PLEASE SILENCE ALL ELECTRONIC COMMUNICATION DEVICES. THANK YOU.

NOTICE OF POSSIBLE QUORUM OF THE CITY OF BUCKEYE PLANNING AND ZONING COMMISSION OR OTHER COUNCIL APPOINTED BOARD: PLEASE NOTE THAT THERE MAY BE A QUORUM PRESENT BUT THERE WILL BE NO VOTING TAKING PLACE BY THE CITY PLANNING AND ZONING COMMISSION OR OTHER COUNCIL APPOINTED BOARD AT THIS MEETING.

CITY OF BUCKEYE
REGULAR COUNCIL MEETING
AUGUST 17, 2021
AGENDA

City Council Chambers
530 E. Monroe Ave.
Buckeye, AZ 85326
6:00 PM

Accessibility for all persons with disabilities will be provided upon request. Please telephone your accommodation request (623) 349-6911, 72 hours in advance if you need a sign language interpreter or alternate materials for a visual or hearing impairment.

Voting Members will either attend in person or by telephone conference call or video presentation. Items listed may be considered in any order

IMPORTANT NOTICE REGARDING PUBLIC PARTICIPATION

This meeting will be open to the public; masks will be required when social distancing is not possible unless you have received the COVID-19 vaccine. If you would like to make a public comment, either in person or remotely, please review the information on the City's website and complete and submit the comment form found here: https://www.buckeyeaz.gov/government/city-clerk/meeting-agendas-minutes/meetings-agendas-minutes

1. Call to Order/Invocation/Pledge of Allegiance/Roll Call

2. Comments from the Public- Members of the audience may comment on any item of interest.
Council Action: Open Meeting Law does not permit Council discussion of items not specifically on the agenda

3. Awards/Presentations/Proclamations

4. Minutes

4.A Council to take action on approval of the minutes of the June 15, 2021 Special Council Meeting and Executive Session, June 15, 2021 Regular Council Meeting, July 6, 2021 Special Council Meeting and Executive Session, July 6, 2021 Council Workshop, and July 6, 2021 Regular and Special Council Meeting.

5. Expenditures

5.A Council to take action on the request to ratify the payment of the accounts payable expenditures made. Copies of invoices are available at City Hall.

Summary: Council to take action on the request to ratify the accounts payable expenditures made. Copies of invoices are available at City Hall.

6. CONSENT AGENDA ITEMS / NEW BUSINESS

Approval of items on the Consent Agenda -All items with an (*) are considered to be routine matters and will be enacted by one motion and vote of the City Council. There will be no separate discussion of these items unless a Council member requests, in which event the item will be removed from the consent agenda and considered in its normal sequence

***6.A** Council to take action on the appointment of Martin Garcia Enriquez as a Regular Member of the Community Services Advisory Board with a term expiration date of December 2025.

Summary: The City encourages community involvement in our programs through our boards and commissions. Martin Garcia Enriquez will fill a vacant seat on the Community Services Advisory Board.

Staff Liaison: Summer Stewart, Deputy City Clerk, sstewart@buckeyeaz.gov, (623) 349-6914

***6.B** Council to take action on the removal of Nathan Balos, Anakaren Almonte Montelongo, Kaija Martin, Kayla Black, Kelsi Hyer, and John Rico as regular members of the Buckeye Youth Council, and the appointment of Natalie Tierney, Teuila Lafi, Ariana Flores, Ryden Saiz, Vittoria Campanile, and Summer Elliott as regular members of the Buckeye Youth Council, with a term expiration date of August, 2023.

Summary: The City encourages community involvement in our programs though our boards and commissions. The Buckeye Youth Council (BYC) consists of a diverse group of youth members representing all City communities and informs the City Council on issues related to the youth. Members are removed when they are no longer eligible to serve. Nathan Balos, Kaija Martin and Anakaren Almonte Montelongo are no longer eligible to serve as they have just graduated from high school. Kayla Black, Kelsi Hyer and John Rico have resigned from the Buckeye Youth Council. Natalie Tierney, Teuila Lafi, Ariana Flores, Ryden Saiz, Vittoria Campanile, and Summer Elliott are new applicants seeking appointment to the Buckeye Youth Council.

Staff Liaison: Maria Riebs, Assistant to Council, mriebs@buckeyeaz.gov, (623) 349-6955

***6.C** Council to take action on Vehicle Lease Agreement V202-08-BKY ("Lease") between the City of Buckeye ("Buckeye") and Area Agency on Aging, Region One, Incorporated ("Area Agency") for lease vehicles for a term of one year ending June 30, 2022. The vehicles will be utilized for home delivered meal and transportation service programs for the City of Buckeye Senior Program; authorizing the City Manager to approve, execute and deliver all current and future documents in connection with the Lease between Area Agency and Buckeye, including any Amendments thereto.

Summary: The agreement between the City of Buckeye and Area Agency on Aging Region One Incorporated, allows the City of Buckeye Senior Program to utilize three Ford Escapes and one

Starcraft Allstar Mini-ADA bus that are owned by Area Agency on Aging and leased to the City of Buckeye Senior Program to conduct home delivered meal programs and transportation services. The City of Buckeye is responsible for all vehicle maintenance, insurance requirements and all other operations expenses related to the service of the these vehicles. The City of Buckeye can lease these vehicles for $1 each per fiscal year.
Staff Liaison: Philip Yabes, Senior Center Manager, pyabes@buckeyeaz.gov (623) 349-6604

***6.D** Council to take action on the Memorandum of Understanding (MOU) between the City of Buckeye and the Friends of the Buckeye Public Library (FBPL), an Arizona non-profit corporation, relating to each party's mutually beneficial support of the other, and authorizing the City Manager to execute and deliver said memorandum on behalf of the City.
Summary: The Friends of the Buckeye Public Library (FBPL) was formed on March 22, 1991 and its mission is to enhance early literacy programs, activities, events and special projects within the Buckeye Public Library System (BPLS) through fundraising efforts and financial contributions. This agreement will define the scope of services for each party.
Staff Liaison: Jana White, Library Manager, jwhite@buckeyeaz.gov, (623) 349-6321

***6.E** Council to take action on the Construction Contract (No. 2021036) between the City of Buckeye, an Arizona municipal corporation, and LightDay Solar, Inc., an Arizona corporation for labor, materials, equipment and services required for the purchase and installation of Emergency Generators at six (6) locations throughout the city of Buckeye, and authorizing the Mayor to execute and deliver said contract on behalf of the city.
Summary: As part of the Capital Improvement Program, emergency backup generators will be installed at six (6) locations citywide designated as Emergency Shelters by the Red Cross.
Staff Liaison: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225,

***6.F** Council to take action on the Sale of Real Property-Sonoran Ridge Water System, IFB Solicitation #2021041 between the City of Buckeye, an Arizona municipal corporation identified as the Seller and Jen Arizona 36, LLC, Michael K. Jesberger identified as the Purchaser; authorizing the Mayor to execute and deliver said Purchase Agreement, Bill of Sale and Special Warranty Deed on behalf of the City for $1,001,000; and authorizing the Mayor or City Manager to approve, execute, and deliver any other Transfer Instruments or transaction documents required for closing escrow.
Summary: The Construction and Contracting Division issued IFB solicitation #2021041 for Sale of Real Property-Sonoran Ridge Water System. The Sonoran Ridge Water System, including all facilities, pumps, waterlines, meters and/or other equipment, properties and rights used or useful to provide water service in the Sonoran Ridge Water System including the Well, well sites, easements, leaseholds and other interests in the real property, commonly known as Maricopa County Assessor's Parcel No. 502-09-011B. The Construction and Contracting Division received one bid from Jen Arizona 36, LLC, Michael K. Jesberger, in the amount of $1,001,000, for the purchase of property pending Council approval.
Staff Liaison: Chris Williams, Construction and Contracting Manager,

cwilliams@buckeyeaz.gov, (623) 349-6225; Alisha Solano, Water Resources Director, asolano@buckeyeaz.gov, (623) 349-61013

***6.G** Council to take action on Task Order No. 15 (Contract 2016-020-032) between the City of Buckeye, an Arizona municipal corporation, and Kimley-Horn and Associates, Inc., an Arizona corporation, to provide preliminary design services for roadway intersection improvements to Watson Road and Broadway Road; and authorizing the Mayor to execute and deliver said Task Order on behalf of the City.

Summary: As part of the Capital Improvement Program Kimley-Horn and Associates, Inc. have been selected to develop the preliminary design for the ultimate 7-lane intersection alignment and footprint, to develop interim widening alignment and footprint alternatives, and to develop a Basis of Design Report, Preliminary (15% level) Design Plans, and cost estimates for the interim widening of Watson Road and Broadway Road.

Staff Liaison: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225

***6.H** Council to take action on the Design Services Contract (No. 2021021) between the City of Buckeye, an Arizona municipal corporation, and Hazen and Sawyer, a New York corporation, for services required to complete the design of Farallon Water Campus No. 16; and authorizing the Mayor to execute and deliver said Contract on behalf of the City.

Summary: The design of Farallon Water Campus No. 16 is part of the Capital Improvement Program. This will be a regional water campus intended to serve an area of approximately 4.912 acres, including residential, industrial and commercial land use. It is anticipated at build-out a total maximum day water demand for Farallon Water Campus No. 16 will be approximately 18.93 MGD. A Master Plan was created by Hilgart Wilson and completed in November 2020. The Construction and Contract Division issued a Request for Qualification (RFQ) for the design of the Water Campus on November 10, 2020 and a Pre-Submittal Conference was help on November 19, 2020. Statement of Qualifications (SOQs) were due on January 21, 2021 and six firms submitted their SOQs. An Evaluation Committee reviewed the SOQs based on the criteria set forth in RFQ. It was determined by the Evaluation Committee that Hazen and Sawyer is the best suited to do the design of Water Campus No. 16. The amount of this contract is$ 6,720.682.

Staff Liaison: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225

***6.I** Council to take action on the Delivery Order No. 8 (Job Order Contract No. 2019012.04) between the City of Buckeye, an Arizona municipal corporation, and PCL Construction, Inc., a Colorado corporation, for labor, materials, equipment and services required to upgrade the Central Wastewater Treatment Plant (WWTP), Train C; and authorizing the Mayor to execute and deliver said Delivery Order on behalf of the City.

Summary: As part of last fiscal year's Capital Improvement Program, the Central Wastewater Treatment Plant Phase l upgrades to Train A and B were completed. Approved in FY 21/22 CIP is Phase II rehabilitation of Train C. PCL Construction will be completing the work needed for this phase of the rehabilitation and is one of the City's Job Order Contactors for Wastewater

Treatment Infrastructure. The contract amount for Phase II is $1,995,308.00.
Staff Liaison: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225

***6.J** Council to take action on the expenditure of not to exceed $186,000 related to the purchase of chemicals for the disinfection process for water treatment for Fiscal Year 2021-2022 through Hill Brothers Chemical Company, a California corporation.

Summary: Water Production is requesting approval to purchase chemicals to treat drinking water utilizing Buckeye's Contract No. 2018014 with Hill Brothers Chemicals. The purchase of chemicals will allow the Water Resources Department to properly treat and disinfect drinking water to stay in compliance with EPA standards in a budgeted amount not to exceed $186,000.
Staff Liaison: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225

***6.K** Council to take action on Task Order No. 4 to the On-Call Consulting for Engineering and Architectural Services Civil Plan Review Contract (No. 2016-020-043) between the City of Buckeye, an Arizona municipal corporation, and Michael Baker International, Inc., a Pennsylvania corporation, related to the continuation of Civil Plan Review Services; and authorizing the Mayor to execute and deliver said Task Order on behalf of the City.

Summary: The Engineering Department is requesting additional funds through Task Order No. 4 to keep up with the current demand for Civil Plan Review Services. Michael Baker International, Inc. will provide assistance with civil plan reviews and other project related services in the budgeted amount not to exceed $175,000.
Staff Liaison: Chris Williams, Construction & Contracting Manager, cwilliams@buckeyeaz.gov, 623-349-6225

***6.L** Council to take action on the expenditure of not to exceed $150,000 for Civil Plan Review Services for Fiscal Year 2021-2022 through Sunrise Engineering, Inc., an Arizona corporation.

Summary: The City of Buckeye's Engineering Department is requesting assistance to keep up with current demand for civil plan review services utilizing the City of Buckeye's Cooperative Contract Addendum (CCA) No. 2021006 with Sunrise Engineering Services (SEI) Expiration - 08/16/21. Not to exceed $150,000.
Staff Liaison: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225

***6.M** Council to take action on the Contraction Manager at Risk Contract (2021044) between the City of Buckeye, an Arizona municipal corporation, and ForeSite Design and Construction, Inc., an Arizona corporation, for labor, materials, equipment and services required to complete the Police Training Facility; and authorizing the Mayor to execute and deliver said Contract on behalf for the City.

Summary: As part of the Capital Improvement Program, the Police Department has requested the Construction and Contracting Division construct a new Police Training Facility. This contract between the City of Buckeye and ForeSite Design and Construction, Inc. is for the

construction of a 17,500 square foot facility for the Police/SWAT Departments to be utilize for firearm situational training and situational/hand to hand combat training. It will include a large auditorium style classroom, storage for ammunition, a gunsmithing area, and a new gun safe room with explosion proof walls. Total amount of this contract is $5,858,404.
Staff Liaison: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225

***6.N** Council to take action on the Professional Service Agreement (No. 2021028.1) between the City of Buckeye, an Arizona municipal corporation, and National Demographics Corporation, in partnership with Bruce Adelson of Federal Compliance Consulting, LLC. a Maryland corporation, to assist the City in the redistricting process by preparing plans for district boundaries; and authorizing the Mayor to execute and deliver said Agreement on behalf of the City.

Summary: The City of Buckeye's Clerks Office is in need of professional services to assist the City in the redistricting process. The Request for Proposals was issued on Thursday, April 15, 2021. There was no need for a pre-bid meeting. After a review of the proposals, an evaluation team of five determined that National Demographics Corporation (NDC) in partnership with Bruce Adelson of Federal Compliance Consulting, LLC was responsive and responsible and it is recommended they be awarded this agreement in the amount not to exceed $106,450.
Staff Liaison: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov (623) 349-6225

***6.O** Council to take action on Task Order No. 16 (Contract 2016-020-032) between the City of Buckeye, an Arizona municipal corporation, and Kimley-Horn and Associates, Inc., an Arizona corporation, to provide final design services for roadway widening improvements to Miller Road between Lower Buckeye Road to Pima Street; and authorizing the Mayor to execute and deliver said Task Order on behalf of the City.

Summary: As part of the Capital Improvement Program, Kimley-Horn and Associates have been selected to develop the final design for the ultimate 7-lane widening of Miller Road between Lower Buckeye Road and Pima Street. This ultimate layout will take into account the west half street widening currently being designed by HilgartWilson.
Staff Liaison: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225

***6.P** Council to take action on Resolution No. 51-21 accepting a Petition for Formation of a Street Lighting Improvement District; declaring its intention to form a Street Lighting Improvement District; designating such District as the "City of Buckeye Street Lighting Improvement District No. 2021-SLID-002"; providing for the annual levy of taxes or assessments equally apportioned upon all of the non-public property owners in the District to purchase energy for the lighting of public streets and parks within and adjacent to the District; and ordering recording and filing of this Resolution.

Summary: Street Lighting Improvement Districts (SLIDs) are established to purchased (and not generate) energy for street lighting or public park lighting within the District and adjacent streets

so that the costs are not borne by the City in its Highway User Revenue Fund.
Staff Liaison: Scott Lowe, Public Works Director, slowe@buckeyeaz.gov, (623) 349-6815

***6.Q** Council to take action on Resolution No. 52-21 ordering the Work as described in Resolution No. 51-21 forming City of Buckeye Street Lighting Improvement District No. 2021-SLID-002; and ordering recording and filing of this Resolution.

Summary: Street Lighting Improvement Districts (SLIDs) are formed in the City of Buckeye to assess the owners within the development for the cost of the electricity for the street lights within the boundaries of a SLID, including any public road street lighting that is benefit to the SLID. SLIDs are established to purchase (and not generate) energy for street or public park lighting within a SLID and adjacent streets so that the cost are not borne by the City in its general HURF fund; though there are administrative services provided by the City.
Staff Liaison: Scott Lowe, Public Works Director, slowe@buckeyeaz.gov, (623) 349-6815

***6.R** Council to take action on the expenditure of General Funds to purchase twenty-two (22) vehicles with related emergency lighting and equipment for the Police Department utilizing various State and local contracts for an amount not to exceed $1,400,000; and authorizing the City Manager or designee to execute and deliver all related documents necessary for the purchases.

Summary: Public Works requests approval to purchase replacement and additional Police Patrol vehicles and ancillary equipment, in accordance with the City Vehicle Replacement Policy. The purchase is budgeted in the Fiscal Year 2021-2022 annual appropriation with a total cost not-to-exceed $1,400,000. The purchases will be made through various Cooperative Agreements; including the asset and capitalization. Thirteen (13) of which are replacement vehicles budgeted for Fiscal Year 2021-2022 according to the City's Vehicle Replacement Policy, comprising ten (10) Chevrolet Tahoe and two (2) Ford F-250 patrol vehicles, and one (1) undercover vehicle, and nine (9) additional Chevrolet Tahoe are new additions to the fleet needed to equip the six (6) added Patrol Officers, two (2) School Resource Officers, and one (1) Patrol Sergeant approved during the Fiscal Year 2021-2022 budget process.
Staff Liaison: Scott Lowe, Public Works Director , slowe@buckeyeaz.gov, 623-349-6815

***6.S** Council to approve a no cost property lease between the Buckeye Union High School District No. 201 and the City of Buckeye to provide a site for street sweeper debris disposal, in exchange for sweeper operations on Energy Way; and authorizing the Mayor or the City Manager to execute and deliver said lease on behalf of the City.

Summary: Street sweeping for the communities within districts 4 and 5 will be more efficient if there were a location to stage a dumpster for debris accumulated within the sweepers. The Buckeye Union High School District owns property adjacent to the Airport Road Water campus that is walled in and available so that Public Works can stage a dumpster for the exclusive use of the sweepers. This will eliminate the need to bring sweepers back to the Public Works Yard for regular service, thereby increasing the efficiency of the routes. This property lease is at no financial cost; however, in exchange, the City will regularly sweep Energy Way from Verrado Way west to its termination (Energy Way in this location is a private street owned and maintained by Buckeye Union High School District). The term of the lease is five years, unless

sooner terminated with 30 days notice by either party.
Staff Liaison: Scott Lowe, Public Works Director, slowe@buckeyeaz.gov, (623) 349-6815

***6.T** Council to take action on Resolution No. 53-21 authorizing the submission of a grant application to the U.S. Department of Transportation Federal Aviation Administration Airport Rescue Grants, under the American Rescue Plan Act of 2021 in the amount of $32,000 consistent with the requirements of the Act and applicable laws and regulations; and authorizing the Mayor and City Manager to execute and deliver related documents on behalf of the City.

Summary: The American Rescue Plan Act of 2021 (H.R. 1319, Public Law 117-2), signed into law by the President on March 11, 2021, includes $8 billion in funds to be awarded as economic assistance to eligible U.S. airports to prevent, prepare for, and respond to the coronavirus disease 2019 (COVID-19) pandemic. To distribute these funds, the FAA has established the Airport Rescue Grants. The FAA will make grants to all airports that are part of the national airport system, including all commercial service airports, all reliever airports, and some public-owned general aviation airports (including Buckeye Municipal Airport). These funds will provide economic relief to airports around the country affected by the COVID-19 pandemic. The FAA intends to implement this program quickly to support the economic recovery of the national airport system.

Staff Liaison: Jeff Webbe, Airport Coordinator, jwebbe@buckeyeaz.gov, 623-349-6880

***6.U** Council to take action on approving the Wired Telecommunications License and Right-of-Way Use Agreement between the City of Buckeye, an Arizona municipal corporation and Accipiter Communications Inc. d/b/a Zona Wyyerd, a Nevada corporation and Wyyerd Connect, LLC d/b/a Zona Wyyerd Network Services, a Delaware limited liability company; and authorizing the City Manager to execute and deliver said Agreement on behalf of the City.

