare copper conductors where installed underground in direct contact with earth.

2) Use bare copper conductors where directly encased in concrete (not in raceway).

C. Connectors for Grounding and Bonding:

1. Description: Connectors appropriate for the application and suitable for the conductors and items to be connected; listed and labeled as complying with UL 467.

2. Unless otherwise indicated, use exothermic welded connections for underground, concealed and other inaccessible connections.

3. Unless otherwise indicated, use mechanical connectors, compression connectors, or exothermic welded connections for accessible connections.

PART 3 EXECUTION

9.1 EXAMINATION

A. Verify that work likely to damage grounding and bonding system components has been completed.

B. Verify that field measurements are as indicated.

C. Verify that conditions are satisfactory for installation prior to starting work.

9.2 INSTALLATION

A. Install products in accordance with manufacturer's instructions.

B. Perform work in accordance with NECA 1 (general workmanship).

C. Make grounding and bonding connections using specified connectors.

1. Remove appropriate amount of conductor insulation for making connections without cutting, nicking or damaging conductors. Do not remove conductor strands to facilitate insertion into connector.

2. Remove nonconductive paint, enamel, or similar coating at threads, contact points, and contact surfaces.

3. Exothermic Welds: Make connections using molds and weld material suitable for the items to be connected in accordance with manufacturer's recommendations.

4. Mechanical Connectors: Secure connections according to manufacturer's recommended torque settings.

5. Compression Connectors: Secure connections using manufacturer's recommended tools and dies.

D. Identify grounding and bonding system components in accordance with Section 26 05 53.

9.3 FIELD QUALITY CONTROL

A. Inspect and test in accordance with NETA ATS except Section 4.

B. Perform inspections and tests listed in NETA ATS, Section 7.13.

C. Perform ground electrode resistance tests under normally dry conditions. Precipitation within the previous 48 hours does not constitute normally dry conditions.

D. Investigate and correct deficiencies where measured ground resistances do not comply with specified requirements.

END OF SECTION

SECTION 26 05 33.13 - CONDUIT FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

10.1 SECTION INCLUDES

A. Galvanized steel rigid metal conduit (RMC).

B. Electrical metallic tubing (EMT).

C. Rigid polyvinyl chloride (PVC) conduit.

D. Conduit fittings.

E. Accessories.

10.2 REFERENCE STANDARDS

A. ANSI C80.1 - American National Standard for Electrical Rigid Steel Conduit (ERSC) 2015.

B. ANSI C80.3 - American National Standard for Electrical Metallic Tubing -- Steel (EMT-S) 2015.

C. NECA 1 - Standard for Good Workmanship in Electrical Construction 2015.

D. NECA 101 - Standard for Installing Steel Conduits (Rigid, IMC, EMT) 2013.

E. NECA 111 - Standard for Installing Nonmetallic Raceways (RNC, ENT, LFNC) 2017.

F. NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit, Electrical Metallic Tubing, and Cable 2014.

G. NEMA RN 1 - Polyvinyl-Chloride (PVC) Externally Coated Galvanized Rigid Steel Conduit and Intermediate Metal Conduit 2018.

H. NEMA TC 2 - Electrical Polyvinyl Chloride (PVC) Conduit 2013.

I. NEMA TC 3 - Polyvinyl Chloride (PVC) Fittings for Use with Rigid PVC Conduit and Tubing 2016.

J. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

K. UL 1 - Flexible Metal Conduit Current Edition, Including All Revisions.

L. UL 6 - Electrical Rigid Metal Conduit-Steel Current Edition, Including All Revisions.

M. UL 360 - Liquid-Tight Flexible Steel Conduit Current Edition, Including All Revisions.

N. UL 514B - Conduit, Tubing, and Cable Fittings Current Edition, Including All Revisions.

O. UL 651 - Schedule 40, 80, Type EB and A Rigid PVC Conduit and Fittings Current Edition, Including All Revisions.

P. UL 797 - Electrical Metallic Tubing-Steel Current Edition, Including All Revisions.

10.3 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Coordinate minimum sizes of conduits with the actual conductors to be installed, including adjustments for conductor sizes increased for voltage drop.

2. Coordinate the arrangement of conduits with structural members, ductwork, piping, equipment and other potential conflicts installed under other sections or by others.

3. Verify exact conduit termination locations required for boxes, enclosures, and equipment installed under other sections or by others.

4. Coordinate the work with other trades to provide roof penetrations that preserve the integrity of the roofing system and do not void the roof warranty.

5. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

B. Sequencing:

1. Do not begin installation of conductors and cables until installation of conduit is complete between outlet, junction and splicing points.

10.4 SUBMITTALS

A. Product Data: Provide manufacturer's standard catalog pages and data sheets for conduits and fittings.

B. Project Record Documents: Record actual routing for conduits installed underground and conduits 2 inch (53 mm) trade size and larger.

10.5 QUALITY ASSURANCE

A. Conform to requirements of NFPA 70.

B. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

PART 2 PRODUCTS

11.1 CONDUIT APPLICATIONS

A. Do not use conduit and associated fittings for applications other than as permitted by NFPA 70 and product listing.

B. Unless otherwise indicated and where not otherwise restricted, use the conduit types indicated for the specified applications. Where more than one listed application

applies, comply with the most restrictive requirements. Where conduit type for a particular application is not specified, use galvanized steel rigid metal conduit.

C. Underground:

1. Under Slab on Grade: Use rigid PVC conduit.

2. Exterior, Direct-Buried: Use rigid PVC conduit.

3. Where rigid polyvinyl (PVC) conduit is provided, transition to galvanized steel rigid metal conduit where emerging from underground.

4. Where rigid polyvinyl (PVC) conduitlarger than 2 inch (53 mm) trade size is provided, use PVC-coated galvanized steel rigid metal conduit elbows for bends.

5. Where steel conduit is installed in direct contact with earth where soil has a resistivity of less than 2000 ohm-centimeters or is characterized as severely corrosive based on soils report or local experience, use corrosion protection tape to provide supplementary corrosion protection or use PVC-coated galvanized steel rigid metal conduit.

6. Where steel conduit emerges from concrete into soil, use corrosion protection tape to provide supplementary corrosion protection for a minimum of 4 inches (100 mm) on either side of where conduit emerges or use PVC-coated galvanized steel rigid metal conduit.

D. Concealed Within Masonry Walls: Use galvanized steel rigid metal conduit or electrical metallic tubing (EMT).

E. Concealed Within Hollow Stud Walls: Use electrical metallic tubing (EMT).

F. Concealed Above Accessible Ceilings: Use electrical metallic tubing (EMT).

G. Interior, Damp or Wet Locations: Use galvanized steel rigid metal conduit.

H. Exposed, Interior, Not Subject to Physical Damage: Use galvanized steel rigid metal conduit or electrical metallic tubing (EMT).

I. Exposed, Interior, Subject to Physical Damage: Use galvanized steel rigid metal conduit.

1. Locations subject to physical damage include, but are not limited to:

a. Where exposed below 8 feet (2.4 m), except within electrical and communication rooms or closets.

J. Exposed, Exterior: Use galvanized steel rigid metal conduit.

K. Concealed, Exterior, Not Embedded in Concrete or in Contact With Earth: Use galvanized steel rigid metal conduit.

L. Connections to Luminaires Above Accessible Ceilings: Use flexible metal conduit.

1. Maximum Length: 6 feet (1.8 m).

M. Connections to Vibrating Equipment:

1. Dry Locations: Use flexible metal conduit.
2. Damp, Wet, or Corrosive Locations: Use liquidtight flexible metal conduit.
3. Maximum Length: 6 feet (1.8 m) unless otherwise indicated.
4. Vibrating equipment includes, but is not limited to:
    a. Transformers.
    b. Motors.

N. Fished in Existing Walls, Where Necessary: Use flexible metal conduit.

11.2 CONDUIT REQUIREMENTS

A. Provide all conduit, fittings, supports, and accessories required for a complete raceway system.

B. Provide products listed, classified, and labeled as suitable for the purpose intended.

C. Minimum Conduit Size, Unless Otherwise Indicated:

1. Branch Circuits: 1 inch (27 mm) trade size.
2. Branch Circuit Homeruns: 1 inch (27 mm) trade size.
3. Control Circuits: 1/2 inch (16 mm) trade size.
4. Flexible Connections to Luminaires: 3/8 inch (12 mm) trade size.
5. Underground, Exterior: 1 inch (27 mm) trade size.

D. Where conduit size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.

11.3 GALVANIZED STEEL RIGID METAL CONDUIT (RMC)

A. Description: NFPA 70, Type RMC galvanized steel rigid metal conduit complying with ANSI C80.1 and listed and labeled as complying with UL 6.

B. Fittings:

1. Non-Hazardous Locations: Use fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B.
2. Material: Use steel or malleable iron.
3. Connectors and Couplings: Use threaded type fittings only. Threadless set screw and compression (gland) type fittings are not permitted.

11.4 ELECTRICAL METALLIC TUBING (EMT)

A. Description: NFPA 70, Type EMT steel electrical metallic tubing complying with ANSI C80.3 and listed and labeled as complying with UL 797.

B. Fittings:

1. Description: Fittings complying with NEMA FB 1 and listed and labeled as complying with UL 514B.

2. Material: Use steel or malleable iron.

3. Connectors and Couplings: Use compression (gland) or set-screw type.

a. Do not use indenter type connectors and couplings.

11.5 RIGID POLYVINYL CHLORIDE (PVC) CONDUIT

A. Description: NFPA 70, Type PVC rigid polyvinyl chloride conduit complying with NEMA TC 2 and listed and labeled as complying with UL 651; Schedule 40 unless otherwise indicated, Schedule 80 where subject to physical damage; rated for use with conductors rated 90 degrees C.

B. Fittings:

1. Manufacturer: Same as manufacturer of conduit to be connected.

2. Description: Fittings complying with NEMA TC 3 and listed and labeled as complying with UL 651; material to match conduit.

11.6 ACCESSORIES

A. Conduit Joint Compound: Corrosion-resistant, electrically conductive; suitable for use with the conduit to be installed.