Summary: Zona Wyyred requests approval from the Council to provide telecommunication services to install, maintain, operate and repair existing and future facilities within the right of way. The Agreement will allow Zona Wyyred to use the right-of-way for non-telecommunication services such as dark fiber leasing. Zona Wyyred will provide and maintain accurate maps of the Right-of-Way and comply with the City of Buckeye mapping requirements, and agreed to abide by the public property used requirements set forth by the City.

Staff Liaison: Paul Lopez, Deputy City Engineer, plopez@buckeyeaz.gov, (623) 349-6204

***6.V** Council to take action on a minor subdivision for Juan and Irma Escobar, generally located southeast of South Rainbow Road and West Lower Buckeye Road.

Summary: The applicant has requested approval of a minor subdivision of parcel 504-21-862. The minor subdivision is approximately 2.8 acres comprising two (2) residential lots, with a total of 0.349 acres being dedicated as right-of-way along West Lower Buckeye Road. Approval of the minor subdivision will allow development of the residential lots to support this growing area in the City of Buckeye. Requested by Thomas Rope, Land Survey Services PLC, on behalf of Juan Escobar and Irma Escobar.

Staff Liaison: Patricia Cooley, Planner I, pcooley@buckeyeaz.gov, (623)349-6233

***6.W** Council to take action on a final plat for Sun City Festival Parcel HH1-4, generally located northeast of the intersection of Beardsley Parkway and Desert Oasis Boulevard.

Summary: The applicant has requested approval of a final plat of Parcel HH1-4 of Sun City Festival. The final plat is 26.15 acres and includes 114 single-family residential lots, with 7.01 acres of landscaped open space, parks, recreation areas, and trails. Additional recreational amenities are located in the adjacent units of Sun City Festival. Approval of the final plat will allow continued development of traditional single-family residences within Sun City Festival. Requested by Dan Pottinger, Cardno Inc., on behalf of Laura Meyers, Pulte Home Company, LLC.

Staff Liaison: Robert Busick, Planner II, rbusick@buckeyeaz.gov, (623) 349-6242

***6.X** Council to take action on a final plat for Sun City Festival Parcel K2 and N2, generally located southwest of the intersection of Sun Valley Parkway and Canyon Springs Boulevard.

Summary: The applicant has requested approval of a final plat of Parcel K2 and N2 of Sun City Festival. The final plat is 18.87 acres and includes 58 single-family residential lots, with 4.21 acres of landscaped open space, parks, recreation areas, and trails. Additional recreational amenities are located in the adjacent units of Sun City Festival. Approval of the final plat will allow continued development of traditional single-family residences within Sun City Festival. Requested by Dan Pottinger, Cardno Inc., on behalf of Laura Meyers, Pulte Home Company, LLC.

Staff Liaison: Robert Busick, Planner II, rbusick@buckeyeaz.gov, (623) 349-6242

***6.Y** Council to take action on a final plat of Verrado Victory District Phase 8, generally located north of Victory Phases 7A and 7B and west of the Tuthill Roadway alignment and north of Tiger Mountain Drive within the Verrado Victory District.

Summary: The applicant has requested approval of a final plat of Verrado Victory District Phase 8 (PLZV-20-00028), consisting of 129 single-family lots on 38.7 acres generally located north of Victory Phases 7A and 7B and west of the Tuthill Roadway alignment and north of Tiger Mountain Drive within the Verrado Victory District. Approval of the requested final plat would enable the applicant to develop additional single-family housing in the Verrado Victory District. Requested by David Nilsen of Verrado ARC, LLC.

Staff Liaison: Sean Banda, Senior Planner, sbanda@buckeyeaz.gov, (623) 349-6215

***6.Z** Council to take action on a final plat for Copper Falls Parcel 1, generally located northwest of the intersection of Miller Road and Southern Avenue.

Summary: The applicant has requested approval of a Final Plat of Parcel 1 of Copper Falls. The Final Plat is 176.5 acres and includes 181 single-family residential lots, with 13.62 acres of landscaped open space. A future 15.12-acre school site is also located within the plat. Approval of the Final Plat will allow development to begin within Copper Falls. Requested by Michael Young, Wood Patel.

Staff Liaison: Randy Proch, AICP, Senior Planner, rproch@buckeyeaz.gov (623) 986-0701

***6.AA** Council to take action on a final plat for Copper Falls Parcel 2, generally located northwest of

the intersection of Miller Road and Southern Avenue.
Summary: The applicant has requested approval of a Final Plat of Parcel 2 of Copper Falls (PLZS-20-00074). The Final Plat is 31.03 acres and includes 144 single-family residential lots, with 3.41 acres of landscaped open space. Approval of the Final Plat will allow development to begin within Copper Falls. Requested by Michael Young, Wood Patel.
Staff Liaison: Randy Proch, AICP, Senior Planner, rproch@buckeyeaz.gov (623) 986-0701

***6.AB** Council to take action on Resolution No. 57-21 approving the First Amendment to Groundwater Savings Facility Storage Agreement between the City (formerly Town) of Buckeye and Tonopah Irrigation District; and authorizing the Mayor to execute and deliver said Amendment.
Summary: The Town of Buckeye (Buckeye) and Tonopah Irrigation District (Tonopah) entered into a Groundwater Savings Facility Storage Agreement on June 19, 2012. Buckeye and Tonopah now desire to amend the Agreement to include a provision for the storage of Central Arizona Project (CAP) non-Indian agricultural priority water (NIA water), in addition to other types of CAP water. The amendment would also update the contact information for Buckeye and Tonopah.
Staff Liaison: Ron Whitler, Water Resources Hydrologist, rwhitler@buckeyeaz.gov, (623) 349-6122

7. Public Hearings / Non-Consent - New Business

7.A Council to hold a public hearing and take action on the request for a Series 7 Beer and Wine Bar Liquor License Application for Sundance Golf Club, located at 900 South Sundance Parkway in Buckeye.
Summary: Sundance Golf Club is requesting approval for a Series 7 Beer and Wine Bar liquor license for their existing location due to a change of ownership. The current Series 7 liquor license is valid until May 31, 2022. The application was legally posted on July 22, 2021.
Staff Liaison: Lucinda Aja, City Clerk, laja@buckeyeaz,gov, (623) 349-6911

7.B Council to hold a public hearing and take action on Ordinance No. 15-21 amending the Zoning Map of the City of Buckeye on approximately 18.9 acres, located generally at the southeast corner of 215th Avenue and Roosevelt Street, from SF-43, Single-Family Rural Residential, to BP, Business Park District, for a property known as Verrado Way and Roosevelt Street.
Summary: Nicholas Maxwell, with CVL Consulting, requests rezoning approximately 20 acres at the southeast corner of 215th Avenue and Roosevelt Way, from Single-Family 43 (SF-43) to Business Park (BP), to support two proposed future flex industrial buildings.
Staff Liaison: Randy Proch, AICP, Senior Planner, rproch@buckeyeaz.gov, (623) 986-0701

7.C Council to approve the Memo of Understanding (MOU) between the City of Buckeye and Salt River Project (SRP) to support the feasibility evaluation for modification to Bartlett Dam and authorize the Mayor to sign the MOU on behalf of the City.
Summary: This non-binding memorandum of understanding allows the City of Buckeye to show it's support, in conjunction with SRP and several other entities, of the Bartlett Dam Modification Feasibility Study as well as Buckeye's intent to participate in the cost sharing for this study and

engage as an active steering committee member.
Staff Liaison: Alisha Solano, Water Resources Director, asolano@buckeyeaz.gov, (623) 349-6101

7.D Council to take action on Resolution No. 56-21 approving the Public Infrastructure Reimbursement Agreement between the City of Buckeye and Circle Road Capital, LLC, an Arizona limited liability company; and authorizing the Mayor to execute and deliver said Agreement.

Summary: Circle Road Capital, LLC is the owner of approximately 14.82 acres at the southwest corner of Indian School Road and Jackrabbit Trail and plans to construct a new commercial/retail center. The public infrastructure to be constructed and installed by Owner, while necessary to serve development within the commercial/retail center, also include certain improvements that are of regional benefit to the City and its residents. Given the regional significance of the public infrastructure the City is willing to reimburse the owner for these regional improvements subject to the terms and conditions set forth in the presented agreement.
Staff Liaison: Scott Zipprich, City Engineer, szipprich@buckeyeaz.gov, (623) 349-6217

8. Staff Reports / Discussion and Possible Direction from Council

8.A Chief Financial Officer William Kauppi will provide a brief report on the City's current finances.

Summary: Chief Financial Officer William Kauppi will provide a brief report on the City's current finances. Discussion may be held and Council may provide direction to staff, but no legal action will take place.

9. City Manager's Report and Summary of Current Events

10. Comments from the Mayor and Council

Mayor and Council may present a brief summary on current events and/or report on any of the Boards and Commissions and other organizations as necessary.

Vice Mayor Youngker:
Public Safety Retirement Board (Police)
Airport Advisory Board
Main Street Board

Councilmember HagEstad:

Councilmember Goodman:
Valley Metro RPTA Board
WESTMARC

Councilmember Guy:
Buckeye Youth Council

Community Development Advisory Committee (CDAC Regular Member)

Councilmember Heustis:
Library Advisory Board
Planning and Zoning Commission Public Safety Retirement Board (Fire)
Buckeye Pollution Control Corporation (BPCC)
Chamber of Commerce Council Liaison

Councilmember Hess:
Community Development Advisory Committee (CDAC Alternate Member)
Community Services Advisory Board
MAG Human Services Coordinating Committee (MAG HSCC Chair)
Southwest Lending Closet Board

Mayor Orsborn:
MAG Regional Council - Member
MAG Economic Development Committee - Member
MAG Transportation Policy Committee - Member
Great Phoenix Economic Council (GPEC)

The Council may not propose, discuss, deliberate, or take any legal action on information presented. Council may direct inquiries to staff.

11. Council will make a motion to adjourn the meeting

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 4.A. MINUTES
DATE PREPARED: 08/12/21	**DISTRICT NO.:**
STAFF LIAISON:	
DEPARTMENT: City Clerk	**AGENDA ITEM TYPE:** Minutes

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on approval of the minutes of the June 15, 2021 Special Council Meeting and Executive Session, June 15, 2021 Regular Council Meeting, July 6, 2021 Special Council Meeting and Executive Session, July 6, 2021 Council Workshop, and July 6, 2021 Regular and Special Council Meeting.

SUMMARY

Items related to a project or facility location must include an attached vicinity map for Council Review.

ATTACHMENTS:

06.15.2021 Special and Executive Session Minutes.pdf
06.15.2021 Regular Council Meeting Minutes.pdf
07.06.2021 Special and Executive Session Minutes.pdf
07.06.2021 Council Workshop Minutes.pdf
07.06.2021 Regular and Special Council Meeting Minutes.pdf

BUCKEYE, AZ

CITY OF BUCKEYE
SPECIAL COUNCIL MEETING / COUNCIL EXECUTIVE SESSION
JUNE 15, 2021
MINUTES

City Council Chambers
530 E. Monroe Ave.
Buckeye, AZ 85326
4:00 PM

1. Call to Order

Mayor Orsborn called the meeting to order at 4:01 p.m.

Members Present: Councilmember Youngker, Councilmember HagEstad, Councilmember Goodman, Councilmember Guy, Councilmember Hess, Vice Mayor Heustis, and Mayor Meck.

Members Absent: None.

Departments Present: City Manager Roger Klingler, City Attorney Shiela Schmidt, City Clerk Lucinda Aja, and Human Resources Director Nancy Love.

2. Convene into Executive Session

Upon a majority vote, Council will convene into Executive Session pursuant to A.R.S. Section 38-431.03(A)(1) to discuss or consider the performance of a public officer of the City of Buckeye.

At 4:01 p.m. a motion was made by Vice Mayor Youngker and seconded by Councilmember Hess to convene into Executive Session pursuant to A.R.S. Section 38-431.03(A)(1) to discuss or consider the performance of a public officer of the City of Buckeye. Motion passed unanimously.

3. Reconvene into Special Meeting

At 5:26 p.m. a motion was made by Councilmember Heustis and seconded by Vice Mayor Youngker to reconvene into the Special Council Meeting. Motion passed unanimously.

4. Adjournment

A motion was made by Councilmember Heustis and seconded by Vice Mayor Youngker to adjourn the meeting at 5:37 p.m. Motion passed unanimously.

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda J. Aja, City Clerk

I hereby certify that the foregoing minutes are a true and correct copy of the Special Council Meeting and Executive Session held on June 15, 2021. I further certify that a quorum was present.

_____
Lucinda J. Aja, City Clerk

BUCKEYE, AZ

CITY OF BUCKEYE
REGULAR COUNCIL MEETING
JUNE 15, 2021
MINUTES

City Council Chambers
530 E. Monroe Ave.
Buckeye, AZ 85326
6:00 PM

1. Call to Order Invocation/Pledge of Allegiance/Roll Call
Mayor Orsborn called the meeting to order at 6:00 p.m.; Adam Zamora of Desert Hills Baptist Church led the invocation; Vice Mayor Youngker led the Pledge of Allegiance.

Members Present: Councilmember Goodman, Councilmember HagEstad, Councilmember Hess, Councilmember Heustis, Vice Mayor Youngker, and Mayor Orsborn.

Members Absent: Councilmember Guy.

Departments Present: City Manager Roger Klingler, Assistant City Manager James Shano, City Attorney Shiela Schmidt, Deputy City Clerk Summer Stewart, Assistant to Mayor and Council Christine Grundy, Interim Fire Chief Bill Stockley, Assistant Police Chief Bob Sanders, Chief Financial Officer William Kauppi, Human Resources Director Nancy Love, Public Works Director Scott Lowe, City Engineer Scott Zipprich, Development Services Director George Flores, Water Resources Director Alisha Solano, Information Technology Director Greg Platacz, Community Services Director Miranda Gomez, Economic Development Director Dave Roderique, and Construction and Contracting Manager Chris Williams.

2. Comments from the Public – None.

3. Awards/Presentations/Proclamations

3.A Buckeye Main Street Coalition Members Candy Youngker, Jay Broadbent, and Laura Serbin presented an Annual Update for Fiscal Year 2020-2021.

3.B Buckeye Youth Councilmember, Nathan Balos, presented his senior project to Mayor and Council.

3.C Mayor Orsborn recognized the retirement of Terri Hogan, Deputy Director of Planning, Development Services.

4. Minutes

4.A A motion was made by Vice Mayor Youngker and seconded by Councilmember Goodman to approve the minutes of the May 18, 2021 Council Workshop Minutes, May 18, 2021 Regular Council Meeting Minutes, and May 24, 2021 Council Retreat Minutes. Motion passed unanimously.

5. Expenditures

5.A A motion was made by Councilmember Heustis and seconded by Vice Mayor Youngker to approve the ratification of the payment of the accounts payable expenditures made. Motion passed unanimously.

6. CONSENT AGENDA ITEMS / NEW BUSINESS

Approval of items on the Consent Agenda -All items with an (*) are considered to be routine matters and will be enacted by one motion and vote of the City Council. A motion was made by Councilmember Heustis and seconded by Vice Mayor Youngker to approve Items *6.A, *6.B, *6.C, *6.D, *6.E, *6.F, *6.G, *6.H, *6.I, *6.J, *6.K, and *6.L. Motion passed unanimously.

***6.A** Council to take action on the Agreement between the Greater Phoenix Economic Council and the City of Buckeye for Fiscal Year 2021-2022.
Staff Liaison: David Roderique, Economic Development Director

Council approved the Agreement between the Greater Phoenix Economic Council and the City of Buckeye for Fiscal Year 2021-2022.

***6.B** Council to take action on the First Amendment to Care1st Health Plan Arizona, Inc. Ancillary Services Agreement between the City of Buckeye, an Arizona municipal corporation, through its Fire - Medical - Rescue Department, and Care1st Health Plan Arizona, Inc., an Arizona corporation.
Staff Liaison: Bill Stockley, Interim Fire Chief

Council approved the First Amendment to Care1st Health Plan Arizona, Inc. Ancillary Services Agreement between the City of Buckeye, an Arizona municipal corporation, through its Fire - Medical - Rescue Department, and Care1st Health Plan Arizona, Inc., an Arizona corporation.

***6.C** Council to take action on the Contract for Services (#2022-11-BKY) between the City of Buckeye and Area Agency on Aging Region One, Incorporated, for Fiscal Year 2021-2022, related to congregate and home delivered meal programs, transportation, and multi-purpose operations for the City of Buckeye Senior Program; authorizing the City Manager to approve, execute and deliver said Contract, and any and all documents in connection with said Contract, including any amendments thereto, on behalf of the City of Buckeye.
Staff Liaison: Philip Yabes, Senior Center Manager

Council approved the Contract for Services (#2022-11-BKY) between the City of Buckeye and Area Agency on Aging Region One, Incorporated, for Fiscal Year 2021-2022, related to congregate and home delivered meal programs, transportation, and multi-purpose operations for the City of Buckeye Senior Program; authorizing the City Manager to approve, execute and deliver said Contract, and any and all documents in connection with said Contract, including any amendments thereto, on behalf of the City of Buckeye.

***6.D** Council to take action on the Fiscal Year 2021-2022 Renewal Term for Memorandum of Understanding (MOU) between the City of Buckeye and Buckeye Main Street Coalition, Inc.,; and authorizing the Mayor to execute and deliver said Renewal on behalf of the City.
Staff Liaison: Miranda Gomez, Community Services Director

Council approved the Fiscal Year 2021-2022 Renewal Term for Memorandum of Understanding (MOU) between the City of Buckeye and Buckeye Main Street Coalition, Inc.,; and authorizing the Mayor to execute and deliver said Renewal on behalf of the City.

***6.E** Council to take action on Resolution No. 43-21 designating Benbow Park as the City's Veterans Memorial Park and Redesignating Veterans Memorial Park, formally known as Coronado Park, to general City right-of-way.
Staff Liaison: Miranda Gomez, Community Services Director

Council adopted Resolution No. 43-21 designating Benbow Park as the City's Veterans Memorial Park and Redesignating Veterans Memorial Park, formally known as Coronado Park, to general City right-of-way.

***6.F** Council to take action on Resolution No. 42-21 authorizing the submission of a Grant Application to the Arizona Sports and Tourism Authority's Youth and Amateur Sports Biennial Grant Program relating to the construction of multi-use fields in Sundance Park Phase II; approving and accepting any resulting grant; and authorizing the City Manager or Community Services Department Director to approve, execute, and deliver the resulting Grant Agreement and any Amendments thereto, and all other documents in connection with said Grant, on behalf of the City of Buckeye.
Staff Liaison: Robert Wisener, Administration & Project Manager

Council adopted Resolution No. 42-21 authorizing the submission of a Grant Application to the Arizona Sports and Tourism Authority's Youth and Amateur Sports Biennial Grant Program relating to the construction of multi-use fields in Sundance Park Phase II; approving and accepting any resulting grant; and authorizing the City Manager or Community Services Department Director to approve, execute, and deliver the resulting Grant Agreement and any Amendments thereto, and all other documents in connection with said Grant, on behalf of the City of Buckeye.

***6.G** Council to take action on a minor subdivision for Jackrabbit Crossing, generally located southwest of the intersection of Indian School Road and Jackrabbit Trail.
Staff Liaison: Robert Busick, Planner I

Council approved a minor subdivision for Jackrabbit Crossing, generally located southwest of the intersection of Indian School Road and Jackrabbit Trail.

***6.H** Council to take action on the Roadway Easement from Flood Control District of Maricopa County (FCDMC), a political subdivision of the State of Arizona, as Grantor, granting to the City of Buckeye, an Arizona municipal corporation, as Grantee, a non-exclusive Roadway Easement in connection with FCDMC White Tanks 4 Inlet Project and FCDMC Permit No. 2019P245; and authorizing the Mayor or City Manager to execute and deliver said Roadway Easement on behalf of the City.
Staff Liaison: Paul Lopez, Deputy City Engineer

Council approved the Roadway Easement from Flood Control District of Maricopa County (FCDMC), a political subdivision of the State of Arizona, as Grantor, granting to the City of Buckeye, an Arizona municipal corporation, as Grantee, a non-exclusive Roadway Easement in connection with FCDMC White Tanks 4 Inlet Project and FCDMC Permit No. 2019P245; and authorizing the Mayor or City Manager to execute and deliver said Roadway Easement on behalf of the City.