B. Solvent Cement for PVC Conduit and Fittings: As recommended by manufacturer of conduit and fittings to be installed.

C. Pull Strings: Use nylon cord with average breaking strength of not less than 200 pound-force (890 N).

PART 3 EXECUTION

12.1 INSTALLATION

A. Install products in accordance with manufacturer's instructions.

B. Perform work in accordance with NECA 1 (general workmanship).

C. Install galvanized steel rigid metal conduit (RMC) in accordance with NECA 101.

D. Install PVC-coated galvanized steel rigid metal conduit (RMC) using only tools approved by the manufacturer.

E. Install rigid polyvinyl chloride (PVC) conduit in accordance with NECA 111.

F. Conduit Routing:

1. Unless dimensioned, conduit routing indicated is diagrammatic.
2. When conduit destination is indicated without specific routing, determine exact routing required.
3. Conceal all conduits unless specifically indicated to be exposed.
4. Conduits installed underground or embedded in concrete may be routed in the shortest possible manner unless otherwise indicated. Route all other conduits parallel or perpendicular to building structure and surfaces, following surface contours where practical.
5. Arrange conduit to maintain adequate headroom, clearances, and access.
6. Arrange conduit to provide no more than the equivalent of four 90 degree bends between pull points.
7. Arrange conduit to provide no more than 150 feet (46 m) between pull points.
8. Route conduits above water and drain piping where possible.
9. Arrange conduit to prevent moisture traps. Provide drain fittings at low points and at sealing fittings where moisture may collect.
10. Maintain minimum clearance of 6 inches (150 mm) between conduits and piping for other systems.
11. Maintain minimum clearance of 12 inches (300 mm) between conduits and hot surfaces. This includes, but is not limited to:
    a. Heaters.
    b. Hot water piping.
    c. Flues.
12. Group parallel conduits in the same area together on a common rack.

G. Conduit Support:

1. Secure and support conduits in accordance with NFPA 70 and Section 26 05 29 using suitable supports and methods approved by the authority having jurisdiction.
2. Provide independent support from building structure. Do not provide support from piping, ductwork, or other systems.
3. Installation Above Suspended Ceilings: Do not provide support from ceiling support system. Do not provide support from ceiling grid or allow conduits to lay on ceiling tiles.

4. Use conduit strap to support single surface-mounted conduit.
    a. Use clamp back spacer with conduit strap for damp and wet locations to provide space between conduit and mounting surface.
5. Use metal channel (strut) with accessory conduit clamps to support multiple parallel surface-mounted conduits.
6. Use conduit clamp to support single conduit from beam clamp or threaded rod.
7. Use trapeze hangers assembled from threaded rods and metal channel (strut) with accessory conduit clamps to support multiple parallel suspended conduits.
8. Use non-penetrating rooftop supports to support conduits routed across rooftops (only where approved).
9. Use of spring steel conduit clips for support of conduits is not permitted.
10. Use of wire for support of conduits is not permitted.

H. Connections and Terminations:

1. Use approved zinc-rich paint or conduit joint compound on field-cut threads of galvanized steel conduits prior to making connections.
2. Where two threaded conduits must be joined and neither can be rotated, use three-piece couplings or split couplings. Do not use running threads.
3. Use suitable adapters where required to transition from one type of conduit to another.
4. Provide drip loops for liquidtight flexible conduit connections to prevent drainage of liquid into connectors.
5. Terminate threaded conduits in boxes and enclosures using threaded hubs or double lock nuts for dry locations and raintight hubs for wet locations.
6. Provide insulating bushings or insulated throats at all conduit terminations to protect conductors.
7. Secure joints and connections to provide maximum mechanical strength and electrical continuity.

I. Penetrations:

1. Do not penetrate or otherwise notch or cut structural members, including footings and grade beams, without approval of Structural Engineer.
2. Make penetrations perpendicular to surfaces unless otherwise indicated.
3. Provide sleeves for penetrations as indicated or as required to facilitate installation. Set sleeves flush with exposed surfaces unless otherwise indicated or required.

4. Conceal bends for conduit risers emerging above ground.

5. Seal interior of conduits entering the building from underground at first accessible point to prevent entry of moisture and gases.

6. Where conduits penetrate waterproof membrane, seal as required to maintain integrity of membrane.

7. Make penetrations for roof-mounted equipment within associated equipment openings and curbs where possible to minimize roofing system penetrations. Where penetrations are necessary, seal as indicated or as required to preserve integrity of roofing system and maintain roof warranty. Include proposed locations of penetrations and methods for sealing with submittals.

8. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 07 84 00.

J. Underground Installation:

1. Minimum Cover, Unless Otherwise Indicated or Required:

a. Underground, Exterior: 24 inches (610 mm).

b. Under Slab on Grade: 12 inches (300 mm) to bottom of slab.

2. Provide underground warning tape in accordance with Section 26 05 53 along entire conduit length.

K. Concrete Encasement: Where conduits not otherwise embedded within concrete are indicated to be concrete-encased, provide concrete in accordance with Section Concrete with minimum concrete cover of 3 inches (76 mm) on all sides unless otherwise indicated.

L. Conduit Movement Provisions: Where conduits are subject to movement, provide expansion and expansion/deflection fittings to prevent damage to enclosed conductors or connected equipment. This includes, but is not limited to:

1. Where conduits cross structural joints intended for expansion, contraction, or deflection.

2. Where calculated in accordance with NFPA 70 for rigid polyvinyl chloride (PVC) conduit installed above ground to compensate for thermal expansion and contraction.

3. Where conduits are subject to earth movement by settlement or frost.

M. Condensation Prevention: Where conduits cross barriers between areas of potential substantial temperature differential, provide sealing fitting or approved sealing compound at an accessible point near the penetration to prevent condensation. This includes, but is not limited to:

1. Where conduits pass from outdoors into conditioned interior spaces.

2. Where conduits pass from unconditioned interior spaces into conditioned interior spaces.

N. Provide pull string in all empty conduits and in conduits where conductors and cables are to be installed by others. Leave minimum slack of 12 inches (300 mm) at each end.

O. Provide grounding and bonding in accordance with Section 26 05 26.

P. Identify conduits in accordance with Section 26 05 53.

12.2 FIELD QUALITY CONTROL

A. Repair cuts and abrasions in galvanized finishes using zinc-rich paint recommended by manufacturer. Replace components that exhibit signs of corrosion.

B. Where coating of PVC-coated galvanized steel rigid metal conduit (RMC) contains cuts or abrasions, repair in accordance with manufacturer's instructions.

C. Correct deficiencies and replace damaged or defective conduits.

12.3 CLEANING

A. Clean interior of conduits to remove moisture and foreign matter.

12.4 PROTECTION

A. Immediately after installation of conduit, use suitable manufactured plugs to provide protection from entry of moisture and foreign material and do not remove until ready for installation of conductors.

END OF SECTION

SECTION 26 05 33.16 - BOXES FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

13.1 SECTION INCLUDES

A. Outlet and device boxes up to 100 cubic inches (1,650 cu cm), including those used as junction and pull boxes.

B. Cabinets and enclosures, including junction and pull boxes larger than 100 cubic inches (1,650 cu cm).

13.2 REFERENCE STANDARDS

A. NECA 1 - Standard for Good Workmanship in Electrical Construction 2015.

B. NECA 130 - Standard for Installing and Maintaining Wiring Devices 2010.

C. NEMA FB 1 - Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit, Electrical Metallic Tubing, and Cable 2014.

D. NEMA OS 1 - Sheet-Steel Outlet Boxes, Device Boxes, Covers, and Box Supports 2013.

E. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum) 2018.

F. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

G. UL 50 - Enclosures for Electrical Equipment, Non-Environmental Considerations Current Edition, Including All Revisions.

H. UL 50E - Enclosures for Electrical Equipment, Environmental Considerations Current Edition, Including All Revisions.

I. UL 508A - UL Standard for Safety Industrial Control Panels 2018.

J. UL 514A - Metallic Outlet Boxes Current Edition, Including All Revisions.

13.3 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Coordinate the work with other trades to avoid placement of ductwork, piping, equipment, or other potential obstructions within the dedicated equipment spaces and working clearances for electrical equipment required by NFPA 70.

2. Coordinate arrangement of electrical equipment with the dimensions and clearance requirements of the actual equipment to be installed.

3. Coordinate minimum sizes of boxes with the actual installed arrangement of conductors, clamps, support fittings, and devices, calculated according to NFPA 70.

4. Coordinate minimum sizes of pull boxes with the actual installed arrangement of connected conduits, calculated according to NFPA 70.

5. Coordinate the placement of boxes with millwork, furniture, devices, equipment, etc. installed under other sections or by others.

6. Coordinate the work with other trades to preserve insulation integrity.

7. Coordinate the work with other trades to provide walls suitable for installation of flush-mounted boxes where indicated.

8. Notify Architect of any conflicts with or deviations from Contract Documents. Obtain direction before proceeding with work.

13.4 SUBMITTALS

A. Product Data: Provide manufacturer's standard catalog pages and data sheets for floor boxes and underground boxes/enclosures.

13.5 QUALITY ASSURANCE

A. Conform to requirements of NFPA 70.

PART 2 PRODUCTS

14.1 BOXES

A. General Requirements:

1. Do not use boxes and associated accessories for applications other than as permitted by NFPA 70 and product listing.

2. Provide all boxes, fittings, supports, and accessories required for a complete raceway system and to accommodate devices and equipment to be installed.

3. Provide products listed, classified, and labeled as suitable for the purpose intended.

4. Where box size is not indicated, size to comply with NFPA 70 but not less than applicable minimum size requirements specified.

5. Provide grounding terminals within boxes where equipment grounding conductors terminate.

B. Outlet and Device Boxes Up to 100 cubic inches (1,650 cu cm), Including Those Used as Junction and Pull Boxes:

1. Use sheet-steel boxes for dry locations unless otherwise indicated or required.

2. Use cast iron boxes or cast aluminum boxes for damp or wet locations unless otherwise indicated or required; furnish with compatible weatherproof gasketed covers.

3. Use suitable concrete type boxes where flush-mounted in concrete.

4. Use suitable masonry type boxes where flush-mounted in masonry walls.

5. Use raised covers suitable for the type of wall construction and device configuration where required.

6. Use shallow boxes where required by the type of wall construction.

7. Do not use "through-wall" boxes designed for access from both sides of wall.

8. Sheet-Steel Boxes: Comply with NEMA OS 1, and list and label as complying with UL 514A.

9. Cast Metal Boxes: Comply with NEMA FB 1, and list and label as complying with UL 514A; furnish with threaded hubs.

10. Boxes for Supporting Luminaires and Ceiling Fans: Listed as suitable for the type and weight of load to be supported; furnished with fixture stud to accommodate mounting of luminaire where required.

11. Boxes for Ganged Devices: Use multigang boxes of single-piece construction. Do not use field-connected gangable boxes unless specifically indicated or permitted.

12. Minimum Box Size, Unless Otherwise Indicated:

    a. Wiring Devices (Other Than Communications Systems Outlets): 4 inch square by 1-1/2 inch deep (100 by 38 mm) trade size.

    b. Communications Systems Outlets: 4 inch square by 2-1/8 inch (100 by 54 mm) trade size.

    c. Ceiling Outlets: 4 inch octagonal or square by 1-1/2 inch deep (100 by 38 mm) trade size.

13. Wall Plates: Comply with Section 26 27 26.

C. Cabinets and Enclosures, Including Junction and Pull Boxes Larger Than 100 cubic inches (1,650 cu cm):

1. Comply with NEMA 250, and list and label as complying with UL 50 and UL 50E, or UL 508A.

2. NEMA 250 Environment Type, Unless Otherwise Indicated:

3. Junction and Pull Boxes Larger Than 100 cubic inches (1,650 cu cm):

    a. Provide screw-cover or hinged-cover enclosures unless otherwise indicated.

PART 3 EXECUTION

15.1 INSTALLATION

A. Install products in accordance with manufacturer's instructions.

B. Install boxes in accordance with NECA 1 (general workmanship) and, where applicable, NECA 130, including mounting heights specified in those standards where mounting heights are not indicated.

C. Arrange equipment to provide minimum clearances in accordance with manufacturer's instructions and NFPA 70.

D. Provide separate boxes for emergency power and normal power systems.

E. Unless otherwise indicated, provide separate boxes for line voltage and low voltage systems.

F. Flush-mount boxes in finished areas unless specifically indicated to be surface-mounted.

G. Box Locations:

1. Locate boxes to be accessible. Provide access panels in accordance with Section Access Panels as requiredwhere approved by the Architect.

2. Unless dimensioned, box locations indicated are approximate.

3. Locate boxes as required for devices installed under other sections or by others.

    a. Switches, Receptacles, and Other Wiring Devices: Comply with Section 26 27 26.

4. Locate boxes so that wall plates do not span different building finishes.

5. Locate boxes so that wall plates do not cross masonry joints.

6. Unless otherwise indicated, where multiple outlet boxes are installed at the same location at different mounting heights, install along a common vertical center line.

7. Do not install flush-mounted boxes on opposite sides of walls back-to-back. Provide minimum 6 inches (150 mm) horizontal separation unless otherwise indicated.

8. Acoustic-Rated Walls: Do not install flush-mounted boxes on opposite sides of walls back-to-back; provide minimum 24 inches (610 mm) horizontal separation.

9. Fire Resistance Rated Walls: Install flush-mounted boxes such that the required fire resistance will not be reduced.

    a. Do not install flush-mounted boxes on opposite sides of walls back-to-back; provide minimum 24 inches (610 mm) separation where wall is constructed with individual noncommunicating stud cavities or protect both boxes with listed putty pads.

    b. Do not install flush-mounted boxes with area larger than 16 square inches (0.0103 sq m) or such that the total aggregate area of openings exceeds 100 square inches (0.0645 sq m) for any 100 square feet (9.29 sq m) of wall area.

10. Locate junction and pull boxes as indicated, as required to facilitate installation of conductors, and to limit conduit length and/or number of bends between pulling points in accordance with Section 26 05 33.13.

11. Locate junction and pull boxes in the following areas, unless otherwise indicated or approved by the Architect:

    a. Concealed above accessible suspended ceilings.

    b. Within joists in areas with no ceiling.

    c. Electrical rooms.

    d. Mechanical equipment rooms.

H. Box Supports:

1. Secure and support boxes in accordance with NFPA 70 and Section 26 05 29 using suitable supports and methods approved by the authority having jurisdiction.

2. Provide independent support from building structure except for cast metal boxes (other than boxes used for fixture support) supported by threaded conduit connections in accordance with NFPA 70. Do not provide support from piping, ductwork, or other systems.

I. Install boxes plumb and level.

J. Flush-Mounted Boxes:

1. Install boxes in noncombustible materials such as concrete, tile, gypsum, plaster, etc. so that front edge of box or associated raised cover is not set back from finished surface more than 1/4 inch (6 mm) or does not project beyond finished surface.

2. Install boxes in combustible materials such as wood so that front edge of box or associated raised cover is flush with finished surface.

3. Repair rough openings around boxes in noncombustible materials such as concrete, tile, gypsum, plaster, etc. so that there are no gaps or open spaces greater than 1/8 inch (3 mm) at the edge of the box.

K. Install boxes as required to preserve insulation integrity.

L. Install permanent barrier between ganged wiring devices when voltage between adjacent devices exceeds 300 V.

M. Install firestopping to preserve fire resistance rating of partitions and other elements, using materials and methods specified in Section 07 84 00.

N. Close unused box openings.

O. Install blank wall plates on junction boxes and on outlet boxes with no devices or equipment installed or designated for future use.

P. Provide grounding and bonding in accordance with Section 26 05 26.

15.2 CLEANING

A. Clean interior of boxes to remove dirt, debris, plaster and other foreign material.

15.3 PROTECTION

A. Immediately after installation, protect boxes from entry of moisture and foreign material until ready for installation of conductors.

END OF SECTION

SECTION 26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 GENERAL

16.1 SECTION INCLUDES

A. Electrical identification requirements.

B. Identification nameplates and labels.

C. Wire and cable markers.

D. Voltage markers.

E. Underground warning tape.

F. Warning signs and labels.

16.2 RELATED REQUIREMENTS

A. Section 26 05 19 - Low-Voltage Electrical Power Conductors and Cables: Color coding for power conductors and cables 600 V and less; vinyl color coding electrical tape.

B. Section 26 27 26 - Wiring Devices - Lutron: Device and wallplate finishes; factory pre-marked wallplates.

16.3 REFERENCE STANDARDS

A. ANSI Z535.2 - American National Standard for Environmental and Facility Safety Signs 2011.

B. ANSI Z535.4 - American National Standard for Product Safety Signs and Labels 2011.

C. NFPA 70 - National Electrical Code Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

D. NFPA 70E - Standard for Electrical Safety in the Workplace 2018.

E. UL 969 - Marking and Labeling Systems Current Edition, Including All Revisions.

16.4 ADMINISTRATIVE REQUIREMENTS

A. Coordination:

1. Verify final designations for equipment, systems, and components to be identified prior to fabrication of identification products.

B. Sequencing:

1. Do not conceal items to be identified, in locations such as above suspended ceilings, until identification products have been installed.

2. Do not install identification products until final surface finishes and painting are complete.

16.5 SUBMITTALS

A. Product Data: Provide manufacturer's standard catalog pages and data sheets for each product.

B. Shop Drawings: Provide schedule of items to be identified indicating proposed designations, materials, legends, and formats.

16.6 QUALITY ASSURANCE

A. Conform to requirements of NFPA 70.

16.7 FIELD CONDITIONS

A. Do not install adhesive products when ambient temperature is lower than recommended by manufacturer.

PART 2 PRODUCTS

17.1 IDENTIFICATION REQUIREMENTS

A. Identification for Equipment:

1. Use identification nameplate to identify each piece of electrical distribution and control equipment and associated sections, compartments, and components.

a. Switchboards:

1) Identify ampere rating and name.

2) Identify voltage and phase.

3) Identify power source and circuit number. Include location when not within sight of equipment.

4) Use identification nameplate to identify main overcurrent protective device.

5) Use identification nameplate to identify load(s) served for each branch device.Identify spares and spaces.

b. Panelboards:

1) Identify ampere rating and name.

2) Identify voltage and phase.

3) Identify power source and circuit number. Include location when not within sight of equipment.

4) Use typewritten circuit directory to identify load(s) served for panelboards with a door. Identify spares and spaces using pencil.

5) For power panelboards without a door, use identification nameplate to identify load(s) served for each branch device.Identify spares and spaces.

c. Transformers:

1) Identify kVA rating and name.

2. Service Equipment:

a. Use identification nameplate to identify each service disconnecting means.

3. Available Fault Current Documentation: Use identification label to identify the available fault current and date calculations were performed at locations requiring documentation by NFPA 70 including but not limited to the following.

a. Service equipment.

b. Industrial control panels.

c. Motor control centers.

d. Elevator control panels.

e. Industrial machinery.

4. Arc Flash Hazard Warning Labels: Use warning labels to identify arc flash hazards for electrical equipment, such as switchboards, panelboards, industrial control panels, meter socket enclosures, and motor control centers that are likely to require examination, adjustment, servicing, or maintenance while energized.

a. Minimum Size: 3.5 by 5 inches (89 mm by 127 mm).

b. Legend: Include orange header that reads "WARNING", followed by the word message "Arc Flash and Shock Hazard; Appropriate PPE Required; Do not operate controls or open covers without appropriate personal protection equipment; Failure to comply may result in injury or death; Refer to NFPA 70E for minimum PPE requirements" or approved equivalent.

B. Identification for Conductors and Cables:

1. Color Coding for Power Conductors 600 V and Less: Comply with Section 26 05 19.

2. Use identification nameplate or identification label to identify color code for ungrounded and grounded power conductors inside door or enclosure at each piece of feeder or branch-circuit distribution equipment when premises has feeders or branch circuits served by more than one nominal voltage system.