***6.I** Council to take action on Resolution No. 44-21 approving the Intergovernmental Agreement between the City of Buckeye and the Buckeye Elementary School District, relating to assignment and funding of school resource officers; and authorizing the Mayor, City Manager and Police Chief to execute and deliver said Agreement and related documents on behalf of the City.
Staff Liaison: Larry Hall, Police Chief

Council adopted Resolution No. 44-21 approving the Intergovernmental Agreement between the City of Buckeye and the Buckeye Elementary School District, relating to assignment and funding of school resource officers; and authorizing the Mayor, City Manager and Police Chief to execute and deliver said Agreement and related documents on behalf of the City.

***6.J** Council to take action on Resolution No. 46-21 approving the Transit Services Amendment to the Transit Service Agreement Contract #109-75-3031 between the City of Buckeye and Regional Public Transit Authority relating to changes in bus service and maintenance for Valley Metro Route 685; and authorizing the Mayor and City Manager to execute and deliver said Amendment and related documents on behalf of the City.
Staff Liaison: Scott Lowe, Public Works Director

Council adopted Resolution No. 46-21 approving the Transit Services Amendment to the Transit Service Agreement Contract #109-75-3031 between the City of Buckeye and Regional Public Transit Authority relating to changes in bus service and maintenance for Valley Metro Route 685; and authorizing the Mayor and City Manager to execute and deliver said Amendment and related documents on behalf of the City.

***6.K** Council to take action on the Memorandum of Understanding (MOU) between the City Manager of the City of Buckeye and the United Buckeye Firefighters Association for the period July 1, 2021 through June 30, 2022; authorizing the City Manager or Assistant City Manager to execute and deliver said MOU on behalf of the City.
Staff Liaison: Nancy Love, Human Resources Director

Council approved the Memorandum of Understanding (MOU) between the City Manager of the City of Buckeye and the United Buckeye Firefighters Association for the period July 1, 2021 through June 30, 2022; authorizing the City Manager or Assistant City Manager to execute and deliver said MOU on behalf of the City.

***6.L** Council to take action on the removal of Natalie Abeyta and Kristin Greene Luce as Regular Members of the Community Services Advisory Board.
Staff Liaison: Summer Stewart, Deputy City Clerk

Council approved the removal of Natalie Abeyta and Kristin Greene Luce as Regular Members of the Community Services Advisory Board.

7. Public Hearings / Non-Consent - New Business

7.A Council to hold a public hearing and take action on the request for a new Series 12 Restaurant Liquor License (Application No. 148451) for Cracker Barrel #615, located at 606 South Watson Road in Buckeye.
Staff Liaison: Lucinda Aja, City Clerk

Mayor Orsborn opened a public hearing at 6:42 p.m. to hear citizen input regarding a request for a Series 12 Restaurant Liquor License for Cracker Barrel located on Watson Road in Buckeye. Ms. Aja provided an overview of the application; Cracker Barrel #615 is requesting approval for a new Series 12 Restaurant Liquor License for their existing location. The applicant was available for questions. There being no public comment, Mayor Orsborn closed the public hearing at 6:43 p.m. A motion was made by Councilmember Heustis and seconded by Councilmember Hess to approve the new Series 12 Restaurant Liquor License (Application No. 148451) for Cracker Barrel #615, located at 606 South Watson Road in Buckeye. Motion passed unanimously.

7.B Council to hold a public hearing and take action on Ordinance No. 13-21 amending the Zoning Map of the City of Buckeye on approximately 22.8 acres, located generally at the northeast corner of Miller Road and Lower Buckeye Road, from Mixed Residential District (MR), to Single-Family 3 (SF-3), with a Planned Area Development (PAD), for a property known as Homes at Susan's Ranch.
Staff Liaison: Andrea Marquez, Planner II

Mayor Orsborn opened a public hearing at 6:43 p.m. to hear citizen input regarding rezone Ordinance No. 13-21. Ms. Marquez provided an overview of the requested rezone; Rapid Wags Properties LCC, requests to rezone the parcels from Mixed Residential District (MR), to Single-Family 3 (SF-3), with a Planned Area Development (PAD) to support a cluster single-family housing product, with a density of 6.3 du/ac. The property is 22.8 acres and is located on the northeast corner of Miller Road and Lower Buckeye Road. Staff recommends approval with conditions. Councilmember Hess requested further information regarding the planned product at the site. Ms. Marquez stated the project provides diversity in products at the site and are planned small-lot single-family dwellings at a higher density. The proposed product includes Cluster/pod designed to fit six to nine lots with interior private drives and garages. Clarification regarding location of the project was provided. Greg Loper with Rapid Wags Properties, LLC provided additional information regarding the intended use of the product; stated all qualified individuals will be able to purchase the homes but the homes are considered "workforce housing"; presented depictions of similar products. There being no public comment, Mayor Orsborn closed the public hearing at 6:49 p.m. A motion was made by Councilmember Heustis and seconded by Councilmember Goodman to adopt Ordinance No. 13-21 amending the Zoning Map of the City of Buckeye on approximately 22.8 acres, located generally at the northeast corner of Miller Road and Lower Buckeye Road, from Mixed Residential District (MR), to Single-Family 3 (SF-3), with a Planned Area Development (PAD), for a property known as Homes at Susan's Ranch. Motion passed unanimously.

7.C Council to take action on Resolution No. 37-21 approving and adopting a Tentative Budget for Fiscal Year 2021-2022.
Staff Liaison: William Kauppi, Chief Financial Officer

Mr. Kauppi presented an overview of the tentative budget for FY 2021-2022 and reviewed proposed expenditures for all funds and categories. A summary of changes proposed since Council was presented budget information at the June 1, 2021 workshop. Estimated revenues were listed and described and a summary of revenues, expenditures, and estimated ending fund balance was provided. Proposed personnel changes were reviewed and include a total of 51.99 new staff positions; a three percent Cost of Living Allowance (COLA) is proposed along with a three percent merit increase determined at anniversary date. Capital outlay for all funds was described and reviewed. AZCARES and ARPA funding and uses was listed and summarized. Staff recommends approval of the proposed tentative budget for FY 2021-2022 in the amount of $392,657,440. Mayor Orsborn requested further information regarding the proposed budget and AZCARES and ARPA funding. Mr. Kauppi stated the proposed budget has been brought before Council three times for review and direction; clarified the budget includes a maximum amount the City can spend in FY 2021-2022; confirmed there are opportunities for changes to projects throughout the year if needed; confirmed the AZCARES and ARPA funding amounts for Buckeye have changed and was originally $19 million due to the category the City was placed in, but the category was amended and the funding to be allocated was reduced to approximately $10 million. Councilmember Hess requested further information regarding the AZCARES and ARPA funding and public outreach; requested an update of utility billing activity and resident use of funding to assist with past due billing; requested clarification regarding proposed additional personnel. Mr. Kauppi stated the proposed budget includes an expenditure amount that would allow use of further AZCARES and ARPA funding; confirmed a presentation regarding the budget will be shared with the public prior to adoption of the final budget. Mr. Klingler confirmed the presentation will be shared with the public with the opportunity for the public to provide feedback prior to adoption of the final budget; stated there has been more participation with sharing the information through social media and the City's website than with in-person meetings. Mr. Kauppi provided clarification regarding water rate coverage tests required to comply with the City's WIFA loan; presented and reviewed the list of proposed additional personnel. Councilmember Heustis requested clarification regarding expenditures for personnel services; stated he would like to know what the amount would be to provide an additional one percent COLA increase to employees for a total of four percent; stated the importance of recruiting and retaining employees. Mr. Kauppi clarified the amounts listed for personnel services includes salaries and benefits; stated one percent of personnel salaries is equal to approximately $400,000. Vice Mayor Youngker requested clarification regarding budget transfers. Mr. Kaupp stated funds may be transferred into personnel services to cover the possible four percent COLA increase.

A motion was made by Councilmember Heustis and seconded by Vice Mayor Youngker to adopt Resolution No. 37-21 approving and adopting a Tentative Budget for Fiscal Year 2021-2022. Motion passed unanimously.

7.D Council to take action on Resolution No. 38-21 approving the Tentative Budgets for the following Street Lighting Improvement Districts for the Fiscal Year 2021-2022, beginning July 1, 2021 and ending June 30, 2022; Street Lighting Improvement District SLID No. 1, comprised of Sun City Festival Parcels A1 and B1; 2006-SLID-001, comprised of Vista De Montana Phases 1A, 1B, 2, and 3; 2006-SLID-002, comprised of Sundance Parcels 48, 49A; 2006-SLID-003, comprised of Blue Horizons; 2006-SLID-07, comprised of Festival Foothills Phase 1 and Units 25, 27, 29 and 31; 2006-SLID-08, comprised of Festival Foothills Phase 2; 2006-SLID-009, comprised of Crystal Vista; 2006-SLID-011, comprised of Sun City 4128259.3 2 Festival Parcels C1 through H1, V1, S1 and Q1; 2006-SLID-15, comprised of Riata West Unit 2; 2006-SLID-016, comprised of Sonoran Vista Units 1 and 2; 2006-SLID-17, comprised of Riata West Unit 1; 2006-SLID-19, comprised of Sun City Festival Parcels K1, O1, M1, R1, A2, M2, U1, 4, and 6, and A1, Phase 3; 2007-SLID-001, comprised of Sundance Parcel 27; 2007-SLID-002, comprised of Sundance Parcel 25; 2007-SLID-003, comprised of Sundance Parcel 26; 2007-SLID-010, comprised of Watson Estates; 2007-SLID-013, comprised of Sun City Festival Parcels I1 and P1; 2007-SLID-021, comprised of Sun City Festival Parcel J1; 2009-SLID-02A, comprised of Watson Marketplace; 2011-SLID-001, comprised of Sundance/Yuma Commercial; 2012-SLID-02, comprised of Sienna Hills; 2013-SLID-001, comprised of Arroyo Seco North, Village 1 and Arroyo Seco South, Village 3; 2013-SLID-002, comprised of Sun City Festival Parcels L1, L1-2, HH1-1, HH1-2, HH1-3, HH1-4, HH1-5, JJ and N-1; 2015-SLID-001, comprised of Estrella Vista at Buckeye; 2017-SLID-003, comprised of Parkplace at Buckeye and Terravista Phase 1, Encantada Estates; 2018-SLID-001, comprised of Canyon Views; 2019-SLID-002 comprised of Westpark Phase II; and 2020-SLID-001, comprised of Buckeye Parkway Center; setting a hearing date for the budgets and establishing the annual assessment.
Staff Liaison: Scott Lowe, Public Works Director

Mr. Lowe presented an overview of Resolution No. 38-21 approving the tentative budgets for the City's 28 Street Lighting Improvement Districts (SLIDs). Street Lighting Improvement Districts (SLIDs) are established with the approval of the City Council. The Council serves as the Governing Board of the SLID and the City administers the operations of the SLID which is for the purpose of paying for energy costs associated with street lights within a SLID. By Arizona law, SLIDs cannot incur debt. The assessment is imposed on each property within the District and is collected through the Maricopa County property tax system. The projected amount for revenues and expenditures is $361,672.69. Vicinity maps of each SLID were available for Council review. A motion was made by Vice Mayor Youngker and seconded by Councilmember Goodman to adopt Resolution No. 38-21 approving the Tentative Budgets for the following Street Lighting Improvement Districts for the Fiscal Year 2021-2022, beginning July 1, 2021 and ending June 30, 2022; Street Lighting Improvement District SLID No. 1, comprised of Sun City Festival Parcels A1 and B1; 2006-SLID-001, comprised of Vista De Montana Phases 1A, 1B, 2, and 3; 2006-SLID-002, comprised of Sundance Parcels 48, 49A; 2006-SLID-003, comprised of Blue Horizons; 2006-SLID-07, comprised of Festival Foothills Phase 1 and Units 25, 27, 29 and 31; 2006-SLID-08, comprised of Festival Foothills Phase 2; 2006-SLID-009, comprised of Crystal Vista; 2006-SLID-011, comprised of Sun City 4128259.3 2 Festival Parcels C1 through H1, V1, S1 and Q1; 2006-SLID-15, comprised of Riata West Unit 2; 2006-SLID-016, comprised of Sonoran Vista Units 1 and 2; 2006-SLID-17, comprised of Riata West Unit 1; 2006-SLID-19, comprised of Sun City Festival Parcels K1, O1, M1, R1, A2, M2, U1, 4, and 6, and A1, Phase 3; 2007-SLID-001, comprised of Sundance Parcel 27; 2007-SLID-002, comprised of Sundance Parcel 25; 2007-SLID-003, comprised of Sundance Parcel 26; 2007-SLID-010, comprised of Watson Estates; 2007-SLID-013, comprised of Sun City Festival Parcels I1 and P1; 2007-SLID-021, comprised of Sun City Festival Parcel J1; 2009-SLID-02A, comprised of Watson Marketplace; 2011-SLID-001, comprised of Sundance/Yuma Commercial; 2012-SLID-02, comprised of Sienna Hills; 2013-SLID-001, comprised of Arroyo Seco North, Village 1 and Arroyo Seco South, Village 3; 2013-SLID-002, comprised of Sun City Festival Parcels L1, L1-2, HH1-1, HH1-2, HH1-3, HH1-4, HH1-5, JJ and N-1; 2015-SLID-001, comprised of Estrella Vista at Buckeye; 2017-SLID-003, comprised of Parkplace at Buckeye and Terravista

Phase 1, Encantada Estates; 2018-SLID-001, comprised of Canyon Views; 2019-SLID-002 comprised of Westpark Phase II; and 2020-SLID-001, comprised of Buckeye Parkway Center; setting a hearing date for the budgets and establishing the annual assessment. Motion passed unanimously.

7.E Council to take action on the renewal of a Memorandum of Understanding between the City of Buckeye and the Buckeye Valley Chamber of Commerce relating to economic development services and the renewal of lease terms; and authorizing the City Manager to execute and deliver said renewal letter.
Staff Liaison: David Roderique, Economic Development Director

Mr. Roderique provided an overview of the Memorandum of Understanding (MOU) between the City and the Buckeye Valley Chamber of Commerce ("the Chamber") for FY 2021-2022. The City will benefit from the various economic development services it will receive through the MOU, including, but not limited to, providing business retention services, business advocacy services and planning and coordinating the Buckeye Leadership Academy. The Buckeye community will receive benefit from the economic development services under the MOU as well, allowing the City to provide a greater quality of life for its residents and helping leverage the City's resources and economic and business development activities for the budgeted amount of not to exceed $60,000 for FY 2021-2022. Deanna Kupcik and Tedy Burton with the Buckeye Valley Chamber of Commerce presented an overview of economic development services provided to the City. Mr. Roderique thanked the Chamber for the services they provide to the City and local businesses. Councilmember Heustis requested clarification regarding event locations. Ms. Kupcik confirmed the Chamber reaches out to all businesses in the City. Mr. Burton stated the Chamber is open for business and available to all businesses in the City. Vice Mayor Youngker requested further clarification regarding events held at businesses. Ms. Kupcik confirmed there are certain areas in the City that can accommodate events. A motion was made by Councilmember Heustis and seconded by Vice Mayor Youngker to approve the renewal of a Memorandum of Understanding between the City of Buckeye and the Buckeye Valley Chamber of Commerce relating to economic development services and the renewal of lease terms; and authorizing the City Manager to execute and deliver said renewal letter. Motion passed unanimously.

7.F Council to take action on the Memorandum of Understanding between the City of Buckeye and the Buckeye Valley Chamber of Commerce relating to the Shop Buckeye Program to mitigate the impacts the ADOT Project will have on businesses within the City; and authorizing the City Manager to execute and deliver said Shop Buckeye MOU.
Staff Liaison: David Roderique, Economic Development Director

Mr. Roderique provided an overview of the Memorandum of Understanding (MOU) between the City and the Buckeye Valley Chamber of Commerce. ADOT is about to embark on a major improvement program for I-10 between Verrado Way and SR85, which will include widening the freeway and completely rebuilding the Watson and Miller interchanges. While this work is long overdue and the community will benefit long term from the improvements, during the construction period there will be direct impacts to the community in terms of ramp closures, reduced traffic capacity, and traffic restrictions, which are likely to cause hardships on the local business community. A motion was made by Councilmember Heustis and seconded by Vice Mayor Youngker to approve the Memorandum of Understanding (MOU) between the City of Buckeye and the Buckeye Valley Chamber of Commerce relating to the Shop Buckeye Program to mitigate the impacts the ADOT Project will have on businesses within the City; and authorizing the City Manager to execute and deliver said Shop Buckeye MOU. Motion passed unanimously.

7.G Council to take action on funding of four recommended Economic Development Catalyst Program requests in the amount of $42,500, plus certain City fees eligible for reimbursement.
Staff Liaison: Tennille Hiller, Economic Development Coordinator

Vice Mayor Youngker declared a conflict of interest and recused himself from the discussion and voting. Ms. Hiller provided an overview of the Economic Development Catalyst Program, which exists to promote the

rehabilitation of existing commercial, industrial, or mixed-use properties by offering up to $50,000 of City funding (per project) toward improvement costs. Not all commercial, industrial, or mixed use properties within the City are eligible for this program; only those that serve a public purpose which is the foundation of the adopting Ordinance authorizing this program. Fees may be included but only those fees that are associated with a project that serves a public purpose. These properties must already have applicable zoning or be rezoned before being eligible. After applications were received and reviewed, four applications have been recommended for approval, in a total amount of $42,500, plus certain City fees eligible for reimbursement, such as fees for permitting and lot combinations. The recommended projects were reviewed and include American Legion with a financial request of $15,482, B Bar G with a financial request of $19,312.50, Odyssey Schools (Apache) with a financial request of $3,675, and Odyssey Schools (OI High School) with a financial request of $3,675. Councilmember HagEstad requested clarification regarding investment. Ms. Hiller confirmed there has been $1.5 million in investment over the last seven years of the program. Mayor Orsborn presented statements regarding the success and value of the program. A motion was made by Councilmember Heustis and seconded by Councilmember Hess to approve funding of four recommended Economic Development Catalyst Program requests in the amount of $42,500, plus certain City fees eligible for reimbursement. Motion passed unanimously.

8. City Manager's Report and Summary of Current Events – None.

9. Comments from the Mayor and Council

Vice Mayor Youngker: no comment.

Councilmember Guy: absent.

Councilmember Heustis: no comment.

Councilmember Hess: no comment.

Councilmember HagEstad: no comment.

Councilmember Goodman: no comment.

Mayor Orsborn: provided an update regarding the State Route (SR) 30 Corridor and Proposition 400 Extension.

8. Council will make a motion to adjourn the meeting

A motion was made by Vice Mayor Youngker and seconded by Councilmember Heustis to adjourn the meeting at 8:10 p.m. Motion passed unanimously.

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda J. Aja, City Clerk

I hereby certify that the foregoing minutes are a true and correct copy of the Regular Council Meeting held on June 15, 2021. I further certify that a quorum was present.

_____
Lucinda J. Aja, City Clerk

BUCKEYE, AZ

CITY OF BUCKEYE
SPECIAL COUNCIL MEETING COUNCIL EXECUTIVE SESSION
JULY 6, 2021
MINUTES

City Council Chambers
530 E Monroe Ave
Buckeye, AZ, 85326
3:30 PM

1. Call to Order/Roll Call

Mayor Orsborn called the meeting to order at 3:30 p.m.

Members Present: Councilmember Goodman, Councilmember HagEstad, Councilmember Guy, Councilmember Hess, Councilmember Heustis, and Mayor Orsborn.

Members Absent: Vice Mayor Youngker.

Departments Present: Assistant City Manager James Shano, City Attorney Shiela Schmidt, City Clerk Lucinda Aja, Deputy City Clerk Summer Stewart, Water Resources Director Alisha Solano, and Information Technology Director Greg Platacz.