3. Use wire and cable markers to identify circuit number or other designation indicated for power, control, and instrumentation conductors and cables at the following locations:

    a. At each source and load connection.

    b. Within boxes when more than one circuit is present.

    c. Within equipment enclosures when conductors and cables enter or leave the enclosure.

4. Use wire and cable markers to identify connected grounding electrode system components for grounding electrode conductors.

C. Identification for Raceways:

1. Use voltage markers to identify highest voltage present for accessible conduits at maximum intervals of 20 feet (6.1 m).

2. Use identification labels, handwritten text using indelible marker, or plastic marker tags to identify circuits enclosed for accessible conduits at wall penetrations, at floor penetrations, at roof penetrations, and at equipment terminations when source is not within sight.

3. Use identification labels, handwritten text using indelible marker, or plastic marker tags to identify spare conduits at each end. Identify purpose and termination location.

4. Use underground warning tape to identify underground raceways.

D. Identification for Boxes:

1. Use voltage markers to identify highest voltage present.

2. Use identification labels or handwritten text using indelible marker to identify circuits enclosed.

    a. For exposed boxes in public areas, use only identification labels.

E. Identification for Devices:

1. Wiring Device and Wallplate Finishes: Comply with Section 26 27 26.

2. Use identification label or engraved wallplate to identify serving branch circuit for all receptacles.

    a. For receptacles in public areas or in areas as directed by Architect, provide identification on inside surface of wallplate.

3. Use identification label or engraved wallplate to identify load controlled for wall-mounted control devices controlling loads that are not visible from the control location and for multiple wall-mounted control devices installed at one location.

F. Identification for Luminaires:

1. Use permanent red dot on luminaire frame to identify luminaires connected to emergency power system.

17.2 IDENTIFICATION NAMEPLATES AND LABELS

A. Identification Nameplates:

1. Materials:

    a. Indoor Clean, Dry Locations: Use plastic nameplates.

    b. Outdoor Locations: Use plastic, stainless steel, or aluminum nameplates suitable for exterior use.

2. Plastic Nameplates: Two-layer or three-layer laminated acrylic or electrically non-conductive phenolic with beveled edges; minimum thickness of 1/16 inch (1.6 mm); engraved text.

    a. Exception: Provide minimum thickness of 1/8 inch (3 mm) when any dimension is greater than 4 inches (100 mm).

3. Stainless Steel Nameplates: Minimum thickness of 1/32 inch (0.8 mm); engraved or laser-etched text.

4. Aluminum Nameplates: Anodized; minimum thickness of 1/32 inch (0.8 mm); engraved or laser-etched text.

5. Mounting Holes for Mechanical Fasteners: Two, centered on sides for sizes up to 1 inch (25 mm) high; Four, located at corners for larger sizes.

B. Identification Labels:

1. Materials: Use self-adhesive laminated plastic labels; UV, chemical, water, heat, and abrasion resistant.

2. Text: Use factory pre-printed or machine-printed text. Do not use handwritten text unless otherwise indicated.

C. Format for Equipment Identification:

1. Minimum Size: 1 inch (25 mm) by 2.5 inches (64 mm).

2. Legend:
    a. Equipment designation or other approved description.
3. Text: All capitalized unless otherwise indicated.
4. Minimum Text Height:
    a. Equipment Designation: 1/2 inch (13 mm).
    b. Other Information: 1/4 inch (6 mm).
5. Color:
    a. Normal Power System: White text on black background.

D. Format for Caution and Warning Messages:

1. Minimum Size: 2 inches (51 mm) by 4 inches (100 mm).
2. Legend: Include information or instructions indicated or as required for proper and safe operation and maintenance.
3. Text: All capitalized unless otherwise indicated.
4. Minimum Text Height: 1/2 inch (13 mm).
5. Color: Black text on yellow background unless otherwise indicated.

E. Format for Receptacle Identification:

1. Minimum Size: 3/8 inch (10 mm) by 1.5 inches (38 mm).
2. Legend: Power source and circuit number or other designation indicated.
3. Text: All capitalized unless otherwise indicated.
4. Minimum Text Height: 3/16 inch (5 mm).
5. Color: Black text on clear background.

F. Format for Control Device Identification:

1. Minimum Size: 3/8 inch (10 mm) by 1.5 inches (38 mm).
2. Legend: Load controlled or other designation indicated.
3. Text: All capitalized unless otherwise indicated.
4. Minimum Text Height: 3/16 inch (5 mm).
5. Color: Black text on clear background.

17.3 WIRE AND CABLE MARKERS

A. Markers for Conductors and Cables: Use wrap-around self-adhesive vinyl cloth, wrap-around self-adhesive vinyl self-laminating, heat-shrink sleeve, plastic sleeve, plastic clip-on, or vinyl split sleeve type markers suitable for the conductor or cable to be identified.

B. Markers for Conductor and Cable Bundles: Use plastic marker tags secured by nylon cable ties.

C. Legend: Power source and circuit number or other designation indicated.

D. Text: Use factory pre-printed or machine-printed text, all capitalized unless otherwise indicated.

E. Minimum Text Height: 1/8 inch (3 mm).

F. Color: Black text on white background unless otherwise indicated.

17.4 VOLTAGE MARKERS

A. Markers for Conduits: Use factory pre-printed self-adhesive vinyl, self-adhesive vinyl cloth, or vinyl snap-around type markers.

B. Markers for Boxes and Equipment Enclosures: Use factory pre-printed self-adhesive vinyl or self-adhesive vinyl cloth type markers.

C. Minimum Size:

1. Markers for Conduits: As recommended by manufacturer for conduit size to be identified.

2. Markers for Pull Boxes: 1 1/8 by 4 1/2 inches (29 by 110 mm).

3. Markers for Junction Boxes: 1/2 by 2 1/4 inches (13 by 57 mm).

D. Legend:

1. Markers for Voltage Identification: Highest voltage present.

E. Color: Black text on orange background unless otherwise indicated.

17.5 UNDERGROUND WARNING TAPE

A. Materials: Use non-detectable type polyethylene tape suitable for direct burial, unless otherwise indicated.

B. Non-detectable Type Tape: 6 inches (152 mm) wide, with minimum thickness of 4 mil (0.1 mm).

C. Legend: Type of service, continuously repeated over full length of tape.

D. Color:

17.6 WARNING SIGNS AND LABELS

A. Comply with ANSI Z535.2 or ANSI Z535.4 as applicable.

B. Warning Signs:

1. Materials:

2. Minimum Size: 7 by 10 inches (178 by 254 mm) unless otherwise indicated.

C. Warning Labels:

1. Materials: Use factory pre-printed or machine-printed self-adhesive polyester or self-adhesive vinyl labels; UV, chemical, water, heat, and abrasion resistant; produced using materials recognized to UL 969.

2. Machine-Printed Labels: Use thermal transfer process printing machines and accessories recommended by label manufacturer.

3. Minimum Size: 2 by 4 inches (51 mm by 102 mm) unless otherwise indicated.

PART 3 EXECUTION

18.1 INSTALLATION

A. Install products in accordance with manufacturer's instructions.

B. Install identification products to be plainly visible for examination, adjustment, servicing, and maintenance. Unless otherwise indicated, locate products as follows:

1. Surface-Mounted Equipment: Enclosure front.

2. Flush-Mounted Equipment: Inside of equipment door.

3. Free-Standing Equipment: Enclosure front; also enclosure rear for equipment with rear access.

4. Elevated Equipment: Legible from the floor or working platform.

5. Branch Devices: Adjacent to device.

6. Interior Components: Legible from the point of access.

7. Conduits: Legible from the floor.

8. Boxes: Outside face of cover.

9. Conductors and Cables: Legible from the point of access.

10. Devices: Outside face of cover.

C. Install identification products centered, level, and parallel with lines of item being identified.

D. Secure nameplates to exterior surfaces of enclosures using stainless steel screws and to interior surfaces using self-adhesive backing or epoxy cement.

E. Install self-adhesive labels and markers to achieve maximum adhesion, with no bubbles or wrinkles and edges properly sealed.

F. Install underground warning tape above buried lines with one tape per trench at 3 inches (75 mm) below finished grade.

G. Mark all handwritten text, where permitted, to be neat and legible.

18.2 FIELD QUALITY CONTROL

A. Replace self-adhesive labels and markers that exhibit bubbles, wrinkles, curling or other signs of improper adhesion.

END OF SECTION

LED READERBOARD SPECIFICATIONS

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DAKTRONICS CSI TECHNICAL PROVISIONS

Section 11 68 43 Double-sided LED Display

Section 11 68 43 – Double-sided LED Display

PART 1: GENERAL

1.01 SECTION INCLUDES

A. LED message centers

B. Control software

1.02 REFERENCES

A. Standard for Electric Signs, UL and CUL Listed

B. Standard for Control Centers for Changing Message Type Signs

C. Federal Communications Commission Regulation Part 15

D. National Electric Code

E. Designed to current UBC or IBC standards

F. FCC Class A Compliant

1.03 SUBMITTAL

A. The electronic LED display manufacturer shall provide a complete technical submittal within 60 days of contract award and shall not proceed with LED Matrix manufacture until the Engineer has approved the submittal.

B. Submit:

1. All LED display manufacturer qualifications, as specified herein.
2. LED display shop drawing.
3. LED display Riser diagram.
4. AC Site Power Requirements, including legs and Amps per leg.
5. LED display control software operator's manual.
6. LED display installation and maintenance manual.

1.04 QUALIFICATIONS

A. LED Display Manufacturer shall:

1. Have been in the business of manufacturing permanently mounted outdoor LED displays for a minimum period of 15 years prior to the contract bid date. An “LED” display contains pixels constructed solely of high-intensity discrete LEDs.
2. Have in operation a minimum of 100 large outdoor permanently mounted LED displays as defined above. Each of these LED displays shall have operated successfully for a minimum period of one (1) year prior to the contract bid date.
3. Have in operation, as of the contract bid date, a minimum of 100 outdoor LED display systems. All systems shall be owned and operated by five different agencies.
4. Have been in business under the same corporate name for a period of no less than 10 years prior to the contract bid date.
5. Provide a toll-free help desk number that will be staffed from 7 a.m. to 7 p.m.