2. Convene into Executive Session

2.A Upon a public majority vote, Council will convene into Executive Session pursuant to A.R.S. Section 38-431.03(A)(3) and 38-431(A)(7) to (i) discuss and consult with the City Attorney for legal advice concerning the proposed sale of the Sonoran Ridge water system, and (ii) discuss and consult with representatives of the City in order for the City to consider its position and instruct its representatives regarding the negotiations for the proposed sale of the Sonoran Ridge water system.

At 3:31 p.m. a motion was made by Councilmember Heustis and seconded by Councilmember Goodman to convene convene into Executive Session pursuant to A.R.S. Section 38-431.03(A)(3) and 38-431(A)(7) to (i) discuss and consult with the City Attorney for legal advice concerning the proposed sale of the Sonoran Ridge water system, and (ii) discuss and consult with representatives of the City in order for the City to consider its position and instruct its representatives regarding the negotiations for the proposed sale of the Sonoran Ridge water system. Motion passed unanimously.

3. Reconvene into Special Meeting

At 4:09 p.m. a motion was made by Councilmember Goodman and seconded by Councilmember Heustis to reconvene into the Special Meeting. Motion passed unanimously.

4. Adjournment

A motion was made by Councilmember Goodman and seconded by Councilmember Heustis to adjourn the meeting at 4:09 p.m. Motion passed unanimously.

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda J. Aja, City Clerk

I hereby certify that the foregoing minutes are a true and correct copy of the Special Council Meeting and Executive Session held on July 6, 2021. I further certify that a quorum was present.

_____
Lucinda J. Aja, City Clerk

CITY OF BUCKEYE
COUNCIL WORKSHOP
JULY 6, 2021
MINUTES

City Council Chambers
530 East Monroe Avenue
Buckeye, AZ 85326
4:30 PM

1. Call to Order/Roll Call

Mayor Orsborn called the meeting to order at 4:30 p.m.

Members Present: Councilmember Goodman, Councilmember HagEstad, Councilmember Hess, Councilmember Guy, Councilmember Heustis, and Mayor Orsborn.

Members Absent: Vice Mayor Youngker.

Departments Present: Assistant City Manager James Shano, City Attorney Shiela Schmidt, City Clerk Lucinda Aja, Deputy City Clerk Summer Stewart, Assistant to Mayor and Council Christine Grundy, Information Technology Director Greg Platacz, and Water Resources Director Alisha Solano.

2. Workshop Items

2.A Presentation and discussion regarding the Subcontract among the United States Bureau of Reclamation, the Central Arizona Water Conservation District, and the City of Buckeye for 2,786 acre-feet of Central Arizona Project Non-Indian Agricultural Priority Water.
Staff Liaison: Ron Whitler, Water Resources Hydrologist

Ms. Solano opened the presentation and presented a timeline of the project. The City of Buckeye applied for a Central Arizona Project Non-Indian Agricultural Priority Water allocation in June 2013. In January 2014, the Arizona Department of Water Resources recommended that the City receive an annual allocation of 2,786 acre-feet per year for 100 years (2,786 acre-feet is nearly 908 million gallons). In order to receive this water, a subcontract must be executed among the United States Bureau of Reclamation, the Central Arizona Water Conservation District (CAWCD), and the City. The draft subcontract for this water was received by the City on April 28, 2021. This water will initially be available for delivery during calendar year 2022. Mr. Whitler provided additional information regarding the Subcontract and discussed water shortages and the need to preserve this resource. Central Arizona Project (CAP) water is a renewable water supply that can be used in place of groundwater pumping. It can also be used to recharge or replenish the aquifer in order to sustain groundwater supplies and to reduce groundwater level declines. In addition, CAP water can be recharged and recovered during the same year to reduce the Central Arizona Groundwater Replenishment (CAGRD) costs on customer property tax bills. If the City obtains a Designation of Assured Water Supply in the future, this water can be used to reduce the City's CAGRD replenishment obligations. Although the acquisition cost is expensive, this cost is for a 100-year supply. Mayor Orsborn requested further

information regarding acquisition costs and CAGRD fees. Mr. Whitler confirmed the acquisition costs per acre-foot. Ms. Solano provided additional information regarding acquisition costs; Water Resources has budgeted the costs to be spread over the next five years. Mr. Whitler provided additional information regarding properties and organizations enrolled in CAGRD and potential impacts to CAGRD fees with this water allocation. Options regarding use of the water allocation were listed and summarized. Other organizations receiving water allocations were listed and reviewed. Staff recommends approval of the Subcontract. Councilmember HagEstad requested further information regarding first-year acquisition costs. Ms. Solano provided additional information and clarification regarding acquisition costs for the first year and subsequent years. Mr. Whitler provided additional information regarding cost comparisons between purchase of NIA water and construction of wells; NIA water is more cost effective. Councilmember Heustis requested further information regarding the purchase of NIA water. Ms. Solano stated the allocation has been awarded but if we do not approve the Subcontract and purchase of the NIA water, other entities will have the opportunity to purchase the allocation. Mr. Whitler provided additional information regarding the request to purchase the allocation, which includes requests and approval by Arizona Department of Water Resources (ADWR). Mayor Orsborn requested further information regarding potential additional allocations. Mr. Whitler presented further information regarding potential additional water supplies and how that may impact allocations.

3. Adjournment.

A motion was made by Councilmember Goodman and seconded by Councilmember Heustis to adjourn the meeting at 5:11 p.m. Motion passed unanimously.

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda J. Aja, City Clerk

I hereby certify that the foregoing minutes are a true and correct copy of the Council Workshop held on July 6, 2021. I further certify that a quorum was present.

_____
Lucinda J. Aja, City Clerk

BUCKEYE, AZ

CITY OF BUCKEYE
REGULAR AND SPECIAL COUNCIL MEETING
JULY 6, 2021
MINUTES

City Council Chambers
530 East Monroe Avenue
Buckeye, AZ 85326
6:00 PM

1. Call to Order/Invocation/Pledge of Allegiance/Roll Call

Mayor Orsborn called the meeting to order at 6:00 p.m.; Adam Zamora of Desert Hills Baptist Church led the invocation; Councilmember Goodman led the Pledge of Allegiance.

Members Present: Councilmember Goodman, Councilmember HagEstad, Councilmember Hess, Councilmember Guy, Councilmember Heustis, and Mayor Orsborn.

Members Absent: Vice Mayor Youngker.

Departments Present: City Manager Roger Klingler, Assistant City Manager James Shano, Deputy City Manager Dave Roderique, City Attorney Shiela Schmidt, Deputy City Clerk Summer Stewart, Assistant to Mayor and Council Christine Grundy, Interim Fire Chief Bill Stockley, Assistant Police Chief Bob Sanders, Chief Financial Officer William Kauppi, Human Resources Director Nancy Love, Public Works Director Scott Lowe, City Engineer Scott Zipprich, Development Services Director George Flores, Water Resources Director Alisha Solano, Information Technology Director Greg Platacz, Community Services Director Miranda Gomez, and Construction and Contracting Manager Chris Williams.

2. Comments from the Public - None.

3. Special Meeting

3.A Council will convene into a Special Council Meeting (as required by A.R.S. Title 42, Sections 17101 through 17108).

At 6:15 p.m. a motion was made by Councilmember Goodman and seconded by Councilmember Heustis to convene into a Special Council Meeting (as required by A.R.S. Title 42, Sections 17101 through 17108). Motion passed unanimously.

3.B Council will hold a public hearing and take action *(roll call vote)* on the Truth in Taxation (TNT) Primary Property Tax Levy for Fiscal Year 2021-2022 equal to $10,910,454.
Staff Liaison: William Kauppi, Chief Financial Officer

Mayor Orsborn opened a public hearing at 6:15 p.m. to hear citizen input regarding the Truth in Taxation (TNT) Primary Property Tax Levy for Fiscal Year 2021-2022 equal to $10,910,454. Mr. Kauppi presented information regarding the TNT Primary Property Tax Levy for Fiscal Year (FY) 2021-2022. All legal obligations related to TNT have been fulfilled. The proposed tax levy analysis was displayed and described. The recommended levy is $927,598 greater than the previous year; a total levy increase of 9.29%. The City's primary property tax rate is estimated to be $1.7671 per $100 of taxable assessed value. The City's

primary property taxes for a $100,000 valued home will decrease from $178.90 to $176.71. Councilmember Heustis requested clarification regarding the rate. Mr. Kauppi clarified the rate has stayed at or under $1.80 for several years. Councilmember HagEstad requested further information regarding the rate. Mr. Kauppi clarified the rate will be lowered from $1.79 in FY 2020-2021 to $1.7671 in FY 2021-2022 and it is anticipated the rate will continue to be lowered each year. There being no public comment, Mayor Orsborn closed the public hearing at 6:23 p.m. A motion was made by Councilmember Heustis and seconded by Councilmember Goodman to approve the Truth in Taxation (TNT) Primary Property Tax Levy for Fiscal Year 2021-2022 equal to $10,910,454.
Roll Call Vote:
Councilmember HagEstad: aye
Councilmember Goodman: aye
Councilmember Guy: aye
Councilmember Hess: aye
Councilmember Heustis: aye
Vice Mayor Youngker: absent
Mayor Orsborn: aye
Motion carried.

3.C Council will hold a public hearing and take action on Resolution No. 39-21 adopting a budget; setting forth the receipts and expenditures and the amounts proposed to be raised by direct property taxation for the various purposes for the Fiscal Year 2021-2022.
Staff Liaison: William Kauppi, Chief Financial Officer

Mayor Orsborn opened a public hearing at 6:24 p.m. to hear citizen input regarding the final budget for FY 2021-2022. Mr. Kauppi presented information regarding Resolution No. 39-21 adopting a final budget for FY 2021-2022. Estimated revenues and expenditures were listed and reviewed. Cost of Living Allowance (COLA) options were presented and discussed. Staff initially proposed a three percent COLA; if Council approves a four percent COLA it would increase the personnel services expenditure by $486,793. This amount would be transferred from the General Fund to personnel services. Councilmember Hess presented comments regarding the ongoing compensation and classification study. Mr. Kauppi stated any increase in base pay should bring the City more closely aligned with the results of the compensation and classification study; confirmed one million has been placed in a non-departmental fund and may be used to implement results of the compensation and classification study; confirmed the increased COLA amount would be transferred from the General Fund. There being no public comment, Mayor Orsborn closed the public hearing at 6:32 p.m. A motion was made by Councilmember Goodman and seconded by Councilmember Heustis to adopt Resolution No. 39-21 adopting a budget; setting forth the receipts and expenditures and the amounts proposed to be raised by direct property taxation for the various purposes for the Fiscal Year 2021-2022; *and to include a four percent cost of living allowance (COLA) for all eligible employees*. Motion passed unanimously.

3.D Council will hold a public hearing and take action on Resolution No. 40-21 adopting the Final Budget for Fiscal Year 2021-2022 beginning July 1, 2021 and ending June 30, 2022, by the Governing Board of the following Street Lighting Improvement Districts: SLID No. 1, comprised of Sun City Festival Parcels A1 and B1; 2006-SLID-001, comprised of Vista De Montana Phases 1A, 1B, 2, and 3; 2006-SLID-002, comprised of Sundance Parcels 48, 49A; 2006-SLID-003, comprised of Blue Horizons; 2006-SLID-07, comprised of Festival Foothills Phase 1 and Units 25, 27, 29 and 31; 2006-SLID-08, comprised of Festival Foothills Phase 2; 2006-SLID-009, comprised of Crystal Vista; 2006-SLID-011, comprised of Sun City Festival Parcels C1 through H1, V1, S1 and Q1; 2006-SLID-15, comprised of Riata West Unit 2; 2006-SLID-016, comprised of Sonoran Vista Units 1 and 2; 2006-SLID-17, comprised of Riata West Unit 1; 2006-SLID-19,

comprised of Sun City Festival Parcels K1, O1, M1, R1, A2, M2, U1, 4, and 6, and A1, Phase 3; 2007-SLID-001, comprised of Sundance Parcel 27; 2007-SLID-002, comprised of Sundance Parcel 25; 2007-SLID-003, comprised of Sundance Parcel 26; 2007-SLID-010, comprised of Watson Estates; 2007-SLID-013, comprised of Sun City Festival Parcels I1 and P1; 2007-SLID-021, comprised of Sun City Festival Parcel J1; 2009-SLID-02A, comprised of Watson Marketplace; 2011-SLID-001, comprised of Sundance/Yuma Commercial; 2012-SLID-02, comprised of Sienna Hills; 2013-SLID-001, comprised of Arroyo Seco North, Village 1 and Arroyo Seco South, Village 3; 2013-SLID-002, comprised of Sun City Festival Parcels L1, L1-2, HH1-1, HH1-2, HH1-3, HH1-4, HH1-5, JJ and N-1; 2015-SLID-001, comprised of Estrella Vista at Buckeye; 2017-SLID-003, comprised of Parkplace at Buckeye, Terravista Phase 1, Encantada Estates; 2018-SLID-001, comprised of Canyon Views; 2019-SLID-002 comprised of Westpark Phase II; and 2021-SLID-001, comprised of Buckeye Parkway Center.
Staff Liaison: Scott Lowe, Public Works Director

Mayor Orsborn opened a public hearing at 6:33 p.m. to citizen input regarding the final budget for the listed SLIDs for FY 2021-2022. Mr. Lowe presented a brief overview of Resolution No. 40-21 adopting the Fiscal Year 2021-2022 final budget for the listed SLIDs. There being no public comment, Mayor Orsborn closed the public hearing at 6:35 p.m. A motion was made by Councilmember Heustis and seconded by Councilmember Goodman to adopt Resolution No. 40-21 adopting the Final Budget for Fiscal Year 2021-2022 beginning July 1, 2021 and ending June 30, 2022, by the Governing Board of the following Street Lighting Improvement Districts: SLID No. 1, comprised of Sun City Festival Parcels A1 and B1; 2006-SLID-001, comprised of Vista De Montana Phases 1A, 1B, 2, and 3; 2006-SLID-002, comprised of Sundance Parcels 48, 49A; 2006-SLID-003, comprised of Blue Horizons; 2006-SLID-07, comprised of Festival Foothills Phase 1 and Units 25, 27, 29 and 31; 2006-SLID-08, comprised of Festival Foothills Phase 2; 2006-SLID-009, comprised of Crystal Vista; 2006-SLID-011, comprised of Sun City Festival Parcels C1 through H1, V1, S1 and Q1; 2006-SLID-15, comprised of Riata West Unit 2; 2006-SLID-016, comprised of Sonoran Vista Units 1 and 2; 2006-SLID-17, comprised of Riata West Unit 1; 2006-SLID-19, comprised of Sun City Festival Parcels K1, O1, M1, R1, A2, M2, U1, 4, and 6, and A1, Phase 3; 2007-SLID-001, comprised of Sundance Parcel 27; 2007-SLID-002, comprised of Sundance Parcel 25; 2007-SLID-003, comprised of Sundance Parcel 26; 2007-SLID-010, comprised of Watson Estates; 2007-SLID-013, comprised of Sun City Festival Parcels I1 and P1; 2007-SLID-021, comprised of Sun City Festival Parcel J1; 2009-SLID-02A, comprised of Watson Marketplace; 2011-SLID-001, comprised of Sundance/Yuma Commercial; 2012-SLID-02, comprised of Sienna Hills; 2013-SLID-001, comprised of Arroyo Seco North, Village 1 and Arroyo Seco South, Village 3; 2013-SLID-002, comprised of Sun City Festival Parcels L1, L1-2, HH1-1, HH1-2, HH1-3, HH1-4, HH1-5, JJ and N-1; 2015-SLID-001, comprised of Estrella Vista at Buckeye; 2017-SLID-003, comprised of Parkplace at Buckeye, Terravista Phase 1, Encantada Estates; 2018-SLID-001, comprised of Canyon Views; 2019-SLID-002 comprised of Westpark Phase II; and 2021-SLID-001, comprised of Buckeye Parkway Center. Motion passed unanimously.

3.E Council will reconvene into the Regular Council Meeting.

At 6:36 p.m. a motion was made by Councilmember Heustis and seconded by Councilmember Goodman to reconvene into the Regular Council Meeting. Motion passed unanimously.

4. Awards/Presentations/Proclamations

4.A Mayor Orsborn recognized the retirement of Jean Poe, Risk & Safety Manager, Buckeye Human Resources Department.

Mayor Orsborn recognized the retirement of Marcy Seville, Payroll Specialist, Buckeye Human Resources Department.

5. Minutes

5.A A motion was made by Councilmember Heustis and seconded by Councilmember Goodman to approve the minutes of the May 12, 2021 Council Retreat, June 1, 2021 Council Workshop and June 1, 2021 Regular Council Meeting. Motion passed unanimously.

6. Expenditures

6.A A motion was made by Councilmember Heustis and seconded by Councilmember Goodman to ratify the payment of the accounts payable expenditures made. Motion passed unanimously.

7. CONSENT AGENDA ITEMS / NEW BUSINESS

Approval of items on the Consent Agenda -All items with an (*) are considered to be routine matters and will be enacted by one motion and vote of the City Council. A motion was made by Councilmember Heustis and seconded by Councilmember Goodman to approve Items *7.A, *7.B, *7.C, *7.D, *7.E, *7.F, *7.G, and *7.H. Motion passed unanimously.

***7.A** Council to take action on Delivery Order No. 2 (Contract No. 2019010-01) between the City of Buckeye, an Arizona municipal corporation, and Achen-Gardner Construction, LLC, an Arizona limited liability company, for labor, materials, equipment and services required for a 16-inch waterline beginning at the Buckeye Airport entrance and Pal Verde Road intersection for approximately 1,329 Linear Feet (LF) to the west, and one 12" gate valve and stub out to the south of a proposed cross; and authorizing the Mayor to execute and deliver said Delivery Order on behalf of the City.
Staff Liaison: Chris Williams, Construction and Contracting Manager

Council approved Delivery Order No. 2 (Contract No. 2019010-01) between the City of Buckeye, an Arizona municipal corporation, and Achen-Gardner Construction, LLC, an Arizona limited liability company, for labor, materials, equipment and services required for a 16-inch waterline beginning at the Buckeye Airport entrance and Pal Verde Road intersection for approximately 1,329 Linear Feet (LF) to the west, and one 12" gate valve and stub out to the south of a proposed cross; and authorizing the Mayor to execute and deliver said Delivery Order on behalf of the City.

***7.B** Council to take action on Resolution No. 48-21 approving and ratifying Amendment No. 1 to the Intergovernmental Agreement between the City of Glendale and the City of Buckeye, Contract No. C18-0513, relating to the Buckeye Police Department providing law enforcement, security, and traffic management services at the University of Phoenix Stadium in Glendale, Arizona, now known as the State Farm Stadium; and authorizing the City Manager execution and delivery of said Amendment.
Staff Liaison: Larry Hall, Police Chief

Council adopted Resolution No. 48-21 approving and ratifying Amendment No. 1 to the Intergovernmental Agreement between the City of Glendale and the City of Buckeye, Contract No. C18-0513, relating to the Buckeye Police Department providing law enforcement, security, and traffic management services at the University of Phoenix Stadium in Glendale, Arizona, now known as the State Farm Stadium; and authorizing the City Manager execution and delivery of said Amendment.

***7.C** Council to take action on Resolution No. 50-21 approving Amendment No. 5 to the Restatement of Intergovernmental Agreement between the City of Buckeye and the City of Phoenix regarding a City of Phoenix Municipal Solid Waste Landfill located in Buckeye (City of Phoenix Contract No. 100744); and authorizing the Mayor to execute and deliver said Amendment.
Staff Liaison: Scott Lowe, Public Works Director

Council adopted Resolution No. 50-21 approving Amendment No. 5 to the Restatement of Intergovernmental Agreement between the City of Buckeye and the City of Phoenix regarding a City of Phoenix Municipal Solid Waste Landfill located in Buckeye (City of Phoenix Contract No. 100744); and authorizing the Mayor to execute and deliver said Amendment.