B. Experience with manufacturing the following types of electronic sign products shall not satisfy the requirements of this LED display specification:

1. Indoor displays of any size or type
2. Back-lit displays
3. Any type of matrix display that cannot be programmed to show a nearly infinite quantity of messages

1.05 WARRANTY

A. Provide 5 years of parts coverage
B. Provide toll-free service coordination
C. Provide a toll-free help desk number that will be staffed from 7 a.m. to 7 p.m.

PART 2: PRODUCTS

2.01 CABINET CONSTRUCTION

1. Display housing dimensions shall not exceed 119 inches tall by 240 inches wide. The front-toback housing depth shall not exceed 11 inches.

2. Display weight shall not exceed 2,190 lbs/143 kg.

3. Maximum display power shall not exceed 6325 watts when 100% of the pixels are operating at their maximum possible drive current.

4. Display shall operate from the following power sources: 120/240 VAC, 60 Hz single-phase, including neutral and earth ground.

5. Display shall operate in a minimum ambient temperature range of -40° to +120°F (-40 to +50°C) and to a 95% humidity.

6. Internal display component hardware (nuts, bolts, screws, standoffs, rivets, fasteners, etc.) shall be fabricated from stainless steel, aluminum, nylon, or

other durable corrosion-resistant materials suitable for the signage application.

7. Electrical display components shall be 100% solid-state.

8. The presence of ambient radio signals and magnetic or electromagnetic interference, including those from power lines, transformers, and motors, shall not impair performance of the display system.

9. The display shall contain a full LED matrix measuring a minimum of 180 pixel rows high by 375 pixel columns wide. The LED display shall display messages that are continuous, uniform, and unbroken in appearance.

A. Housing Frame

1. Display materials shall use non-corrosive materials or have a protective coating so they shall be anti-corrosive and not degrade or oxidize.
2. Adequate ventilation shall be provided through convection without the need to provide extra space around the sides or behind the display.
3. Steel mounting points that can be used for mounting purposes shall be provided with the display and have the ability to be adjusted for alternative mounting methods.
4. Shall include lifting supports that can be removed after installation.

B. Exterior Finish

1. The LED display border pieces shall be coated with an automotive-grade acrylic urethane paint.

C. Front Face Construction

1. To meet the display readability requirements, the front face must be constructed in such a manner that it provides high contrast, low sunlight reflection and durability in all weather and site conditions.
2. Minimum features of front face shall:

    a. Provide UV resistance to prevent discoloring.

    b. Include louvers for contrast enhancement.

    c. Use surface materials in the active LED area, such as metal, plastic, or other face materials, designed for low sunlight reflectivity.

D. Serviceability

1. The display housing shall provide safe and convenient front service access for all modular assemblies, components, wiring, and other materials located within the housing.
2. All internal components shall be removable and replaceable by a single technician with basic hand tools.

3. Service access shall be easily obtained by removal of one or more modules in front of the associated internal component.
4. Each module should allow simple removal with a single latch system.
5. Displays shall be designed with service features that minimize potential bodily harm.

2.02 DISPLAY COMPONENTS

A. LED display modules shall be constructed for good readability, long life, and ease of service. Each display module shall be constructed as follows:

1. Each module within the product family shall be designed with the same physical footprint of 12.48" x 15.59".
2. All modules and their components shall be fully encapsulated and sealed to meet IP-67 standards.
3. An LED module shall consist of LEDs with all drive electronics mounted on a single Printed Circuit Board (PCB).
4. LEDs shall be auto-inserted in order to maintain quality and uniformity of the LEDs within each LED module.
5. All PCBs shall be wave-soldered to ensure uniformity, quality, and durability of all solder joints.
6. All PCBs shall be cleaned in a manner so as not to contain more than 2 parts per million contaminants.
7. Module signal and electrical connections shall be of the positive locking and removable type. Removal of a module from the display shall not require a de-soldering operation.
8. Data to the modules shall be redundant in that the signal can reach the module from multiple directions in the event of a loss in signal path from either direction.
9. All LED display modules in a single display shall be identical in construction and interchangeable throughout the display with the ability to be field calibrated.
10. All module rows shall include continuous louvers over the LEDs for sunlight shading and enhanced contrast.
11. Modules shall be individually attached to the cabinet frame.
12. Removal of one or more modules shall not affect the display's structural integrity.

13. The distance from the center of one line or column of pixels to the center of all adjacent lines or columns shall be 15.85mm both horizontally and vertically.

14. The failure of a single pixel, module or power supply shall not cause the failure of any other pixel, module or power supply in the display.

15. All modules shall have no less than a 140° horizontal half-intensity viewing angle and a readability angle of 160° horizontal.

16. The transition of the viewing intensity shall be consistent throughout the viewing cone.

B. Pixels shall be constructed with discrete LEDs, and these discrete LEDs shall conform to the following specifications:

1. LEDs shall be non-diffused, ultra-bright, solid-state light emitting diodes.
2. The red LEDs shall be constructed of AlInGaP technology and the green and blue LEDs shall be constructed of InGaN technology.
3. Each color of LEDs used in all LED displays provided for this contract shall be from the same bin.
4. LED half-life shall be an estimated minimum of 100,000 hours.
5. Display shall have a minimum intensity of 10,000 cd/m2 for RGB maximum light output, 4,500 cd/m2 for Red maximum light output, and 6,000 cd/m2 for Amber maximum light output.

C. Power Supply

1. All power supplies shall be regulated, auto-ranging AC to DC power, with protection for the LED pixel, LED display and driver circuitry in the event of power spikes or surges.
2. Each power supply and their connectors shall be fully sealed to protect from corrosive environmental factors meeting IP-67 standards.

D. Internal Wiring

1. Wiring for LED display modules and other internal components shall be installed in the housing in a neat and professional manner.
2. Wiring shall not impede the removal of display modules, power supplies or other display components.
3. Wires shall not make contact with or be bent around sharp metal edges.
4. All wiring shall conform to the National Electric Code.

E. The display shall be protected from electrical spikes and transients.

F. The manufacturer shall provide an earth-ground lug on the display.

2.03 DISPLAY PERFORMANCE

A. Display Capability

1. The display shall contain a full LED matrix measuring a minimum of 180 pixel rows high by 375 pixel columns wide.
2. The LED display shall present messages that are continuous, uniform, and unbroken in appearance.
3. The LED display shall be capable of producing 281 trillion colors for RGB and 4096 shades of color for monochrome red or amber at all dimming levels.
4. Each display pixel shall be composed of one each – red, green, and blue LEDS or one red or one amber
5. The LED display shall be capable of displaying all true type fonts.
6. The display shall be able to display messages composed of any combination of alphanumeric text, punctuation symbols, graphic images, and pre-canned video files.
7. Video and message files shall have up to a 30 frame per second playback capability.

B. Controller

1. The display's controller shall be able to run independently from a controlling computing device allowing the display to operate even when the controlling device is unhooked or turned off.
2. Communication protocol shall support other matrix products from the vendor such as other outdoor or indoor displays of varying sizes and/or colors.
3. Each controller shall be connected to a light sensor allowing each LED display to automatically adjust brightness according to display direction and lighting conditions.
4. The controller shall allow connection to a temperature sensor that provides accurate site temperatures.
5. Active presentations, stored presentations, schedules, display configuration, time and date shall be stored in non-volatile memory. No external power or battery backup will be required to maintain this data.

C. Control and Communications

1. The display controller should be DHCP-enabled and allow for static IP addressing.
2. Each single-face display shall be controlled and monitored by its own LED controller.
3. The LED controller shall be able to receive instructions from and provide information by accessing the Venus Control Suite using the following communication modes:
    a. Cellular Modem with Daktronics-Verizon Lifetime Data Plan

2.04 CONTROL SOFTWARE

Displays shall be controlled by the Daktronics Venus Control Suite or approved equivalent. Controls shall comply with the requirements as set forth in the Daktronics Digital Displays Solutions catalog.

PART 3: EXECUTION

3.01 EXAMINATION

Mounting structure to be installed by contractor to support desired displays in all locations. Verify that a separate conduit is in place for power and data to display unless fiber is being used. Verify that all control equipment has access to 120 VAC.

3.02 INSTALLATION

1. Support structure design depends on the mounting methods, display size, and weight. The structure design is critical and should be done only by a qualified individual. It is the customer's responsibility to ensure that the structure and mounting hardware are adequate.
2. It is the customer's responsibility to ensure that the installation meet local standards. The mounting hardware shall be capable of supporting all components to be mounted.
3. All mounted displays must be inspected by a qualified structural engineer.
4. Possible power and signal entrances are designated by etched markings. Separate conduit must be used to route the power, signal in wires, and signal out wires.
5. Displays must be grounded according to the provisions outlined in Article 250 of the National Electrical Code. The display must be connected to earth-ground. Proper grounding is necessary for reliable equipment operation and protects the equipment from damaging electrical disturbances and lightning.

END OF SECTION

CITY OF GARDENA – ROWLEY PARK

READER BOARD SIGN

FEBRUARY 19 2025 | David Volz Design

CITY OF GARDENA - ROWLEY PARK

READER BOARD SIGN

FEBRUARY 19 2025 | DVD David Volz Design

CITY OF GARDENA - ROWLEY PARK

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City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 17.A
Section: DEPARTMENTAL ITEMS - RECREATION & HUMAN SERVICES
Meeting Date: February 25, 2025

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: RESOLUTION NO. 6696, Approving the Renaming of the Freeman Park Baseball Field to Ichikawa Nippon Yakyu Field to Recognize the Long-Standing Relationship with our Japanese Sister City

COUNCIL ACTION REQUIRED:
Staff Recommendation: Discuss and Consider Adopting Resolution No. 6696

RECOMMENDATION AND STAFF SUMMARY:

On February 11, 2025, Mayor Tasha Cerda issued a directive to explore the renaming of Freeman Park's baseball diamond in anticipation of the upcoming sister city visit from Ichikawa, Japan, planned for July 2025. The directive was seconded by Mayor Pro Tem Rodney Tanaka. The proposed name change aims to celebrate the long-standing relationship between the City of Ichikawa and the City of Gardena since 1963.