***7.D** Council to take action on Resolution No. 47-21 approving the Intergovernmental Agreement for services between Maricopa County administered by its Human Services Department, and the City of Buckeye, regarding participation in the U.S. Department of Housing and Urban Development Community Development Block Grant Program for the provision of CDBG funds for the Senior Center Kitchen Expansion and Remodel; and authorizing the Mayor and City Manager to execute and deliver said agreement and related documents on behalf of the City.
Staff Liaison: Andrea Marquez, Planner II

Council adopted Resolution No. 47-21 approving the Intergovernmental Agreement for services between Maricopa County administered by its Human Services Department, and the City of Buckeye, regarding participation in the U.S. Department of Housing and Urban Development Community Development Block Grant Program for the provision of CDBG funds for the Senior Center Kitchen Expansion and Remodel; and authorizing the Mayor and City Manager to execute and deliver said agreement and related documents on behalf of the City.

***7.E** Council to take action on the purchase order for the purchase of a replacement fire engine, in an amount not to exceed $610,000, through a contract awarded to Sutphen Corporation effective April 16, 2018 through April 16, 2022, pursuant to a cooperative contract with the National Joint Powers Alliance (NJPA Contract # 022818); and authorize the City Manager to execute and deliver said purchase order.
Staff Liaison: Bill Stockley, Interim Fire Chief

Council approved the purchase order for the purchase of a replacement fire engine, in an amount not to exceed $610,000, through a contract awarded to Sutphen Corporation effective April 16, 2018 through April 16, 2022, pursuant to a cooperative contract with the National Joint Powers Alliance (NJPA Contract # 022818); and authorize the City Manager to execute and deliver said purchase order.

***7.F** Council to take action on a re-plat of Lot 8 in Miller Commerce Center, located at the northwest corner Durango Street and Miller Road.
Staff Liaison: Robert Busick, Planner II

Council approved a re-plat of Lot 8 in Miller Commerce Center, located at the northwest corner Durango Street and Miller Road.

***7.G** Council to take action on Resolution No. 49-21 adopting a Public Safety Personnel Retirement System Pension Funding Policy pursuant to Laws 2018, Chapter 112; providing for repeal of conflicting Resolutions.
Staff Liaison: Nancy Love, Human Resources Director

Council adopted Resolution No. 49-21 adopting a Public Safety Personnel Retirement System Pension Funding Policy pursuant to Laws 2018, Chapter 112; providing for repeal of conflicting Resolutions.

***7.H** Council to take action on the United States Department of the Interior, Bureau of Land Management, Right-of-Way Grant/Temporary Use Permit for Canyon Springs Boulevard relating to Spurlock Ranch and the road/bridge that is to be constructed over the Central Arizona Project canal; and authorizing the Mayor to execute and deliver said Right of Way Grant/Temporary Use Permit on behalf of the City.
Staff Liaison: Scott Zipprich, City Engineer

Council approved the United States Department of the Interior, Bureau of Land Management, Right-of-Way Grant/Temporary Use Permit for Canyon Springs Boulevard relating to Spurlock Ranch and the road/bridge that is to be constructed over the Central Arizona Project canal; and authorizing the Mayor to execute and deliver said Right of Way Grant/Temporary Use Permit on behalf of the City.

8. Public Hearings / Non-Consent - New Business

8.A Council to take action on approving the United States Department of the Interior, Bureau of Reclamation, Subcontract among the United States, the Central Arizona Water Conservation District, and the City of Buckeye, providing for water service in connection with delivery of Central Arizona Project Non-Indian Agricultural Priority Water; and authorizing the Mayor to execute and deliver said Subcontract.
Staff Liaison: Ron Whitler, Water Resources Hydrologist

Ms. Solano presented information regarding the Subcontract. The City of Buckeye applied for a Central Arizona Project Non-Indian Agricultural Priority Water allocation in June 2013. In January 2014, the Arizona Department of Water Resources recommended that the City of Buckeye receive an annual allocation of 2,786 acre-feet per year for 100 years (2,786 acre-feet is nearly 908 million gallons). In order to receive this water, a subcontract must be executed among the United States Bureau of Reclamation, the Central Arizona Water Conservation District (CAWCD), and the City of Buckeye. The draft subcontract for this water was received by the City on April 28, 2021. This water will initially be available for delivery during calendar year 2022. Water shortages are expected and it is important to maintain this resource. Costs related to purchase of the NIA water will be paid over five years; costs were listed and reviewed. Anticipated FY 2021-2022 costs for the NIA Water will total $1,812,515.88. Water use options were described. Staff recommends approval of the Subcontract and purchase of the water allocation. A motion was made by Councilmember Heustis and seconded by Councilmember Goodman to approve the United States Department of the Interior, Bureau of Reclamation, Subcontract among the United States, the Central Arizona Water Conservation District, and the City of Buckeye, providing for water service in connection with delivery of Central Arizona Project Non-Indian Agricultural Priority Water; and authorizing the Mayor to execute and deliver said Subcontract. Motion passed unanimously.

9. City Manager's Report and Summary of Current Events

Mr. Shano presented a brief summary of current events.

10. Comments from the Mayor and Council

Vice Mayor Youngker: absent.

Councilmember HagEstad: no comment.Councilmember Goodman: presented a boards and commissions update; thanked Community Services Department for a fun and successful Fourth of July event.

Councilmember Heustis: thanked Community Services Department for a fun and successful Fourth of July event.

Councilmember Guy: no comment.

Councilmember Hess: thanked Jean Poe and Marcy Seville for their service to Buckeye and wished them a happy retirement; thanked Community Services Department for a fun and successful Fourth of July event.

Mayor Orsborn: thanked Community Services, Public Works, and Police Departments for a fun and successful Fourth of July event.

11. Council will make a motion to adjourn the meeting

A motion was made by Councilmember Heustis and seconded by Councilmember Goodman to adjourn the meeting at 6:49 p.m. Motion passed unanimously.

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda J. Aja, City Clerk

I hereby certify that the foregoing minutes are a true and correct copy of the Regular and Special Council Meeting held on July 6, 2021. I further certify that a quorum was present.

_____
Lucinda J. Aja, City Clerk

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 5.A. City Expenditures
DATE PREPARED: 08/12/21	**DISTRICT NO.:** All
STAFF LIAISON:	
DEPARTMENT: Financial Services	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on the request to ratify the payment of the accounts payable expenditures made. Copies of invoices are available at City Hall.

RELEVANT GOALS:
GOAL 1: Fiscal Wellness and Financial Flexibility and Accountability

SUMMARY

PROJECT DESCRIPTION:
Council to take action on the request to ratify the accounts payable expenditures made. Copies of invoices are available at City Hall.

BUDGETED:
Yes

FISCAL YEAR:
FY2020-2021

FUND/DEPARTMENT:
Various

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
Expenditures FY20-21
Expenditures FY21-22
Wire Transfers April-June 8 2021
Wire Transfers June 9-June 30 2021

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136158	06/09/2021	PRTD	6456	3 MINUTE BUCKEYE LLC	August 2020	09/01/2020	22100584	060921ap	1,854.84
Invoice: August 2020					OPEN PO - Vehicle Washes				
				1,854.84 10002121 521508	Automotive Expenses				
				3 MINUTE BUCKEYE LLC	September 2020	09/30/2020	22100584	060921ap	1,870.83
Invoice: September 2020					OPEN PO - Vehicle Washes				
				1,870.83 10002121 521508	Automotive Expenses				
				3 MINUTE BUCKEYE LLC	October 2020	10/31/2020	22100584	060921ap	1,886.82
Invoice: October 2020					OPEN PO - Vehicle Washes				
				1,886.82 10002121 521508	Automotive Expenses				
				3 MINUTE BUCKEYE LLC	November 2020	12/03/2020	22100584	060921ap	1,854.84
Invoice: November 2020					OPEN PO - Vehicle Washes				
				1,854.84 10002121 521508	Automotive Expenses				
				3 MINUTE BUCKEYE LLC	December 2020	01/03/2021	22100584	060921ap	1,886.82
Invoice: December 2020					OPEN PO - Vehicle Washes				
				1,886.82 10002121 521508	Automotive Expenses				
				3 MINUTE BUCKEYE LLC	January 2021	02/03/2021	22100584	060921ap	1,918.80
Invoice: January 2021					OPEN PO - Vehicle Washes				
				1,918.80 10002121 521508	Automotive Expenses				
				3 MINUTE BUCKEYE LLC	February 2021	03/10/2021	22100584	060921ap	1,950.78
Invoice: February 2021					OPEN PO - Vehicle Washes				
				1,950.78 10002121 521508	Automotive Expenses				
				3 MINUTE BUCKEYE LLC	March 2021	04/14/2021	22100584	060921ap	1,966.77
Invoice: March 2021					OPEN PO - Vehicle Washes				
				1,966.77 10002121 521508	Automotive Expenses				
				3 MINUTE BUCKEYE LLC	5.26.2021	05/26/2021	22100629	060921ap	131.94
Invoice: 5.26.2021					Car Wash for Vehicles for Civi				
				131.94 10005185 521508	Automotive Expenses				
				3 MINUTE BUCKEYE LLC	052621	05/26/2021	22100192	060921ap	177.89
Invoice: 052621					Car Wash for Vehicles				
				177.89 10002140 521508	Automotive Expenses				
						CHECK	136158 TOTAL:		15,500.33
136159	06/09/2021	PRTD	5203	ACCURATE CORROSION CONTROL, INC.	11795	05/31/2021	22101090	060921ap	4,950.00
Invoice: 11795					ANNUAL SERVICE OF CATHODIC PROTECTION SYSTEMS				
				330.00 40003212 520577	Reservoir/Booster Maint/Repair				
				2,310.00 40003213 520577	Reservoir/Booster Maint/Repair				
				330.00 40003214 520577	Reservoir/Booster Maint/Repair				
				660.00 40003215 520577	Reservoir/Booster Maint/Repair				
				990.00 40003216 520577	Reservoir/Booster Maint/Repair				
				330.00 40003218 520577	Reservoir/Booster Maint/Repair				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136159 TOTAL:	4,950.00
136160	06/09/2021	PRTD	5566	ACRO SERVICE CORPORATION	1332051	05/30/2021	22101221	060921ap	727.75
	Invoice: 1332051					OPEN PO - Support Services			
					727.75 10002121 520012	Contract Labor			
							CHECK	136160 TOTAL:	727.75
136161	06/09/2021	PRTD	5566	ACRO SERVICE CORPORATION	1304810	05/02/2021	22100256	060921ap	1,527.60
	Invoice: 1304810					ENGINEERING SERVICES, PROFESSI			
					1,527.60 10005185 520037	Professional Services General			
				ACRO SERVICE CORPORATION	1311639	05/09/2021	22100256	060921ap	1,273.00
	Invoice: 1311639					ENGINEERING SERVICES, PROFESSI			
					1,273.00 10005185 520037	Professional Services General			
				ACRO SERVICE CORPORATION	1297428	04/25/2021	22100256	060921ap	1,273.00
	Invoice: 1297428					ENGINEERING SERVICES, PROFESSI			
					1,273.00 10005185 520037	Professional Services General			
				ACRO SERVICE CORPORATION	1318301	05/16/2021	22100256	060921ap	1,273.00
	Invoice: 1318301					ENGINEERING SERVICES, PROFESSI			
					1,273.00 10005185 520037	Professional Services General			
				ACRO SERVICE CORPORATION	1324751	05/23/2021	22100256	060921ap	1,782.20
	Invoice: 1324751					ENGINEERING SERVICES, PROFESSI			
					1,782.20 10005185 520037	Professional Services General			
				ACRO SERVICE CORPORATION	1325052	05/23/2021	22100055	060921ap	696.75
	Invoice: 1325052					Temporary Labor for Water Admi			
					348.37 40003210 520037	Professional Services General			
					348.38 40013220 520037	Professional Services General			
				ACRO SERVICE CORPORATION	1332049	05/30/2021	22100150	060921ap	718.80
	Invoice: 1332049					Open PO - Hearing Officer - Ja			
					718.80 30522121 510001	Salaries and Wages			
							CHECK	136161 TOTAL:	8,544.35
136162	06/09/2021	PRTD	6780	ADVANCED WORKPLACE STRATEGIES, IN	473638	05/31/2021	22100721	060921ap	932.10
	Invoice: 473638					Open PO for Pre-Employment Dru			
					932.10 10001115 520029	Pre-Employment Testing			
							CHECK	136162 TOTAL:	932.10
136163	06/09/2021	PRTD	1088	AMERICAN TOWER CORP	3617954	05/26/2021	22100021	060921ap	4,974.82
	Invoice: 3617954					Tower Lease			
					4,974.82 10002121 521505	Equipment Rental			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136163 TOTAL:	4,974.82
136164	06/09/2021	PRTD	6338	AMF BOWLING CENTERS, INC.	864-2404	06/02/2021	22101306	060921ap	349.84
Invoice: 864-2404					Summer 2021 program field trips				
					349.84 10004153 520015 Contractual Svc BASE				
							CHECK	136164 TOTAL:	349.84
136165	06/09/2021	PRTD	6851	AMILIA CONSULTING USA	INV-0285	05/31/2021	22101188	060921ap	7,050.00
Invoice: INV-0285					Cost recovery and fee study				
					7,050.00 10004150 520037 Professional Services General				
							CHECK	136165 TOTAL:	7,050.00
136166	06/09/2021	PRTD	1104	ARAMARK UNIFORM & CAREER APPAREL	473000247265	05/27/2021	22100378	060921ap	675.54
Invoice: 473000247265					CLOTHING: ATHLETIC, CASUAL, DR				
					427.49 40003210 521922 Uniforms				
					248.05 40013220 521922 Uniforms				
				ARAMARK UNIFORM & CAREER APPAREL	473000250076	06/03/2021	22100378	060921ap	643.54
Invoice: 473000250076					CLOTHING: ATHLETIC, CASUAL, DR				
					395.49 40003210 521922 Uniforms				
					248.05 40013220 521922 Uniforms				
							CHECK	136166 TOTAL:	1,319.08
136167	06/09/2021	PRTD	6626	LAND ADVISORS ORGANIZATION	2021-1032-AZ	06/07/2021	22100251	060921ap	373.75
Invoice: 2021-1032-AZ					Land Advisor Healthcare Consul				
					373.75 10001187 520037 Professional Services General				
							CHECK	136167 TOTAL:	373.75
136168	06/09/2021	PRTD	5686	ARIZONA PPE RECON, INC.	2740	05/12/2021	22100275	060921ap	584.50
Invoice: 2740					PPE Cleaning and Repair				
					584.50 10002140 520518 Equip Testing & Certification				
							CHECK	136168 TOTAL:	584.50
136169	06/09/2021	PRTD	6665	ASPIN/MOHAVE	21B07956	06/04/2021	22100051	060921ap	1,908.27
Invoice: 21B07956					OPEN PO- Food & supplies for s				
					1,908.27 35754150 521502 Program Supplies/Equipment				
							CHECK	136169 TOTAL:	1,908.27

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136170	06/09/2021	PRTD	1177	ARIZONA PUBLIC SERVICE CO	AR0360001260	06/03/2021	22101126	060921ap	20,468.83
Invoice: AR0360001260						1/3 Participation of APS Brine Management Study			
				20,468.83	40003210 520037	Professional Services General			
								CHECK 136170 TOTAL:	20,468.83
136171	06/09/2021	PRTD	6548	BADGER METER INC	1436467	05/24/2021	22101353	060921ap	37,162.00
Invoice: 1436467						PURCHASE OF WATER METERS FOR PROJECTS			
				37,162.00	40003351 520575	Water Meters R & M			
				BADGER METER INC	1436174	05/21/2021	22101353	060921ap	37,162.00
Invoice: 1436174						PURCHASE OF WATER METERS FOR PROJECTS			
				37,162.00	40003351 520575	Water Meters R & M			
				BADGER METER INC	1436466	05/24/2021	22101287	060921ap	49,594.88
Invoice: 1436466						PURCHASE METERS FOR SUNDANCE CHANGE OUTS			
				49,594.88	40003351 520575	Water Meters R & M			
								CHECK 136171 TOTAL:	123,918.88
136172	06/09/2021	PRTD	6467	BIO-AQUATIC TESTING INC	00057767	11/30/2020		060921ap	2,785.00
Invoice: 00057767						WET Testing			
				2,785.00	40013224 520049	Laboratory Fees			
								CHECK 136172 TOTAL:	2,785.00
136173	06/09/2021	PRTD	6859	CALIFORNIA ENVIRONMENTAL CONTROLS	4373	06/07/2021	22101229	060921ap	6,893.00
Invoice: 4373						NORTH AIRPORT FILTER "A" REPLACEMENT HEADER			
				6,893.00	40033210 549999	Completed Capital			
								CHECK 136173 TOTAL:	6,893.00
136174	06/09/2021	PRTD	3107	CALMAT CO	80838896	05/28/2021	22100350	060921ap	353.27
Invoice: 80838896						FY 20/21 - ASPHALT/ PATCHING M			
				353.27	38103202 520502	Street Overlay R & M			
				CALMAT CO	80837680	05/26/2021	22100350	060921ap	176.64
Invoice: 80837680						FY 20/21 - ASPHALT/ PATCHING M			
				176.64	38103202 520502	Street Overlay R & M			
								CHECK 136174 TOTAL:	529.91
136175	06/09/2021	PRTD	1279	CANON SOLUTIONS AMERICA, INC	56759	05/31/2021	22100257	060921ap	545.35
Invoice: 56759						EQUIPMENT MAINTENANCE AND REPA			
				545.35	10005185 520525	Hardware Maintenance			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
				CANON SOLUTIONS AMERICA, INC	4040342400	05/31/2021	22100001	060921ap	168.30
Invoice: 4040342400						EQUIPMENT MAINTENANCE AND REPA			
				168.30	10005180 520037	Professional Services General			
						CHECK	136175	TOTAL:	713.65
136176	06/09/2021	PRTD	5629	CARDNO, INC.	529295	05/14/2021	22100855	060921ap	5,943.24
Invoice: 529295						Professional Services - Standard & Design Update			
				5,943.24	10005185 520006	Engineering Services			
						CHECK	136176	TOTAL:	5,943.24
136177	06/09/2021	PRTD	3021	CINTAS CORPORATION NO 3	4086150057	06/03/2021	22100103	060921ap	9.72
Invoice: 4086150057						FY 20/21 - UNIFORMS OPEN PO			
				9.72	40053205 521922	Uniforms			
				CINTAS CORPORATION NO 3	4086150199	06/03/2021	22100277	060921ap	105.21
Invoice: 4086150199						FY 20/21 - UNIFORM RENTAL			
				105.21	38103202 521922	Uniforms			
				CINTAS CORPORATION NO 3	4086150140	06/03/2021	22100297	060921ap	71.64
Invoice: 4086150140						FY 20/21 - FLEET UNIFORMS			
				71.64	10003171 521922	Uniforms			
						CHECK	136177	TOTAL:	186.57
136178	06/09/2021	PRTD	5051	CONSTRUCTION PRODUCT MARKETING	3155	05/26/2021	22100859	060921ap	3,768.48
Invoice: 3155						HYDROGEN SULFIDE LOGGER			
				3,768.48	40013222 520543	WW R&M			
						CHECK	136178	TOTAL:	3,768.48
136179	06/09/2021	PRTD	6235	CONSULTANT ENGINEERING, INC.	0116764.01 - 210401S	05/27/2021	22101174	060921ap	3,029.20
Invoice: 0116764.01 - 210401S						Task Order No. 4 Plan Review Services			
				3,029.20	10005185 520006	Engineering Services			
						CHECK	136179	TOTAL:	3,029.20
136180	06/09/2021	PRTD	6819	CS CONSTRUCTION, INC.	16148	05/31/2021	22100934	060921ap	303,941.50
Invoice: 16148						Communication Pole Installation			
				303,941.50	40001113 543128	9 Monopoles			
						CHECK	136180	TOTAL:	303,941.50