Both cities share a deep appreciation for the sport of baseball, and the new name would honor this shared passion while welcoming the youth from Ichikawa to participate in the game.

The proposed name, Ichikawa Nippon Yakyu Field, reflects Japanese history and language. "Nippon" is an English spelling of the Japanese pronunciation of Japan (Nihon), meaning "the origin of the sun," often translated as "Land of the Rising Sun." "Yakyu" is the Japanese word for baseball, combining the characters for "field" and "ball." By incorporating the Japanese language and culture into the name, it will resonate deeply with both local residents and visitors.

Therefore, it is recommended that the City Council discuss the proposed name change, if approved a dedication ceremony would be held in July 2025.

FINANCIAL IMPACT/COST:
There will be a minor fiscal impact associated with this action, which will consist of the installation of signage.

ATTACHMENTS:
Resolution_6696.pdf

APPROVED:

_____

Clint Osorio, City Manager

Docusign Envelope ID: FCF35F61-6139-44F1-A0C7-52B8E79BD04D

RESOLUTION NO. 6696

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, APPROVING THE RENAMING OF THE FREEMAN PARK BASEBALL FIELD TO ICHIKAWA NIPPON YAKYU FIELD TO RECOGNIZE THE LONG-STANDING RELATIONSHIP WITH OUR JAPANESE SISTER CITY

WHEREAS, the City Council has considered a request to change the name of the Freeman Park Baseball Field to recognize and celebrate the long-standing relationship with the City of Ichikawa, Japan; and

WHEREAS, The City of Ichikawa, Japan established their Sister City relationship in 1963 and share a common appreciation for the sport of baseball; and

WHEREAS, the change would highlight their upcoming visit in July 2025, which would welcome youth coming to the City of Gardena to play the beloved sport; and

WHEREAS, the renaming of the Freeman Park Baseball Field would be in compliance with the Policy Guidelines for Naming of City Facilities established January 11, 2000.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA DOES FIND, DETERMINE AND RESOLVE AS FOLLOWS:

SECTION 1. The City Council of the City of Gardena, California approves the request and changes the name of Freeman Park baseball diamond to Ichikawa Nippon Yakyu Field; and

SECTION 2. That this resolution shall be effective immediately.

Docusign Envelope ID: FCF35F61-6139-44F1-A0C7-52B8E79BD04D

BE IT FURTHER RESESOLVED that the City Clerk shall certify to the passage and adoption of this resolution of said City; and shall make a minute of the passage and adoption thereof in the records of the proceedings of the City Council of said City in the minutes of the meeting at which the same is passed and adopted.

Passed, approved and adopted this 25th day February 2025.

_____
TASHA CERDA, Mayor

ATTEST:

_____
MINA SEMENZA, City Clerk

APPROVED AS TO FORM:

_____
CARMEN VASQUEZ, City Attorney

City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 19.A
Section: COUNCIL ITEMS
Meeting Date: February 25, 2025

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: RESOLUTION NO. 6697, Designating Certain Members of the Gardena City Council to serve as Representatives on the South Bay Council of Governments Governing Board

COUNCIL ACTION REQUIRED:
Staff Recommendation: Adopt Resolution No. 6697

RECOMMENDATION AND STAFF SUMMARY:
It is respectfully requested that the City Council adopt Resolution No. 6697. The bylaws of the South Bay Council of Governments (SBCCOG) require that cities designate their delegate and alternate to the SBCCOG by way of a resolution from each member city.

Council considered the assignments of Gardena's Council Delegates and Alternates to Outside Committees at their February 11, 2025, City Council Meeting. At that time Councilmember Mark E. Henderson was approved as the Alternate, to the Governing Board of the South Bay Cities Council of Governments; Councilmember Rodney G. Tanaka is still serving as the Delegate.

Therefore, this resolution is prepared pursuant to SBCCOG's requirements and includes the names of those approved at the February 11, 2025, Council Meeting.

FINANCIAL IMPACT/COST:
N/A

ATTACHMENTS:
Resolution No. 6697-Designate Representatives to SBCCOG.pdf

APPROVED:

_____
Clint Osorio, City Manager

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RESOLUTION NO.6697

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, DESIGNATING CERTAIN CITY COUNCIL MEMBERS TO SERVE AS REPRESENTATIVES ON THE SOUTH BAY CITIES COUNCIL OF GOVERNMENTS GOVERNING BOARD

WHEREAS, the City of Gardena, California, is a Member of the South Bay Cities Council of Governments; and

WHEREAS, Section B. of Article II of the Bylaws of the South Bay Cities Council of Governments requires that the "Governing Board Representative and Alternate Governing Board Representative for a Member shall be designated by a resolution of that Member's legislative body."

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, DOES HEREBY FIND, DETERMINE, AND RESOLVES, AS FOLLOWS:

SECTION 1. That Council Member Rodney G. Tanaka is designated to serve as its representative on the Governing Board of the South Bay Cities Council of Governments; and the City Council also resolves that Council Member Mark E. Henderson is designated to serve as the alternate representative on the Governing Board of the South Bay Cities Council of Governments in the event that Council Member Tanaka is unable to serve as a representative or is unable to attend the meetings of the Governing Board of the South Bay Cities Council of Governments.

SECTION 2. That a certified copy of this Resolution shall be sent to the Executive Director of South Bay Cities Council of Governments.

SECTION 3. That the Resolution shall be effective immediately.

Docusign Envelope ID: BE2A8DA8-881F-4FE1-AD7B-FC97F159F075

BE IT FURTHER RESOLVED that the City Clerk shall certify to the passage and adoption of this Resolution; shall cause the same to be entered among the original Resolutions of said City; and shall make a minute of the passage and adoption thereof in the records of the proceedings of the City Council of said City in the minutes of the meeting at which the same is passed and adopted.

Passed, approved, and adopted this ____ day of February, 2025.

_____
TASHA CERDA, Mayor

ATTEST:

_____
MINA SEMENZA, City Clerk

APPROVED AS TO FORM:

_____
CARMEN VASQUEZ, City Attorney

City of Gardena

Gardena City Council Meeting

AGENDA REPORT SUMMARY

Agenda Item No. 19.B
Section: COUNCIL ITEMS
Meeting Date: February 25, 2025

TO: THE HONORABLE MAYOR AND MEMBERS OF THE GARDENA CITY COUNCIL

AGENDA TITLE: RESOLUTION NO. 6695, Discuss and Consider Adopting Resolution No. 6695-City of Gardena Code of Conduct for Elected and Appointed Officials

COUNCIL ACTION REQUIRED:
Staff Recommendation: Discuss and Consider Adopting Resolution No. 6695.

RECOMMENDATION AND STAFF SUMMARY:

During the January 14, 2025, City Council meeting, a directive was given to staff by Councilmember Henderson and seconded by Mayor Pro Tem Tanaka for staff to develop a Code of Conduct for Council Members.

There are various federal, state, and local laws, regulations, and policies that establish legal and other obligations on Elected (hereinafter the term “Elected” refers to the Mayor, City Council, City Treasurer, and City Clerk) and Appointed (hereinafter the term “Appointed” refers to members of City of Gardena’s Commissions, Committees, and Boards) Officials' behavior and conduct. However, a comprehensive Code of Conduct has not been formally adopted in the past.

Although the original directive was for staff to develop a code of conduct for only Council Members, staff recommends that the City Council adopt a code of conduct for all City of Gardena Elected and Appointed Officials. In formulating the proposed Code of Conduct, staff referenced the Code of Conduct from various cities. These documents varied in both detail and scope. Staff used them as valuable reference points during the refinement of the proposed Code of Conduct before Council.

The proposed Code of Conduct is organized into four sections:

1. Ethics – This section provides guidance on ethical issues and questions of right and wrong. Areas in this section include general ethical principles, conflicts of interest, confidentiality, and political neutrality.

2. Conduct – This section describes the expected behavior of Elected and Appointed Officials in their interactions with each other, staff, constituents, and the public when representing the City of Gardena.

3. Implementation – This section provides that all current Elected and Appointed Officials with be provided with a copy of the newly adopted Code of Conduct and all current Elected and Appointed Officials will be asked to sign a statement acknowledging they have read and understand the Code of Conduct. Thereafter, candidates for elected office and applicants to commissions, committees, and boards will receive a copy of the Code of Conduct, and newly elected officials as well as newly appointed officials will receive a copy of the Code of Conduct and sign an acknowledgement that they have read and understood the document.

4. Compliance and Enforcement – This section details the City Council's authority and responsibility to enforce the Code of Conduct on behalf of the City, as well as the sanctions that may be imposed in the event of a Code of Conduct violation.

FINANCIAL IMPACT/COST:

N/A

ATTACHMENTS:

RESOLUTION No. 6695 Code of Conduct for Elected and Appointed Officials.pdf

APPROVED:

_____

Clint Osorio, City Manager

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RESOLUTION NO. 6695

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, ADOPTING CITY OF GARDENA CODE OF CONDUCT FOR ELECTED AND APPOINTED OFFICIALS

WHEREAS, the citizens of the Gardena are entitled to responsible, transparent, fair, and honest city government that operates in an atmosphere of respect and civility; and

WHEREAS, the City Council of the City of Gardena desires to adopt a Code of Conduct to: (1) Describe the standards of behavior to which its Elected (hereinafter the term "Elected" refers to the Mayor, City Council, City Treasurer, and City Clerk) and Appointed (hereinafter the term "Appointed" refers to members of City of Gardena's Commissions, Committees, and Boards) Officials aspire; (2)Provide an ongoing source of guidance to elected and appointed officials in their day-to-day service to the city; and (3) Promote and maintain high ethical standards, and;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDENA, CALIFORNIA, DOES HEREBY FIND, DETERMINE, AND RESOLVE, AS FOLLOWS:

SECTION 1. The Recitals set forth above are true and correct and are incorporated into this Resolution by this reference.

SECTION 2. City of Gardena Code of Conduct for Elected and Appointed Officials, Exhibit A of this Resolution, is hereby adopted.

SECTION 3. That this Resolution shall be effective immediately upon adoption.

SECTION 4. If any section, subsection, sentence, clause, or phrase of this Resolution is for any reason held to be invalid or unconstitutional by a decision of any court of competent jurisdiction, such decision shall not affect the validity of the remaining portions of this Resolution. The City Council hereby declares that it would have passed this Resolution and each and every section, subsection, sentence, clause, or phrase not declared invalid or unconstitutional without regard to whether any portion of this Resolution would be subsequently declared invalid or unconstitutional.

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BE IT FURTHER RESOLVED that the City Clerk shall certify to the passage and adoption of this Resolution; shall cause the same to be entered among the original Resolutions of said City; and shall make a minute of the passage and adoption thereof in the records of the proceedings of the City Council of said City in the minutes of the meeting at which the same is passed and adopted.

Passed, approved, and adopted this 25th day of February, 2025.

TASHA CERDA, Mayor

ATTEST:

MINA SEMENZA, City Clerk

APPROVED AS TO FORM:

CARMEN VASQUEZ, City Attorney

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EXHIBIT A

Docusign Envelope ID: 2F130847-A45C-410A-8EE3-405DFEE3283C

City of Gardena

Code of Conduct
For
Elected and Appointed Officials

Adopted _____ by Resolution No. 6695

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Introduction

The City of Gardena is a general law city governed by the council/manager form of government. The City Council, with the assistance of its advisory commissions, committees, and boards, makes policies and fundamental governmental decisions; the City Manager is charged with implementing those policies and decisions and administering the day-to-day affairs of the City with the assistance of his/her staff. The City Council has direct authority over the City Manager and the City Attorney; all other employees of the City are under the direct authority of the City Manager.

The citizens of the Gardena are entitled to responsible, transparent, fair, and honest city government that operates in an atmosphere of respect and civility. Accordingly, the Gardena City Council has adopted this code to:

1. Describe the standards of behavior to which its Elected (hereinafter the term "Elected" refers to the Mayor, City Council, City Treasurer, and City Clerk) and Appointed (hereinafter the term "Appointed" refers to members of City of Gardena's Commissions, Committees, and Boards) Officials aspire;

2. Provide an ongoing source of guidance to Elected and Appointed officials in their day-to-day service to the city; and

3. Promote and maintain high ethical standards.

The citizens of Gardena are entitled to have fair, ethical and accountable local government, which has earned the public's full confidence for integrity. In keeping with the City of Gardena's commitment to excellence, the effective functioning of democratic government therefore requires that:

- Elected and Appointed officials comply with both the letter and spirit of the laws and policies affecting the operations of government;
- Elected and Appointed officials be independent, impartial and fair in their judgment and actions;
- public office be used for the public good, not for personal gain; and
- public deliberations and processes be conducted openly, unless legally confidential, in an atmosphere of respect and civility.

This Code addresses selective aspects of the governance of the City and supplements but does not supplant other laws and rules that prescribe the legal responsibilities of Elected and Appointed officials. Those include, among others, the California Constitution, various provisions of the California Government Code (including the Brown Act and the Political Reform Act) and Labor Code, federal laws prohibiting discrimination and harassment, and the provisions of the City's own Municipal Code. Elected and Appointed officials should be familiar with these laws to ensure that they exercise their responsibilities properly.

It is not possible for a code of this kind to anticipate and provide a rule of conduct for all situations. At bottom, it is expected that Elected and Appointed officials will manage

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their behavior in a manner consistent with the rules that follow, respect the chain of command and behave within the bounds of their authority. It is also expected that Elected and Appointed officials will treat each other, City employees, residents and business people with courtesy and respect in a manner that reflects well on the city.

To this end, the Gardena City Council adopts this Code of Conduct for Elected and Appointed Officials to assure public confidence in the integrity of local government and its effective and fair operation.

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A. ETHICS

The Ethics section of the City's Code of Conduct offers guidance on matters pertaining to ethical considerations, addressing questions of right and wrong.

1. Act in the Public Interest. Recognizing that stewardship of the public interest must be their primary concern, Elected and Appointed officials should work for the common good of the people of Gardena and not for any private or personal interest, and provide for the fair and equal treatment of all persons, claims and transactions coming before them. Elected and Appointed officials will serve the community as servant leaders, putting aside self-interest and consider the needs of all residents. Elected and Appointed officials should seek to implement transparency and ethical practices, so as to ensure the public's trust and avoid any perception of wrongdoing.

2. Comply with both the spirit and the letter of the Law and City Policy. Elected and Appointed officials shall comply with the laws of the nation, the State of California and the City of Gardena in the performance of their public duties.

3. Conduct of Elected and Appointed officials. The professional and personal conduct of Elected and Appointed officials while exercising their office should be above reproach and seek to avoid even the appearance of impropriety. Elected and Appointed officials should refrain from abusive conduct, personal charges or verbal attacks upon the character or motives of other Elected and Appointed officials of the City Council, of other commissions, committees, or boards of the City, of staff or the public.

4. Conduct at Public Meetings. Elected and Appointed officials should prepare themselves for public issues, listen courteously and attentively to all public discussions before the body, and focus on the business at hand.

5. Decisions Based on Merit. Elected and Appointed officials should base their decisions on the merits and substance of the matter at hand, rather than on unrelated considerations.

6. Conflicts of Interest.

    a. Elected and Appointed officials should seek to ensure their independence and impartiality on behalf of the common good, and their compliance with conflict-of-interest laws. Unless specifically authorized by law, Elected and Appointed officials should not use their official positions to influence government decisions in which they have (a) a material financial interest, (b) a contractual interest, or (c) an impermissible personal bias (a completely closed mind).

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b. Elected and Appointed officials who have a potential conflict of interest regarding a particular decision shall disclose the matter to the City Attorney to analyze the potential conflict. If advised by the City Attorney to seek advice from the Fair Political Practices Commission (FPPC) or other appropriate state agency, an Elected or Appointed official should not participate in a decision unless and until he or she has requested and receives advice allowing the Elected or Appointed official to participate. An Elected or Appointed official shall diligently pursue obtaining such advice. The Elected or Appointed official shall provide the Mayor and the City Attorney a copy of any of any written request or advice and conform his or her participation to the advice given. In providing assistance to Elected and Appointed officials, the City Attorney represents the city and not individual Elected or Appointed officials.

c. Each year Elected and Appointed officials shall file a Form 700, which requires the disclosure of designated investments, interests in real property, sources of income and gifts in accordance with the City's conflict of interest code. Where a conflict is determined to exist, the Elected or Appointed official should disclose the conflict, leave the dais during the consideration of the item, and not otherwise seek to influence the decision in any way.

d. Except as provided in Government Code Section 1090 et seq., no Elected or Appointed official shall have a financial interest in any contract made by the City.

7. Gifts and Favors. Elected and Appointed officials shall fully comply with the regulations, prohibitions and disclosure requirements set forth under law concerning the receipt of gifts, honorariums, and any other special favors. Elected and Appointed officials should refrain from accepting any gifts, favors or promises of future benefits where it might compromise their ability to act in the public's interest.

8. Confidential Information. Elected and Appointed officials must maintain the confidentiality of all closed session information and materials, and any other materials or verbal information which has been identified as being confidential or privileged. Elected and Appointed officials shall neither disclose confidential information without proper legal authorization, nor use such information to advance their personal, financial or other private interests.

9. Use of Public Resources. Elected and Appointed officials shall not use public resources for any personal purpose (e.g., City staff time, equipment, vehicles, supplies or facilities), whether political or otherwise. The use of public resources must always be tied with a valid public purpose.

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10. Representation of Private Interests.

    A. In keeping with their role as stewards of the public interest, while in office, members of the City Council shall not appear on behalf of the private interests of third parties before the City Council or any other subservient body of the City.

    B. For a period of one year after leaving office, members of the City Council are prohibited from making any formal or informal appearances before the City, on behalf of third parties, in exchange for compensation, when it is for the purpose of trying to influence a legislative or administrative action involving a permit, license, grant, contract, or the purchase or sale of goods or property. Government Code 87406.3.

11. Advocacy. Elected and Appointed officials should seek to represent the official policies or positions of the City Council, or of their respective commission, committee, or board, to the best of their ability when designated as delegates for that purpose. Whenever an Elected or Appointed official chooses to express their individual opinions on a matter, they should make it clear when those comments do not represent the position of the body of which they are a member or the City of Gardena. Elected and Appointed officials have the right to endorse candidates for all Council seats or other elected offices. It is inappropriate to mention or display endorsements during Council meetings, or commission, committee, or board meetings, or other official City meetings.

12. Policy Role of Elected and Appointed officials. Elected and Appointed officials shall respect and adhere to the Council-Manager structure of the City of Gardena government as outlined in the Gardena City Code. In this structure, the City Council determines the policies of the City with the advice, information and analysis provided by City staff, commissions, committees, and boards and the public. Except as provided by the City Code, Elected and Appointed officials shall not interfere with the administrative functions of the City or the professional duties of staff; nor shall they impair the ability to implement Council policy decisions.

13. Positive Workplace Environment**.** Elected and Appointed officials shall support the maintenance of a positive and constructive workplace environment for City employees and for citizens and businesses dealing with the City. Elected and Appointed officials shall recognize their special role in dealings with City employees to in no way create the perception of inappropriate direction to staff.

14. Ethics Training: Elected and Appointed officials must comply with the ethics training requirement outlined under Assembly Bill 1234 (Government Code Section 53235).

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B. CONDUCT

The conduct section of the City's Code of Conduct aims to articulate the expected treatment of Elected and Appointed officials towards one another, City staff, constituents, and other individuals encountered while representing the City of Gardena. "Respect" serves as a pervasive and unwavering theme throughout all the conduct guidelines. Elected and Appointed officials are tasked with upholding exemplary behavior consistently. The key principle underlying these guidelines is the demonstration of respect for each individual, employing both words and actions. This emphasis on respect serves as a guiding principle, assisting Elected and Appointed officials in making the right choices, even in the most challenging situations.