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136181	06/09/2021	PRTD	1343	CUMMINS ROCKY MOUNTAIN, LLC	54-68034	05/07/2021	22100769	060921ap	1,863.34
	Invoice: 54-68034					EQUIPMENT MAINTENANCE AND REPA			
				1,863.34	40003215 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-71091	05/21/2021	22100151	060921ap	25.30
	Invoice: 54-71091					AUTOMOTIVE /EQUIPMENT AND PART			
				25.30	10003171 522155	Operational Supplies			
				CUMMINS ROCKY MOUNTAIN, LLC	54-71361	05/24/2021	22100151	060921ap	448.60
	Invoice: 54-71361					AUTOMOTIVE /EQUIPMENT AND PART			
				448.60	10003171 522155	Operational Supplies			
				CUMMINS ROCKY MOUNTAIN, LLC	54-71827	05/26/2021	22100151	060921ap	4,177.12
	Invoice: 54-71827					AUTOMOTIVE /EQUIPMENT AND PART			
				4,177.12	10003171 522155	Operational Supplies			
				CUMMINS ROCKY MOUNTAIN, LLC	54-71108	05/21/2021	22100151	060921ap	83.33
	Invoice: 54-71108					AUTOMOTIVE /EQUIPMENT AND PART			
				83.33	10003171 522155	Operational Supplies			
				CUMMINS ROCKY MOUNTAIN, LLC	S1-95090	03/23/2021	22100151	060921ap	-49.63
	Invoice: S1-95090					AUTOMOTIVE /EQUIPMENT AND PART			
				-49.63	10003171 522155	Operational Supplies			
						CHECK	136181 TOTAL:		6,548.06
136182	06/09/2021	PRTD	6721	DCS MANAGMENT, LLC	67121	05/31/2021	22100864	060921ap	632.50
	Invoice: 67121					DCS COURIER SERVICES WASTEWATER			
				632.50	40013221 520049	Laboratory Fees			
						CHECK	136182 TOTAL:		632.50
136183	06/09/2021	PRTD	5337	DESERT CHOICE TRANSPORT, LLC	6240	05/31/2021	22101330	060921ap	852.50
	Invoice: 6240					Summer 2021 transportation for youth programs			
				852.50	10004153 521537	Program Transportation			
						CHECK	136183 TOTAL:		852.50
136184	06/09/2021	PRTD	3032	ECD SYSTEMS LLC	16018	04/09/2021	22100138	060921ap	26.00
	Invoice: 16018					FY 20/21 - CITYWIDE FIRE MONIT			
				26.00	10003172 526121	On-line Subscriptions			
				ECD SYSTEMS LLC	16078	04/09/2021	22100138	060921ap	132.96
	Invoice: 16078					FY 20/21 - CITYWIDE FIRE MONIT			
				132.96	10003172 526121	On-line Subscriptions			
				ECD SYSTEMS LLC	16029	04/09/2021	22100138	060921ap	26.00
	Invoice: 16029					FY 20/21 - CITYWIDE FIRE MONIT			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
					26.00 10003172 526121	On-line Subscriptions			
				ECD SYSTEMS LLC	16026	04/09/2021 22100138 060921ap			44.00
Invoice: 16026						FY 20/21 - CITYWIDE FIRE MONIT			
					44.00 10003172 526121	On-line Subscriptions			
				ECD SYSTEMS LLC	16025	04/09/2021 22100138 060921ap			44.00
Invoice: 16025						FY 20/21 - CITYWIDE FIRE MONIT			
					44.00 10003172 526121	On-line Subscriptions			
				ECD SYSTEMS LLC	16020	04/09/2021 22100137 060921ap			26.00
Invoice: 16020						FY 20/21 - SUNDANCE FIRE ALARM			
					26.00 10003176 526121	On-line Subscriptions			
				ECD SYSTEMS LLC	16021	04/09/2021 22100137 060921ap			26.00
Invoice: 16021						FY 20/21 - SUNDANCE FIRE ALARM			
					26.00 10003176 526121	On-line Subscriptions			
				ECD SYSTEMS LLC	16022	04/09/2021 22100137 060921ap			26.00
Invoice: 16022						FY 20/21 - SUNDANCE FIRE ALARM			
					26.00 10003176 526121	On-line Subscriptions			
								CHECK 136184 TOTAL:	350.96
136185	06/09/2021	PRTD	5751	EXECUPUNDIT CONSULTING, LLC	BUCENG01051121	05/11/2021 22100423 060921ap			675.00
Invoice: BUCENG01051121						ENGINEERING SERVICES, PROFESSI			
					675.00 10005185 526110	Conference and Seminars			
								CHECK 136185 TOTAL:	675.00
136186	06/09/2021	PRTD	1420	FAAC INCORPORATED	003462	06/03/2021 22100363 060921ap			8,600.00
Invoice: 003462						Annual Warranty for Drivers Si			
					8,600.00 10002140 520518	Equip Testing & Certification			
								CHECK 136186 TOTAL:	8,600.00
136187	06/09/2021	PRTD	1432	FERGUSON WATERWORKS #3083	0427064	05/25/2021 22100153 060921ap			333.80
Invoice: 0427064						PARTS AND MATERIAL FOR PREVENT			
					333.80 40003231 521512	Parts/Materials			
				FERGUSON WATERWORKS #3083	0428047	05/21/2021 22100153 060921ap			543.01
Invoice: 0428047						PARTS AND MATERIAL FOR PREVENT			
					543.01 40003231 521512	Parts/Materials			
								CHECK 136187 TOTAL:	876.81

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136188	06/09/2021	PRTD	1440	FLEETPRIDE, INC	73259598	05/05/2021	22100288	060921ap	168.35
Invoice: 73259598						AUTOMOTIVE / EQUIPMENT AND PAR			
					168.35 10003171 522155	Operational Supplies			
						CHECK	136188 TOTAL:		168.35
136189	06/09/2021	PRTD	6551	G4S SECURE SOLUTIONS USA INC	11826160	05/30/2021	22100756	060921ap	837.36
Invoice: 11826160						SECURITY OFFICER SERVICES CONT			
					418.68 40003210 520037	Professional Services General			
					418.68 40013220 520037	Professional Services General			
				G4S SECURE SOLUTIONS USA INC	11803735	05/23/2021	22100756	060921ap	837.36
Invoice: 11803735						SECURITY OFFICER SERVICES CONT			
					418.68 40003210 520037	Professional Services General			
					418.68 40013220 520037	Professional Services General			
						CHECK	136189 TOTAL:		1,674.72
136190	06/09/2021	PRTD	1467	GEMINI GROUP LLC	12114435	06/03/2021	22101091	060921ap	3,998.00
Invoice: 12114435						PRINTING SERVICES FOR ANNUAL CCR			
					3,998.00 40003210 520037	Professional Services General			
						CHECK	136190 TOTAL:		3,998.00
136191	06/09/2021	PRTD	1486	GRAYBAR	9321728774	06/01/2021	22101276	060921ap	4,594.11
Invoice: 9321728774						CAMERAS FOR UB FRONT DESK			
					2,297.06 40003210 521521	IT Equipment <$5000			
					2,297.05 40013220 521521	IT Equipment <$5000			
						CHECK	136191 TOTAL:		4,594.11
136192	06/09/2021	PRTD	1497	HAMILTON'S TOWING	105096	05/27/2021	22100116	060921ap	100.00
Invoice: 105096						VEHICLE TOWING-ON CALL SERVICE			
					100.00 10003171 520033	Vehicle Towing			
						CHECK	136192 TOTAL:		100.00
136193	06/09/2021	PRTD	1501	HARRINGTON INDUSTRIAL PLASTIC LLC	015Q9789	05/25/2021	22100094	060921ap	939.19
Invoice: 015Q9789						PIPE AND TUBING FITTINGS OPEN			
					939.19 40003231 521512	Parts/Materials			
				HARRINGTON INDUSTRIAL PLASTIC LLC	015Q9787	05/25/2021	22100059	060921ap	323.80
Invoice: 015Q9787						PLASTIC FITTINGS, VALVES AND P			
					168.74 40003216 520585	Treatment Plant O&M			
					155.06 40003217 520585	Treatment Plant O&M			

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CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136193 TOTAL:	1,262.99
136194	06/09/2021	PRTD	1509	HENRY SCHEIN INC	20210515	05/15/2021	22100172	060921ap	13,543.40
	Invoice: 20210515					Medical Supplies			
					13,543.40 10002140 522153	Medical Supplies			
				HENRY SCHEIN INC	94172158	05/25/2021	22100172	060921ap	272.81
	Invoice: 94172158					Medical Supplies			
					272.81 10002140 522153	Medical Supplies			
							CHECK	136194 TOTAL:	13,816.21
136195	06/09/2021	PRTD	1513	HILL BROTHERS CHEMICAL COMPANY	07093819	05/13/2021	22100043	060921ap	8,725.09
	Invoice: 07093819					CHEMICALS TO TREAT AND DISINFE			
					8,725.09 40003213 521540	Chemicals			
				HILL BROTHERS CHEMICAL COMPANY	07095809	06/02/2021	22100043	060921ap	238.92
	Invoice: 07095809					CHEMICALS TO TREAT AND DISINFE			
					238.92 40003212 521540	Chemicals			
				HILL BROTHERS CHEMICAL COMPANY	07095810	06/02/2021	22100043	060921ap	2,527.67
	Invoice: 07095810					CHEMICALS TO TREAT AND DISINFE			
					2,527.67 40003218 521540	Chemicals			
							CHECK	136195 TOTAL:	11,491.68
136196	06/09/2021	PRTD	6556	ABRAZO WEST CAMPUS ATTN: ACCOUNTI	AWC 0043021-Fire	05/13/2021	22100191	060921ap	95.15
	Invoice: AWC 0043021-Fire					Medical/Drug Restock			
					95.15 10002140 522153	Medical Supplies			
							CHECK	136196 TOTAL:	95.15
136197	06/09/2021	PRTD	6119	ISC SALES, INC.	0159144-IN	05/28/2021	22100693	060921ap	3,020.75
	Invoice: 0159144-IN					REPLACEMENT AC UNIT FOR PANELS			
					3,020.75 40013222 520543	WW R&M			
				ISC SALES, INC.	0159143-IN	05/28/2021	22100683	060921ap	2,703.00
	Invoice: 0159143-IN					REPLACEMENT AC UNIT FOR PANELS			
					2,703.00 40013221 520540	Wastewater Plant R & M			
							CHECK	136197 TOTAL:	5,723.75
136198	06/09/2021	PRTD	1571	JAMES, COOKE & HOBSON, INC	366017	05/14/2021	22101005	060921ap	15,023.29
	Invoice: 366017					(2) 3 HP FLYGT SUBMERSIBLE PUMPS FOR SUNDANCE WRF			
					15,023.29 40013222 541070	Other Equipment >$5,000			

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CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136198 TOTAL:	15,023.29
136199	06/09/2021	PRTD	3051	JOHNSON CONTROLS INC	1-105092202164	06/03/2021	22100306	060921ap	1,591.40
Invoice: 1-105092202164						AC MAINTENANCE, REPAIR & REPLA			
					1,591.40 40003216 520577	Reservoir/Booster Maint/Repair			
							CHECK	136199 TOTAL:	1,591.40
136200	06/09/2021	PRTD	6772	JUSTIFACTS CREDENTIAL VERIFICATIO	332538	05/31/2021	22100732	060921ap	664.00
Invoice: 332538						Open PO for Pre-Employment Bac			
					664.00 10001115 520029	Pre-Employment Testing			
							CHECK	136200 TOTAL:	664.00
136201	06/09/2021	PRTD	5666	KIMLEY-HORN AND ASSOCIATES, INC.	18755611	04/30/2021	22000852	060921ap	2,471.25
Invoice: 18755611						CIP# 100490 SKYLINE REGIONAL P			
					2,471.25 50214150 543065	Skyline Regional Park Ph II			
				KIMLEY-HORN AND ASSOCIATES, INC.	18247098	01/31/2021	22001016	060921ap	1,421.00
Invoice: 18247098						N. ZONE PARK SITE ASSESSMENT &			
					1,421.00 50214150 543062	NZone 30-acre Community Park			
				KIMLEY-HORN AND ASSOCIATES, INC.	18470756	02/28/2021	22001016	060921ap	12,268.00
Invoice: 18470756						N. ZONE PARK SITE ASSESSMENT &			
					12,268.00 50214150 543062	NZone 30-acre Community Park			
							CHECK	136201 TOTAL:	16,160.25
136202	06/09/2021	PRTD	5588	LAYNE CHRISTENSEN COMPANY	2019443	05/25/2021	22100831	060921ap	207,938.34
Invoice: 2019443						East Vessel at Sonoran Vista			
					207,938.34 40001113 543141	Sonoran Vista East Vessel Repl			
							CHECK	136202 TOTAL:	207,938.34
136203	06/09/2021	PRTD	1614	LIFELOC TECHNOLOGIES INC	350569	04/28/2021	22101135	060921ap	3,319.00
Invoice: 350569						Portable Breath Testers - Grant Funded			
					3,319.00 35732121 523124	GOHS-Prop 207 Fund			
							CHECK	136203 TOTAL:	3,319.00
136204	06/09/2021	PRTD	1622	LOOMIS	12814031	05/31/2021	22100292	060921ap	1,429.84
Invoice: 12814031						UTILITY BILLING COURIER SERVIC			
					357.46 10001110 520037	Professional Services General			
					357.46 40003230 520037	Professional Services General			
					357.46 40013230 520037	Professional Services General			
					357.46 40053230 520037	Professional Services General			

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CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136204 TOTAL:	1,429.84
136205	06/09/2021	PRTD	5342	M & M PORTABLE TOILETS LLC	I5692	06/01/2021	22100319	060921ap	163.95
Invoice: I5692						Toilet and Sink Rental at Ceme			
					163.95 50012140 521505	Equipment Rental			
				M & M PORTABLE TOILETS LLC	I5717	06/01/2021	22100197	060921ap	125.70
Invoice: I5717						Toilet and Sink Rental at Trai			
					125.70 10002140 521505	Equipment Rental			
							CHECK	136205 TOTAL:	289.65
136206	06/09/2021	PRTD	1652	MARICOPA COUNTY SHERIFF'S OFFICE	APR21HSNG	05/30/2021	22100027	060921ap	24,059.97
Invoice: APR21HSNG						Prisoner Incarceration Fees fo			
					24,059.97 10002121 520008	Prisoner/Incarceration (MCSO)			
							CHECK	136206 TOTAL:	24,059.97
136207	06/09/2021	PRTD	1684	MOTOROLA SOLUTIONS, INC	8230316745	04/21/2021	22101356	060921ap	14,360.01
Invoice: 8230316745						Spillman Hardware Renewal			
					14,360.01 10002121 520525	Hardware Maintenance			
							CHECK	136207 TOTAL:	14,360.01
136208	06/09/2021	PRTD	6877	MPS TECHLINE OF PA, INC.	2021-0140	06/08/2021	22101349	060921ap	10,487.58
Invoice: 2021-0140						Grant-Funded Trauma Equipment			
					487.58 10002121 521509	Public Safety Equipment			
					10,000.00 35732121 523115	100 Club			
							CHECK	136208 TOTAL:	10,487.58
136209	06/09/2021	PRTD	1686	MUNICIPAL CODE CORPORATION	00357577	05/20/2021	22100013	060921ap	2,441.00
Invoice: 00357577						Open PO for Municode FY 20-21			
					2,441.00 10001102 523055	Legal Printing and Advertising			
							CHECK	136209 TOTAL:	2,441.00
136210	06/09/2021	PRTD	1687	MUNICIPAL EMERGENCY SERVICES	IN1578180	05/11/2021	22100287	060921ap	918.89
Invoice: IN1578180						SCBA Masks and Repairs			
					918.89 10002140 520525	Hardware Maintenance			
				MUNICIPAL EMERGENCY SERVICES	IN1578177	05/11/2021	22101115	060921ap	137.58
Invoice: IN1578177						FIRE FIGHTING EQUIPMENT AND SUPPLIES			
					137.58 10002140 522151	Fire Supplies			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136210 TOTAL:	1,056.47
136211	06/09/2021	PRTD	6451	NESTLE WATERS NORTH AMERICA	01E6700439645	06/02/2021	22100369	060921ap	195.35
	Invoice: 01E6700439645				COOLERS, DRINKING WATER (WATER				
				195.35 10005180 521501	Office Supplies				
				NESTLE WATERS NORTH AMERICA	01E6700459152	06/02/2021	22100344	060921ap	166.00
	Invoice: 01E6700459152				FY 20/21 - NESTLE WATER				
				41.50 10003170 521501	Office Supplies				
				41.50 10003172 521501	Office Supplies				
				41.50 38103202 521501	Office Supplies				
				41.50 40053205 521501	Office Supplies				
				NESTLE WATERS NORTH AMERICA	01E6700439637	06/02/2021	22100367	060921ap	55.78
	Invoice: 01E6700439637				Nestle Bottled Water				
				55.78 10002120 521501	Office Supplies				
				NESTLE WATERS NORTH AMERICA	01E6700459147	06/02/2021	22100343	060921ap	257.26
	Invoice: 01E6700459147				COOLERS, DRINKING WATER (WATER				
				257.26 10004150 521501	Office Supplies				
				NESTLE WATERS NORTH AMERICA	01E6701000492	06/02/2021	22100337	060921ap	12.72
	Invoice: 01E6701000492				OFFICE SUPPLIES, GENERAL				
				12.72 10001110 521501	Office Supplies				
				NESTLE WATERS NORTH AMERICA	01E6700441336	06/02/2021	22100630	060921ap	68.75
	Invoice: 01E6700441336				Nestle Bottled Water				
				68.75 10001189 521501	Office Supplies				
				NESTLE WATERS NORTH AMERICA	01E6700441315	06/02/2021	22100479	060921ap	493.77
	Invoice: 01E6700441315				Bottled Water for PD Stations				
				493.77 10002121 522155	Operational Supplies				
							CHECK	136211 TOTAL:	1,249.63
136212	06/09/2021	PRTD	999994	Serena Rash	250128	06/07/2021		060921ap	135.00
	Invoice: 250128				Activity canceled - Soccer camp				
				135.00 1000 204000	Deferred Revenue				
							CHECK	136212 TOTAL:	135.00
136213	06/09/2021	PRTD	5513	PARTS MART	851435P	05/25/2021	22100348	060921ap	182.65
	Invoice: 851435P				AUTOMOTIVE AND TRAILER EQUIPME				
				146.10 10003171 522155	Operational Supplies				
				36.55 40013220 521508	Automotive Expenses				
							CHECK	136213 TOTAL:	182.65

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136214	06/09/2021	PRTD	6870	THE MEJORANDO GROUP	38-2021	06/03/2021	22101289	060921ap	4,100.00
Invoice: 38-2021					4,100.00 10004150 520037	CONSULTING SERVICES - Strategic Planning Professional Services General			
						CHECK 136214 TOTAL:			4,100.00
136215	06/09/2021	PRTD	3024	PBC PHOENIX INC	512654	04/30/2021	22100174	060921ap	239.70
Invoice: 512654					239.70 10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract			
				PBC PHOENIX INC	512639	04/30/2021	22100680	060921ap	1,012.00
Invoice: 512639					1,012.00 10004155 520019	SKYLINE PARK CUSTODIAL CONTRAC Custodial Contract			
				PBC PHOENIX INC	512658	04/30/2021	22100176	060921ap	192.50
Invoice: 512658					192.50 10003176 520019	FY 20/21 - SUNDANCE CUSTODIAL Custodial Contract			
				PBC PHOENIX INC	512617	04/30/2021	22100174	060921ap	894.37
Invoice: 512617					894.37 10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract			
				PBC PHOENIX INC	512621	04/30/2021	22100174	060921ap	2,545.75
Invoice: 512621					2,545.75 10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract			
				PBC PHOENIX INC	512626	04/30/2021	22100176	060921ap	5,014.56
Invoice: 512626					5,014.56 10003176 520019	FY 20/21 - SUNDANCE CUSTODIAL Custodial Contract			
				PBC PHOENIX INC	512618	04/30/2021	22100174	060921ap	526.14
Invoice: 512618					526.14 10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract			
				PBC PHOENIX INC	512646	04/30/2021	22100174	060921ap	153.63
Invoice: 512646					153.63 10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract			
				PBC PHOENIX INC	508498	03/22/2021	22100174	060921ap	3,460.88
Invoice: 508498					3,460.88 10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract			
				PBC PHOENIX INC	512598	04/30/2021	22100174	060921ap	3,905.31
Invoice: 512598					3,905.31 10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract			
				PBC PHOENIX INC	512629	04/30/2021	22100174	060921ap	398.34
Invoice: 512629					398.34 10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
				PBC PHOENIX INC	515903	05/01/2021	22100174	060921ap	354.08
	Invoice: 515903					FY 20/21 - CITYWIDE CUSTODIAL			
					354.08 10003172 520019	Custodial Contract			
						CHECK	136215 TOTAL:		18,697.26
136216	06/09/2021	PRTD	1770	PIONEER TITLE AGENCY INC	501743	05/12/2021	22101295	060921ap	600.00
	Invoice: 501743					TITLE REPORTS FOR MILLER RD TO PIMA RD			
					600.00 50213170 543137	Miller Rd Exp-Durango-LBuckeye			
				PIONEER TITLE AGENCY INC	501745	05/12/2021	22101295	060921ap	600.00
	Invoice: 501745					TITLE REPORTS FOR MILLER RD TO PIMA RD			
					600.00 50213170 543137	Miller Rd Exp-Durango-LBuckeye			
				PIONEER TITLE AGENCY INC	501746	05/12/2021	22101295	060921ap	600.00
	Invoice: 501746					TITLE REPORTS FOR MILLER RD TO PIMA RD			
					600.00 50213170 543137	Miller Rd Exp-Durango-LBuckeye			
				PIONEER TITLE AGENCY INC	501749	05/12/2021	22101295	060921ap	700.00
	Invoice: 501749					TITLE REPORTS FOR MILLER RD TO PIMA RD			
					700.00 50213170 543137	Miller Rd Exp-Durango-LBuckeye			
				PIONEER TITLE AGENCY INC	501750	05/12/2021	22101295	060921ap	900.00
	Invoice: 501750					TITLE REPORTS FOR MILLER RD TO PIMA RD			
					900.00 50213170 543137	Miller Rd Exp-Durango-LBuckeye			
				PIONEER TITLE AGENCY INC	501751	05/12/2021	22101295	060921ap	1,100.00
	Invoice: 501751					TITLE REPORTS FOR MILLER RD TO PIMA RD			
					1,100.00 50213170 543137	Miller Rd Exp-Durango-LBuckeye			
						CHECK	136216 TOTAL:		4,500.00
136217	06/09/2021	PRTD	3080	PRAXAIR DISTRIBUTION INC	63696209	05/21/2021	22100062	060921ap	338.83
	Invoice: 63696209					CO2 FOR NEW AIRPORT WELL AND S			
					338.83 40003218 521540	Chemicals			
						CHECK	136217 TOTAL:		338.83
136218	06/09/2021	PRTD	1789	PRECISION ELECTRIC CO, INC	0093253-IN	05/28/2021	22101260	060921ap	3,410.74
	Invoice: 0093253-IN					NORTH AIRPORT - BOOSTER #5 MOTOR REHAB			
					3,410.74 40003216 520577	Reservoir/Booster Maint/Repair			
				PRECISION ELECTRIC CO, INC	0093144-IN	05/26/2021	22100896	060921ap	8,567.58
	Invoice: 0093144-IN					SUNDANCE ARF - RECLAIM & RECIRC PUMP MODIFICATION			
					8,567.58 40003213 520585	Treatment Plant O&M			
						CHECK	136218 TOTAL:		11,978.32

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136219	06/09/2021	PRTD	6627	RAPIDSCALE	INV00028368	06/01/2021	22100141	060921ap	1,948.55
Invoice: INV00028368						DAAS (Desktop As A Service) Mo			
				1,948.55	10001189 520030	Software Maintenance			
						CHECK	136219	TOTAL:	1,948.55
136220	06/09/2021	PRTD	5716	BLUECOSMO	BU01327833	05/24/2021	22100226	060921ap	164.40
Invoice: BU01327833						Satellite Phones Service			
				164.40	35772140 523013	Nuc Emerg. Mgmt Expenditure			
						CHECK	136220	TOTAL:	164.40
136221	06/09/2021	PRTD	1842	ROADWAY ELECTRIC LLC	56	05/27/2021	22100157	060921ap	16,700.00
Invoice: 56						Open PO for Streetlight Repair			
				16,700.00	31001115 523009	Losses <$5,000			
						CHECK	136221	TOTAL:	16,700.00
136222	06/09/2021	PRTD	1865	SALT RIVER EXTRACTION LLC	31330	05/26/2021	22100065	060921ap	2,038.30
Invoice: 31330						SLUDGE TRANSPORT TO LANDFILL			
				2,038.30	40003216 520585	Treatment Plant O&M			
						CHECK	136222	TOTAL:	2,038.30
136223	06/09/2021	PRTD	1869	SAN TAN FORD	202703	05/27/2021	22101314	060921ap	37,187.38
Invoice: 202703						TRUCKS (INCLUDING, DIESEL, GASOLINE, ELECTRIC, HYB			
				37,187.38	40003210 541210	Automobiles			
						CHECK	136223	TOTAL:	37,187.38
136224	06/09/2021	PRTD	1858	SHI INTERNATIONAL CORP	B13582506	06/07/2021	22101224	060921ap	53,838.82
Invoice: B13582506						VXRAIL MAINTENANCE RENEWAL			
				53,838.82	10001189 520525	Hardware Maintenance			
						CHECK	136224	TOTAL:	53,838.82
136225	06/09/2021	PRTD	5324	SHUMS CODA ASSOCIATES	6323	05/17/2021	22100004	060921ap	20,450.00
Invoice: 6323						OPEN PO FOR CONSULTING SERVICE			
				20,450.00	10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6324	05/11/2021	22100004	060921ap	225.00
Invoice: 6324						OPEN PO FOR CONSULTING SERVICE			
				225.00	10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6325	05/11/2021	22100004	060921ap	3,285.00

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
Invoice: 6325						OPEN PO FOR CONSULTING SERVICE			
					3,285.00 10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6326	05/11/2021	22100004	060921ap	11,310.00
Invoice: 6326						OPEN PO FOR CONSULTING SERVICE			
					11,310.00 10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6327	05/11/2021	22100004	060921ap	12,232.50
Invoice: 6327						OPEN PO FOR CONSULTING SERVICE			
					12,232.50 10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6328	05/11/2021	22100004	060921ap	13,615.00
Invoice: 6328						OPEN PO FOR CONSULTING SERVICE			
					13,615.00 10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6329	05/11/2021	22100004	060921ap	18,100.00
Invoice: 6329						OPEN PO FOR CONSULTING SERVICE			
					18,100.00 10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6330R	05/25/2021	22100004	060921ap	88,491.87
Invoice: 6330R						OPEN PO FOR CONSULTING SERVICE			
					88,491.87 10005180 520056	Inspection Services			
								CHECK 136225 TOTAL:	167,709.37
136226	06/09/2021	PRTD	3089	SOMERSET LANDSCAPE LLC	PHXW 227123	05/31/2021	22100307	060921ap	6,020.79
Invoice: PHXW 227123						LANDSCAPE SERVICES FOR PRODUCT			
					610.15 40003212 520035	Landscaping			
					1,214.94 40003213 520035	Landscaping			
					637.39 40003214 520035	Landscaping			
					575.22 40003215 520035	Landscaping			
					984.01 40003216 520035	Landscaping			
					197.29 40003217 520035	Landscaping			
					1,801.79 40003218 520035	Landscaping			
				SOMERSET LANDSCAPE LLC	PHXW 216093	05/01/2021	22101099	060921ap	1,420.00
Invoice: PHXW 216093						Weed Control Service at Cemetery			
					1,420.00 50012140 520035	Landscaping Service			
								CHECK 136226 TOTAL:	7,440.79
136227	06/09/2021	PRTD	6161	SOUTHERN TIRE MART, LLC	6100033399	06/03/2021	22100395	060921ap	251.61
Invoice: 6100033399						TIRES AND TUBES (INCL. RECAPPE			
					251.61 10003171 521528	Tires			
				SOUTHERN TIRE MART, LLC	6100033402	06/03/2021	22100395	060921ap	282.06
Invoice: 6100033402						TIRES AND TUBES (INCL. RECAPPE			
					141.03 40003210 521508	Automotive Expenses			
					141.03 40013220 521508	Automotive Expenses			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136227 TOTAL:	533.67
136228	06/09/2021	PRTD	1944	STANDARD PRINTING COMPANY INC	263227	05/17/2021	22100185	060921ap	795.74
	Invoice: 263227					PRINT AND MAIL SERVICES FOR UT			
					254.64 40003230 520037	Professional Services General			
					254.64 40013230 520037	Professional Services General			
					179.78 40053205 523021	Public Education			
					106.68 40053230 520037	Professional Services General			
							CHECK	136228 TOTAL:	795.74
136229	06/09/2021	PRTD	1995	THE ARIZONA REPUBLIC	3897163	06/07/2021	22100050	060921ap	727.48
	Invoice: 3897163					Open PO AZ Republic for FY 20-			
					727.48 10001102 523055	Legal Printing and Advertising			
							CHECK	136229 TOTAL:	727.48
136230	06/09/2021	PRTD	6505	THE CONCENTRIUM LLC	210301	06/02/2021	22101011	060921ap	3,563.95
	Invoice: 210301					Summer Quarterly Brochure Design			
					3,563.95 10004150 523056	Copying/Printing/Binding			
							CHECK	136230 TOTAL:	3,563.95
136231	06/09/2021	PRTD	1884	THE SEGAL COMPANY	411939	05/28/2021	22101207	060921ap	28,000.00
	Invoice: 411939					Open PO for Comp. & Class study			
					28,000.00 10001115 520037	Professional Services General			
				THE SEGAL COMPANY	411047	05/31/2021	22100148	060921ap	2,333.37
	Invoice: 411047					Benefit Consulting FY 20/21			
					2,333.37 10001115 520037	Professional Services General			
							CHECK	136231 TOTAL:	30,333.37
136232	06/09/2021	PRTD	6403	UNION PACIFIC RAILROAD COMPANY	313115790	05/01/2021		060921ap	2,450.68
	Invoice: 313115790					Rent 6/1/21-8/31/21			
					2,450.68 40003210 520051	Building Lease			
							CHECK	136232 TOTAL:	2,450.68
136233	06/09/2021	PRTD	2038	UNITED FIRE EQUIPMENT	20210602	06/02/2021	22100204	060921ap	1,792.14
	Invoice: 20210602					Dress Uniforms			
					1,792.14 10002140 521922	Uniforms			
				UNITED FIRE EQUIPMENT	743493	05/28/2021	22101020	060921ap	16,885.22
	Invoice: 743493					FIRE PROTECTION EQUIPMENT AND SUPPLIES			
					16,885.22 10002140 521520	Small Tools<$5,000			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
								CHECK 136233 TOTAL:	18,677.36
136234	06/09/2021	PRTD	6613	VALLYWIDE GENERATOR SERVICE	11289	05/07/2021	22100718	060921ap	2,882.68
Invoice: 11289				2,882.68 40013223 520515	ANNUAL GENERATOR INSPECTIONS W Generator R & M				
				VALLYWIDE GENERATOR SERVICE	11290	05/07/2021	22100718	060921ap	1,024.08
Invoice: 11290				1,024.08 40013222 520515	ANNUAL GENERATOR INSPECTIONS W Generator R & M				
				VALLYWIDE GENERATOR SERVICE	11291	05/07/2021	22100718	060921ap	1,190.00
Invoice: 11291				1,190.00 40013222 520515	ANNUAL GENERATOR INSPECTIONS W Generator R & M				
				VALLYWIDE GENERATOR SERVICE	11292	05/07/2021	22100718	060921ap	2,387.04
Invoice: 11292				2,387.04 40013222 520515	ANNUAL GENERATOR INSPECTIONS W Generator R & M				
				VALLYWIDE GENERATOR SERVICE	11293	05/07/2021	22100718	060921ap	1,583.57
Invoice: 11293				1,583.57 40013222 520515	ANNUAL GENERATOR INSPECTIONS W Generator R & M				
				VALLYWIDE GENERATOR SERVICE	11294	05/07/2021	22100718	060921ap	1,583.57
Invoice: 11294				1,215.31 40013222 520515	ANNUAL GENERATOR INSPECTIONS W Generator R & M				
				368.26 40013223 520515	Generator R & M				
				VALLYWIDE GENERATOR SERVICE	11296	05/07/2021	22100718	060921ap	2,190.00
Invoice: 11296				2,190.00 40013221 520515	ANNUAL GENERATOR INSPECTIONS W Generator R & M				
								CHECK 136234 TOTAL:	12,840.94
136235	06/09/2021	PRTD	2061	VERN LEWIS WELDING SUPPLY INC	RI21050195	05/30/2021	22100206	060921ap	108.52
Invoice: RI21050195				108.52 10002140 522153	Medical Oxygen and Rental Medical Supplies				
				VERN LEWIS WELDING SUPPLY INC	RI21050196	05/30/2021	22100206	060921ap	44.06
Invoice: RI21050196				44.06 10002140 522153	Medical Oxygen and Rental Medical Supplies				
								CHECK 136235 TOTAL:	152.58
136236	06/09/2021	PRTD	2071	W.W. GRAINGER, INC	9915933221	05/27/2021	22100738	060921ap	510.28
Invoice: 9915933221				510.28 40013231 521512	WASTEWATER MAINTENANCE Parts/Materials				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136236 TOTAL:	510.28
136237	06/09/2021	PRTD	2077	OFFENDER WATCH	50324	06/07/2021	22100154	060921ap	135.85
Invoice: 50324					Open PO - Sex Offender Notific				
					135.85 10002121 526121 On-line Subscriptions				
							CHECK	136237 TOTAL:	135.85

NUMBER OF CHECKS 80 *** CASH ACCOUNT TOTAL *** 1,278,605.84

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	80	1,278,605.84

*** GRAND TOTAL *** 1,278,605.84

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021 12 376									
APP 1000-201000					Accounts Payable			421,858.63	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				1,278,605.84
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 4000-201000					Accounts Payable			747,374.97	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 4001-201000					Accounts Payable			46,052.81	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 3052-201000					Accounts Payable			718.80	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 3575-201000					Accounts Payable			1,908.27	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 4003-201000					Accounts Payable			6,893.00	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 3810-201000					Accounts Payable			676.62	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 4005-201000					Accounts Payable			695.14	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 5021-201000					Accounts Payable			20,660.25	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 3573-201000					Accounts Payable			13,319.00	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 5001-201000					Accounts Payable			1,583.95	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 3577-201000					Accounts Payable			164.40	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
APP 3100-201000					Accounts Payable			16,700.00	
06/09/2021	060921ap	ap0609			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			1,278,605.84	1,278,605.84
APP 9999-201010					DT DF			1,278,605.84	
06/09/2021	060921ap	ap0609							
APP 1000-101010					Pooled Cash Equity				421,858.63
06/09/2021	060921ap	ap0609							
APP 4000-101010					Pooled Cash Equity				747,374.97
06/09/2021	060921ap	ap0609							
APP 4001-101010					Pooled Cash Equity				46,052.81
06/09/2021	060921ap	ap0609							
APP 3052-101010					Pooled Cash Equity				718.80
06/09/2021	060921ap	ap0609							
APP 3575-101010					Pooled Cash Equity				1,908.27
06/09/2021	060921ap	ap0609							
APP 4003-101010					Pooled Cash Equity				6,893.00
06/09/2021	060921ap	ap0609							
APP 3810-101010					Pooled Cash Equity				676.62

JOURNAL ENTRIES TO BE CREATED

YEAR PER JNL SRC ACCOUNT	EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
	06/09/2021	060921ap	ap0609							
APP 4005-101010	06/09/2021	060921ap	ap0609			Pooled Cash Equity				695.14
APP 5021-101010	06/09/2021	060921ap	ap0609			Pooled Cash Equity				20,660.25
APP 3573-101010	06/09/2021	060921ap	ap0609			Pooled Cash Equity				13,319.00
APP 5001-101010	06/09/2021	060921ap	ap0609			Pooled Cash Equity				1,583.95
APP 3577-101010	06/09/2021	060921ap	ap0609			Pooled Cash Equity				164.40
APP 3100-101010	06/09/2021	060921ap	ap0609			Pooled Cash Equity				16,700.00
						SYSTEM GENERATED ENTRIES TOTAL			1,278,605.84	1,278,605.84
						JOURNAL 2021/12/376 TOTAL			2,557,211.68	2,557,211.68

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2021 12	376	06/09/2021			
1000-101010			Pooled Cash Equity			421,858.63
1000-201000			Accounts Payable		421,858.63	
				FUND TOTAL	421,858.63	421,858.63
3052 Impound Fund	2021 12	376	06/09/2021			
3052-101010			Pooled Cash Equity			718.80
3052-201000			Accounts Payable		718.80	
				FUND TOTAL	718.80	718.80
3100 Risk Mgmt Retention Fund	2021 12	376	06/09/2021			
3100-101010			Pooled Cash Equity			16,700.00
3100-201000			Accounts Payable		16,700.00	
				FUND TOTAL	16,700.00	16,700.00
3573 Police Department Grants	2021 12	376	06/09/2021			
3573-101010			Pooled Cash Equity			13,319.00
3573-201000			Accounts Payable		13,319.00	
				FUND TOTAL	13,319.00	13,319.00
3575 Area Agency on Aging	2021 12	376	06/09/2021			
3575-101010			Pooled Cash Equity			1,908.27
3575-201000			Accounts Payable		1,908.27	
				FUND TOTAL	1,908.27	1,908.27
3577 Nuclear Emergency Management	2021 12	376	06/09/2021			
3577-101010			Pooled Cash Equity			164.40
3577-201000			Accounts Payable		164.40	
				FUND TOTAL	164.40	164.40
3810 Highway User Revenue Fund	2021 12	376	06/09/2021			
3810-101010			Pooled Cash Equity			676.62
3810-201000			Accounts Payable		676.62	
				FUND TOTAL	676.62	676.62
4000 Water Utility Fund	2021 12	376	06/09/2021			
4000-101010			Pooled Cash Equity			747,374.97
4000-201000			Accounts Payable		747,374.97	
				FUND TOTAL	747,374.97	747,374.97
4001 Wastewater Fund	2021 12	376	06/09/2021			

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
4001-101010			Pooled Cash Equity			46,052.81
4001-201000			Accounts Payable		46,052.81	
				FUND TOTAL	46,052.81	46,052.81
4003 Water Repair & Replacement Fee	2021 12	376	06/09/2021			
4003-101010			Pooled Cash Equity			6,893.00
4003-201000			Accounts Payable		6,893.00	
				FUND TOTAL	6,893.00	6,893.00
4005 Environmental Services	2021 12	376	06/09/2021			
4005-101010			Pooled Cash Equity			695.14
4005-201000			Accounts Payable		695.14	
				FUND TOTAL	695.14	695.14
5001 Cemetery Improvement Fund	2021 12	376	06/09/2021			
5001-101010			Pooled Cash Equity			1,583.95
5001-201000			Accounts Payable		1,583.95	
				FUND TOTAL	1,583.95	1,583.95
5021 CIP General	2021 12	376	06/09/2021			
5021-101010			Pooled Cash Equity			20,660.25
5021-201000			Accounts Payable		20,660.25	
				FUND TOTAL	20,660.25	20,660.25
9999 Pooled Cash	2021 12	376	06/09/2021			
9999-104000			Cash in Bank - Checking			1,278,605.84
9999-201010			DT DF		1,278,605.84	
				FUND TOTAL	1,278,605.84	1,278,605.84

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
1000	General Fund		421,858.63
3052	Impound Fund		718.80
3100	Risk Mgmt Retention Fund		16,700.00
3573	Police Department Grants		13,319.00
3575	Area Agency on Aging		1,908.27
3577	Nuclear Emergency Management		164.40
3810	Highway User Revenue Fund		676.62
4000	Water Utility Fund		747,374.97
4001	Wastewater Fund		46,052.81
4003	Water Repair & Replacement Fee		6,893.00
4005	Environmental Services		695.14
5001	Cemetery Improvement Fund		1,583.95
5021	CIP General		20,660.25
9999	Pooled Cash	1,278,605.84	
	TOTAL	1,278,605.84	1,278,605.84