1. Elected and Appointed Officials' Conduct with Each Other

Elected and Appointed officials are individuals with a wide variety of backgrounds, personalities, values, opinions, and goals. Despite this diversity, all have chosen to serve in public office in order to preserve and protect the community. In all cases, this common goal should be acknowledged even though individuals may not agree on every issue.

a. *Honor the role of the Mayor or Chairperson in maintaining order*
It is the responsibility of the Mayor or Chairperson to keep the comments of Elected and Appointed officials on track during public meetings. Elected and Appointed officials should honor efforts by the Mayor or Chairperson to focus discussion on current agenda items. If there is disagreement concerning any matter, those objections should be voiced politely and with reason, following the adopted parliamentary guidelines.

b. *Practice civility and decorum in discussions and debate*
Difficult questions, tough challenges to a particular point of view, and criticism of ideas and information, are legitimate elements of debate by a free democracy in action. However, free debate does not require nor justify the making of belligerent, personal, impertinent, slanderous, threatening, abusive, or disparaging comments. Elected and Appointed officials should endeavor to keep each other accountable for professional decorum. Do not interrupt or speak over others, striving to understand various perspectives and opinions while encouraging cooperation and collaboration.

c. *Demonstrate effective problem-solving approaches*
Elected and Appointed officials have a public stage and have the responsibility to show how individuals with disparate points of view can find common ground and seek a compromise that benefits the community as a whole.

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2. Elected and Appointed Officials' Conduct with City Staff

Governance of a City relies on the cooperative efforts of elected officials, who set policy, appointed officials who advise the elected, and City staff who implement and administer the Council's policies. Therefore, every effort should be made to be cooperative and show mutual respect for the contributions made by each individual for the good of the community.

a. Treat all staff as professionals

Clear, honest communication that respects the abilities, experience, and dignity of each individual is expected. Poor behavior towards staff is not acceptable.

b. *Govern, do not direct*

The Mayor and Council Members' role is to set policy and not to provide day to day direction to city employees. Questions of City staff and/or requests for additional information shall be directed to the City Manager, unless the City Manager indicates otherwise.

c. *Do not disrupt City staff from their jobs*

Elected and Appointed officials should not disrupt City staff while they are in meetings, on the phone, or engrossed in performing their job functions in order to have their individual needs met. Elected and Appointed officials should not attend City staff meetings, unless requested by staff.

d. *Personnel Matters*

Personnel matters must be handled by the city manager and HR department, working together with the employee and department at issue. Elected and Appointed officials should not get involved in personnel matters, whether to encourage or discourage a particular outcome, or to help investigate a concern. Elected and Appointed officials involvement tends to increase litigation against the City, so it should be avoided. All concerns should be directed to the City Manager, who has the responsibility to investigate and make final decisions in accordance with California law and the City's rules.

e. *Never publicly criticize an individual employee*

Elected and Appointed officials should never express concerns about the performance of a city employee in public, to the employee directly, or to the employee's manager. Concerns about staff performance should only be made to the City Manager through private correspondence or conversation. Such concerns can then be addressed in accordance with the City's personnel rules.

f. *Do not retaliate or threaten to retaliate against employees as a result of disagreements over policy recommendations.*

It is critical to the success of the city that its employees enjoy a workplace free of the fear of retaliation. The city takes great pride in its creativity and its receptivity to new and different ideas; creativity is fostered by an open and nonjudgmental atmosphere where candor is not penalized. City employees are hired to offer

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their professional judgments and opinions. Elected and Appointed officials are certainly free to disagree with those judgments; indeed, those officials ultimately may have the final word. But those disagreements must not extend to threats or generate fear of reprisal. Elected and Appointed officials enjoy substantial authority within City Hall; this authority must not be exercised in a manner that intimidates staff and degrades morale with resulting damage to the fabric of the organization.

g. *Do not get involved in administrative functions*
Elected and Appointed officials acting in their individual capacity should not attempt to influence City staff on the making of appointments, awarding of contracts, selecting of consultants, processing of development applications, or granting of City licenses and permits.

h. *Do not solicit political support from staff*
Elected and Appointed officials should not solicit any type of political support (financial contributions, display of posters or lawn signs, name on support list, other campaign-related assistance, etc.) from City staff while they are working. City staff have the constitutional right to support political candidates of their own choosing, but all such activities must be done on the employee's own time, away from the workplace, and not in uniform.

i. *No Attorney-Client Relationship*
The City Attorney represents the city and not any individual Elected or Appointed official.

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3. Elected and Appointed Officials' Conduct with the Public

Making the public feel welcome is an important part of the democratic process. No signs of partiality, prejudice or disrespect should be evident on the part of individual Elected and Appointed officials toward an individual participating in a public forum. Every effort should be made to be fair and impartial in listening to public testimony.

a. *Be welcoming to speakers and treat them with respect*
   While questions of clarification may be asked, the official's primary role during public testimony is to listen.

b. *Be fair and equitable in allocating public hearing time to individual speakers*
   The Mayor or Chairperson will follow the pre-established time allocation for each speaker and seek to apply them equally to every speaker in a fair and impartial manner. If there is a need to shorten the allotted time for speakers, the chair should announce those limits prior to the start of the agenda item whenever possible. Each speaker may only speak once during any particular agenda item unless the Mayor or Chairperson requests additional clarification later in the process. After the close of the public hearing, no more public testimony will be accepted unless the Mayor or Chairperson reopens the public hearing for a limited and specific purpose.

c. *Practice active listening*
   Elected and Appointed officials should seek to demonstrate active listening and interest in each speaker's presentation, and to avoid any pessimistic body language.

d. *Maintain an open mind*
   Members of the public deserve an opportunity to influence the thinking of Elected and Appointed officials.

e. *Ask for clarification, but avoid debate and argument with the public*
   Elected and Appointed officials should not interrupt a speaker during a presentation. However, an Elected or Appointed officials can respectfully ask the Mayor or Chairperson for a point of order if a speaker is off the topic.

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4. Council Conduct with Other Commission, Committee, or Board Members

The City Council has established certain commissions, committees, and boards as a means to assist the Council in making decisions, and in gathering more community input. Citizens who serve as members of the City's various commissions, committees, and boards, become more involved in government and serve as advisors to the City Council. They are a valuable resource to the City's leadership and should be treated with appreciation and respect.

a. *If attending a Commission, Committee, or Board meeting, be careful to only express personal opinions*

   Council Members may attend any commission, committee, or board meeting, which are always open to any member of the public. However, they should be sensitive to the way their participation could be viewed as unfairly affecting the process.

b. *Limit contact with Commission, Committee, and Board members to questions of clarification*

   It is acceptable for Council Members to contact commission, committee, or board members. However, it would be inappropriate to lobby one of these members on behalf of an individual, business, or developer, and vice versa.

c. *Be respectful of diverse opinions*

   A primary role of commission, committee, and board members is to represent the many points of view in the community, and to provide the Council with advice based on a full spectrum of concerns and perspectives. Council Members may have a closer working relationship with some individual members, but they should be fair and respectful of every citizen who chooses to serve as a member of one of the City's commissions, committees, or boards.

d. *Keep political support away from public forums*

   Commission, committee, and board members have the right to offer their political support to a Council Member in their private capacity, but not while conducting official City duties. Likewise, Council Members may support any commission, committee, or board member who may be running for office, but such support should not be expressed during the course of any City funded meeting.

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C. IMPLEMENTATION

As an expression of the standards of conduct for Elected and Appointed Officials, the Code of Conduct is intended to be self-enforcing. It therefore becomes most effective when Elected and Appointed Officials are thoroughly familiar with it and embrace its provisions.

For this reason, following its adoption on February 25, 2025, the City Clerk shall provide all current Elected and Appointed Officials with a copy of the newly adopted Code of Conduct and all current Elected and Appointed Officials will be asked to sign a statement (example below) acknowledging they have read and understand the Code of Conduct.

Thereafter:

- The City Clerk shall provide a copy of the Code of Conduct to candidates for Mayor, City Council, City Treasurer, City Clerk and applicants to Commissions, Committee, and Boards.
- The City Clerk shall provide a copy of the Code of Conduct to all Elected and Appointed Officials entering office and Elected and Appointed Officials entering office will be asked to sign a statement (example below) acknowledging they have read and understand the Code of Conduct.

Example:

I affirm that I have read and understand the City of Gardena Code of Conduct for Elected and Appointed Officials.

Name: _____ Position: _____

Signature: _____ Date: _____

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D. Compliance and Enforcement

The Gardena Code of Conduct expresses standards of ethical conduct expected for the Mayor, Gardena City Council, City Treasurer, City Clerk, members of commissions, committees, and boards. In addition, all Elected and Appointed officials shall be required to take all training mandated by law, including AB 1234 training and AB 1661 training.

Elected and Appointed officials themselves have the primary responsibility to assure that ethical standards are understood and met, and that the public can continue to have full confidence in the integrity of government. The chairs of commissions, committees and boards and the Mayor have the additional responsibility to intervene when Elected and Appointed officials' actions appear to be in violation of the Code of Conduct or when these actions are brought to their attention.

The City Council may impose sanctions on members of commissions, committees, and boards whose conduct does not comply with the City's Code of Conduct such as reprimand or formal censure. In addition, the City Council may also act to remove members of commissions, committees and boards from office or position who violate the provisions of this Code.

The City Council may impose sanctions on Elected officials whose conduct does not comply with the City's Code of Conduct such as reprimand or formal censure. Serious violations could lead to additional sanctions as deemed appropriate by the City Council. The definition of a “serious violation” is not set forth by law, but in determining the type of sanction to be considered or imposed, the following factors may be considered:

1. Nature of the violation *(conflict of interest, financial disclosures, actions of harassment, abusive conduct, open process of Government, Brown Act, City ordinances and policies, failure to disclose campaign contributions when voting on an item to award an agreement/contract,* etc.)
2. Prior violations by the same individual
3. Other factors which bear upon the seriousness of the violation *(failure to comply with the laws of the United States of America, State of California, and the City of Gardena in the performance of their public duties,* etc.)