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136247	06/15/2021	PRTD	5566	ACRO SERVICE CORPORATION	1331989	05/30/2021	22100256	061521ap	2,036.80
Invoice: 1331989						ENGINEERING SERVICES, PROFESSI			
					2,036.80 10005185 520037	Professional Services General			
						CHECK	136247 TOTAL:		2,036.80
136248	06/15/2021	PRTD	6338	AMF BOWLING CENTERS, INC.	864-2698 6/09/21	06/09/2021	22101306	061521ap	539.96
Invoice: 864-2698 6/09/21						Summer 2021 program field trips			
					539.96 10004153 520015	Contractual Svc BASE			
						CHECK	136248 TOTAL:		539.96
136249	06/15/2021	PRTD	1183	AZTEC ENGINEERING GROUP, INC.	201602	04/21/2021	22101361	061521ap	9,618.00
Invoice: 201602						AZTEC 1-10 Channel - Perryville Rd Basin DCR			
					9,618.00 10005185 520037	Professional Services General			
				AZTEC ENGINEERING GROUP, INC.	201601	03/19/2021	22101361	061521ap	12,315.00
Invoice: 201601						AZTEC 1-10 Channel - Perryville Rd Basin DCR			
					12,315.00 10005185 520037	Professional Services General			
						CHECK	136249 TOTAL:		21,933.00
136250	06/15/2021	PRTD	1414	EWING IRRIGATION PRODUCTS INC	7117338	06/07/2021	22100082	061521ap	118.94
Invoice: 7117338						OPEN PO - Parks irrigation			
					118.94 10004155 520586	Irrigation Systems Parts/Mater			
						CHECK	136250 TOTAL:		118.94
136251	06/15/2021	PRTD	6880	FPA, LTD.	2305	06/08/2021		061521ap	11,300.00
Invoice: 2305						Fireworks Display - Deposit			
					11,300.00 30584160 521502	Program Supplies/Equipment			
						CHECK	136251 TOTAL:		11,300.00
136252	06/15/2021	PRTD	1605	LAYER 8, LLC	1616	05/01/2021	22101208	061521ap	9,000.00
Invoice: 1616						Task Order #45 - Water Production Security			
					9,000.00 40001113 543139	Access Control Wtr Prod Well			
				LAYER 8, LLC	1617	05/01/2021	22101230	061521ap	19,800.00
Invoice: 1617						Task Order #48 - Waste Water Security			
					19,800.00 40011113 543138	Access Control Wastewater Plnt			
				LAYER 8, LLC	1619	05/01/2021	22100391	061521ap	25,000.00
Invoice: 1619						TASK ORDER #34 - CISCO ADVANCE			
					25,000.00 10001189 520018	General Contractual Services			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136252 TOTAL:	53,800.00
136253	06/15/2021	PRTD	1686	MUNICIPAL CODE CORPORATION	00359844	06/09/2021	22100013	061521ap	475.00
	Invoice: 00359844					Open PO for Municode FY 20-21			
					475.00 10001102 523055	Legal Printing and Advertising			
							CHECK	136253 TOTAL:	475.00
136254	06/15/2021	PRTD	999991	LJCAA	J. Tse 2021	06/03/2021		061521ap	25.00
	Invoice: J. Tse 2021					Membership dues for Johnny Tse			
					25.00 10002120 526120	Dues and Memberships			
							CHECK	136254 TOTAL:	25.00
136255	06/15/2021	PRTD	999992	BEKA Holdings	44683	06/01/2021		061521ap	3,200.00
	Invoice: 44683					Automobile transport DRMO			
					3,200.00 10002121 521508	Automotive Expenses			
							CHECK	136255 TOTAL:	3,200.00
136256	06/15/2021	PRTD	999996	AFRICA COTA/ARGENT SOLAR	ELECR-21-0725	06/10/2021		061521ap	150.00
	Invoice: ELECR-21-0725					PAID FOR PERMIT IN ERROR			
					150.00 10005180 431600	Vertical Construction			
							CHECK	136256 TOTAL:	150.00
136257	06/15/2021	PRTD	5646	REGIONAL PUBLIC TRANSPORTATION AU	20859	03/23/2021		061521ap	443.30
	Invoice: 20859					Park & Ride Design Costs			
					443.30 50213170 543118	Park N Ride Expansion			
							CHECK	136257 TOTAL:	443.30
136258	06/15/2021	PRTD	1896	SHAMROCK FOODS COMPANY	101167959	06/08/2021	22100039	061521ap	60.66
	Invoice: 101167959					OPEN PO- Milk for senior meal			
					60.66 35754150 521502	Program Supplies/Equipment			
							CHECK	136258 TOTAL:	60.66
136259	06/15/2021	PRTD	2035	UNIFIRST CORPORATION	3152393128	05/26/2021	22100040	061521ap	9.47
	Invoice: 3152393128					OPEN PO- Kitchen towels & apro			
					9.47 35754150 523017	Space			
				UNIFIRST CORPORATION	3152398830	06/09/2021	22100040	061521ap	10.15
	Invoice: 3152398830					OPEN PO- Kitchen towels & apro			
					10.15 35754150 523017	Space			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
							CHECK	136259 TOTAL:	19.62
136260	06/15/2021	PRTD	6340	WILSON ENGINEERS	7168	05/24/2021	22100909	061521ap	5,095.50
Invoice: 7168						Engineering Specialty Review			
				5,095.50	10005185 520006	Engineering Services			
							CHECK	136260 TOTAL:	5,095.50
					NUMBER OF CHECKS 14		*** CASH ACCOUNT TOTAL ***		99,197.78

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	14	99,197.78

*** GRAND TOTAL *** 99,197.78

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021 12 615									
APP 1000-201000					Accounts Payable			58,574.20	
06/15/2021	061521ap	ap0615			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				99,197.78
06/15/2021	061521ap	ap0615			AP CASH DISBURSEMENTS JOURNAL				
APP 3058-201000					Accounts Payable			11,300.00	
06/15/2021	061521ap	ap0615			AP CASH DISBURSEMENTS JOURNAL				
APP 4000-201000					Accounts Payable			9,000.00	
06/15/2021	061521ap	ap0615			AP CASH DISBURSEMENTS JOURNAL				
APP 4001-201000					Accounts Payable			19,800.00	
06/15/2021	061521ap	ap0615			AP CASH DISBURSEMENTS JOURNAL				
APP 5021-201000					Accounts Payable			443.30	
06/15/2021	061521ap	ap0615			AP CASH DISBURSEMENTS JOURNAL				
APP 3575-201000					Accounts Payable			80.28	
06/15/2021	061521ap	ap0615			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			99,197.78	99,197.78
APP 9999-201010					DT DF			99,197.78	
06/15/2021	061521ap	ap0615							
APP 1000-101010					Pooled Cash Equity				58,574.20
06/15/2021	061521ap	ap0615							
APP 3058-101010					Pooled Cash Equity				11,300.00
06/15/2021	061521ap	ap0615							
APP 4000-101010					Pooled Cash Equity				9,000.00
06/15/2021	061521ap	ap0615							
APP 4001-101010					Pooled Cash Equity				19,800.00
06/15/2021	061521ap	ap0615							
APP 5021-101010					Pooled Cash Equity				443.30
06/15/2021	061521ap	ap0615							
APP 3575-101010					Pooled Cash Equity				80.28
06/15/2021	061521ap	ap0615							
					SYSTEM GENERATED ENTRIES TOTAL			99,197.78	99,197.78
					JOURNAL 2021/12/615 TOTAL			198,395.56	198,395.56

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2021 12	615	06/15/2021			
1000-101010			Pooled Cash Equity			58,574.20
1000-201000			Accounts Payable		58,574.20	
				FUND TOTAL	58,574.20	58,574.20
3058 Comm Services Programs	2021 12	615	06/15/2021			
3058-101010			Pooled Cash Equity			11,300.00
3058-201000			Accounts Payable		11,300.00	
				FUND TOTAL	11,300.00	11,300.00
3575 Area Agency on Aging	2021 12	615	06/15/2021			
3575-101010			Pooled Cash Equity			80.28
3575-201000			Accounts Payable		80.28	
				FUND TOTAL	80.28	80.28
4000 Water Utility Fund	2021 12	615	06/15/2021			
4000-101010			Pooled Cash Equity			9,000.00
4000-201000			Accounts Payable		9,000.00	
				FUND TOTAL	9,000.00	9,000.00
4001 Wastewater Fund	2021 12	615	06/15/2021			
4001-101010			Pooled Cash Equity			19,800.00
4001-201000			Accounts Payable		19,800.00	
				FUND TOTAL	19,800.00	19,800.00
5021 CIP General	2021 12	615	06/15/2021			
5021-101010			Pooled Cash Equity			443.30
5021-201000			Accounts Payable		443.30	
				FUND TOTAL	443.30	443.30
9999 Pooled Cash	2021 12	615	06/15/2021			
9999-104000			Cash in Bank - Checking			99,197.78
9999-201010			DT DF		99,197.78	
				FUND TOTAL	99,197.78	99,197.78

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
1000	General Fund		58,574.20
3058	Comm Services Programs		11,300.00
3575	Area Agency on Aging		80.28
4000	Water Utility Fund		9,000.00
4001	Wastewater Fund		19,800.00
5021	CIP General		443.30
9999	Pooled Cash	99,197.78	
	TOTAL	99,197.78	99,197.78

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136261	06/16/2021	PRTD	6865	2TEN DEMOLITION & CONSTRUCTION LL	21-13	06/02/2021	22101240	061621ap	1,950.00
	Invoice: 21-13					AIRPORT DEMOLITION			
					1,950.00 10003172 520018	General Contractual Services			
						CHECK	136261 TOTAL:		1,950.00
136262	06/16/2021	PRTD	5706	AARDVARK	PIN12555	06/09/2021	22101336	061621ap	10,855.00
	Invoice: PIN12555					LRAD Control Device			
					10,855.00 10002121 541070	Other Equipment >$5,000			
						CHECK	136262 TOTAL:		10,855.00
136263	06/16/2021	PRTD	5566	ACRO SERVICE CORPORATION	1332050	05/30/2021	22100055	061621ap	743.20
	Invoice: 1332050					Temporary Labor for Water Admi			
					371.60 40003210 520037	Professional Services General			
					371.60 40013220 520037	Professional Services General			
				ACRO SERVICE CORPORATION	1339334	06/06/2021	22100055	061621ap	557.40
	Invoice: 1339334					Temporary Labor for Water Admi			
					278.70 40003210 520037	Professional Services General			
					278.70 40013220 520037	Professional Services General			
						CHECK	136263 TOTAL:		1,300.60
136264	06/16/2021	PRTD	5019	ARIZONA GENERATOR TECHNOLOGY, INC	22186-1	06/03/2021	22100364	061621ap	729.21
	Invoice: 22186-1					Generators, Stationary Type			
					729.21 10003171 520515	Generator R & M			
						CHECK	136264 TOTAL:		729.21
136265	06/16/2021	PRTD	1960	ARIZONA MACHINERY, LLC	P50619	05/28/2021	22100366	061621ap	63.06
	Invoice: P50619					AUTOMOTIVE AND TRAILER EQUIPME			
					63.06 38103202 521508	Automotive Expenses			
						CHECK	136265 TOTAL:		63.06
136266	06/16/2021	PRTD	5686	ARIZONA PPE RECON, INC.	2780	06/04/2021	22100275	061621ap	1,613.39
	Invoice: 2780					PPE Cleaning and Repair			
					1,613.39 10002140 520518	Equip Testing & Certification			
						CHECK	136266 TOTAL:		1,613.39
136267	06/16/2021	PRTD	1158	AZ DEPT OF ENVIRONMENTAL QUALITY	0000344551X	06/01/2021		061621ap	6,000.00
	Invoice: 0000344551X					Festival Ranch WRF APP Annual Registration Fee			
					6,000.00 40013220 520045	Permit Fees			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
								CHECK 136267 TOTAL:	6,000.00
136268	06/16/2021	PRTD	1193	BAKER & TAYLOR	2035949177	05/25/2021	22100876	061621ap	108.70
	Invoice: 2035949177				108.70 10004151 521550	Open PO for Library Materials Library Materials			
				BAKER & TAYLOR	2035949178	05/25/2021	22100876	061621ap	29.84
	Invoice: 2035949178				29.84 10004151 521550	Open PO for Library Materials Library Materials			
				BAKER & TAYLOR	2035949179	05/25/2021	22100876	061621ap	34.03
	Invoice: 2035949179				34.03 10004151 521550	Open PO for Library Materials Library Materials			
				BAKER & TAYLOR	2035949180	05/25/2021	22100876	061621ap	247.70
	Invoice: 2035949180				247.70 10004151 521550	Open PO for Library Materials Library Materials			
				BAKER & TAYLOR	2035949182	05/25/2021	22100876	061621ap	54.12
	Invoice: 2035949182				54.12 10004151 521550	Open PO for Library Materials Library Materials			
				BAKER & TAYLOR	2035949184	05/25/2021	22100876	061621ap	18.12
	Invoice: 2035949184				18.12 10004151 521550	Open PO for Library Materials Library Materials			
				BAKER & TAYLOR	2035949185	05/25/2021	22100876	061621ap	102.20
	Invoice: 2035949185				102.20 10004151 521550	Open PO for Library Materials Library Materials			
				BAKER & TAYLOR	2035949186	05/25/2021	22100876	061621ap	288.88
	Invoice: 2035949186				288.88 10004151 521550	Open PO for Library Materials Library Materials			
				BAKER & TAYLOR	2035949187	05/25/2021	22100876	061621ap	13.79
	Invoice: 2035949187				13.79 10004151 521550	Open PO for Library Materials Library Materials			
				BAKER & TAYLOR	2035949188	05/25/2021	22100876	061621ap	127.54
	Invoice: 2035949188				127.54 10004151 521550	Open PO for Library Materials Library Materials			
				BAKER & TAYLOR	2035949189	05/25/2021	22100876	061621ap	57.30
	Invoice: 2035949189				57.30 10004151 521550	Open PO for Library Materials Library Materials			
				BAKER & TAYLOR	2035949190	05/25/2021	22100876	061621ap	27.58
	Invoice: 2035949190				27.58 10004151 521550	Open PO for Library Materials Library Materials			
				BAKER & TAYLOR	H54967160	05/28/2021	22100876	061621ap	38.22

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC			
Invoice: H54967160					Open PO for Library Materials			
				38.22 10004151 521550	Library Materials			
			BAKER & TAYLOR	H54969380	05/28/2021	22100876	061621ap	89.56
Invoice: H54969380					Open PO for Library Materials			
				89.56 10004151 521550	Library Materials			
			BAKER & TAYLOR	H54978660	05/28/2021	22100876	061621ap	79.36
Invoice: H54978660					Open PO for Library Materials			
				79.36 10004151 521550	Library Materials			
			BAKER & TAYLOR	2035971554	06/01/2021	22100876	061621ap	32.24
Invoice: 2035971554					Open PO for Library Materials			
				32.24 10004151 521550	Library Materials			
			BAKER & TAYLOR	2035971555	06/01/2021	22100876	061621ap	165.36
Invoice: 2035971555					Open PO for Library Materials			
				165.36 10004151 521550	Library Materials			
			BAKER & TAYLOR	2035971556	06/01/2021	22100876	061621ap	65.06
Invoice: 2035971556					Open PO for Library Materials			
				65.06 10004151 521550	Library Materials			
			BAKER & TAYLOR	2035971557	06/01/2021	22100876	061621ap	42.46
Invoice: 2035971557					Open PO for Library Materials			
				42.46 10004151 521550	Library Materials			
			BAKER & TAYLOR	2035971560	06/01/2021	22100876	061621ap	24.02
Invoice: 2035971560					Open PO for Library Materials			
				24.02 10004151 521550	Library Materials			
			BAKER & TAYLOR	2035971561	06/01/2021	22100876	061621ap	34.94
Invoice: 2035971561					Open PO for Library Materials			
				34.94 10004151 521550	Library Materials			
			BAKER & TAYLOR	2035971562	06/01/2021	22100876	061621ap	58.66
Invoice: 2035971562					Open PO for Library Materials			
				58.66 10004151 521550	Library Materials			
			BAKER & TAYLOR	2035971563	06/01/2021	22100876	061621ap	43.54
Invoice: 2035971563					Open PO for Library Materials			
				43.54 10004151 521550	Library Materials			
			BAKER & TAYLOR	H55069680	06/02/2021	22100876	061621ap	308.58
Invoice: H55069680					Open PO for Library Materials			
				308.58 10004151 521550	Library Materials			
			BAKER & TAYLOR	H55394110	06/07/2021	22100876	061621ap	83.74
Invoice: H55394110					Open PO for Library Materials			
				83.74 10004151 521550	Library Materials			
			BAKER & TAYLOR	2036014903	06/08/2021	22100876	061621ap	31.06

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
Invoice: 2036014903						Open PO for Library Materials			
					31.06 10004151 521550	Library Materials			
				BAKER & TAYLOR	2036014904	06/08/2021	22100876	061621ap	29.92
Invoice: 2036014904						Open PO for Library Materials			
					29.92 10004151 521550	Library Materials			
								CHECK 136268 TOTAL:	2,236.52
136269	06/16/2021	PRTD	1195	BALAR EQUIPMENT	1120235-3	06/09/2021	22100804	061621ap	8,351.34
Invoice: 1120235-3						ROAD AND HIGHWAY EQUIPMENT (EXCEPT EQUIPMENT IN CL			
					8,351.34 38103202 541240	Other Vehicles			
				BALAR EQUIPMENT	1120235-2	06/09/2021	22100802	061621ap	226,238.05
Invoice: 1120235-2						EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR AGRI			
					226,238.05 38103202 541240	Other Vehicles			
								CHECK 136269 TOTAL:	234,589.39
136270	06/16/2021	PRTD	1185	B&B ENTERPRISES	22654	06/10/2021	22100995	061621ap	29,746.62
Invoice: 22654						AUTOMOTIVE AND TRAILER BODIES, BODY ACCESSORIES, A			
					13,729.21 10002121 541210	Automobiles			
					16,017.41 10003173 541210	Automobiles			
								CHECK 136270 TOTAL:	29,746.62
136271	06/16/2021	PRTD	5670	BEARING BELT & CHAIN, INC	1611246	06/08/2021	22100233	061621ap	617.22
Invoice: 1611246						BEARING BELT & CHAIN PURCHASE			
					617.22 40013222 520543	WW R&M			
								CHECK 136271 TOTAL:	617.22
136272	06/16/2021	PRTD	1213	BINGHAM EQUIPMENT CO	P65998	05/04/2021	22100193	061621ap	314.38
Invoice: P65998						Small Tool/Equipment Maintenan			
					314.38 10002140 520525	Hardware Maintenance			
								CHECK 136272 TOTAL:	314.38
136273	06/16/2021	PRTD	6624	FRESH AIRE	05-20926	06/08/2021	22101089	061621ap	40.50
Invoice: 05-20926						Open PO for Air Freshener at Downtown Library			
					40.50 10004151 521501	Office Supplies			
								CHECK 136273 TOTAL:	40.50

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136274	06/16/2021	PRTD	1234	BROWN'S PARTSMASTER INC	127118	06/03/2021	22100127	061621ap	51.60
Invoice: 127118					FY 20/21 - CITYWIDE PLUMBING S				
				51.60 10003172 521720	Shop Supplies				
							CHECK	136274 TOTAL:	51.60
136275	06/16/2021	PRTD	1257	BUSTAMANTE & KUFFNER PC	April 30, 2021	04/30/2021	22100209	061621ap	13,000.00
Invoice: April 30, 2021					Legal Services - Open PO FY 21				
				13,000.00 10001110 520021	City Prosecuter				
				BUSTAMANTE & KUFFNER PC	May 31, 2021	05/31/2021	22100209	061621ap	13,000.00
Invoice: May 31, 2021					Legal Services - Open PO FY 21				
				13,000.00 10001110 520021	City Prosecuter				
							CHECK	136275 TOTAL:	26,000.00
136276	06/16/2021	PRTD	1263	C & I SHOW HARDWARE & SECURITY SY	140141	06/04/2021	22101352	061621ap	2,396.58
Invoice: 140141					60 Cores and 1 key for Water Sites				
				1,198.29 40001113 543139	Access Control Wtr Prod Well				
				1,198.29 40011113 543138	Access Control Wastewater Plnt				
							CHECK	136276 TOTAL:	2,396.58
136277	06/16/2021	PRTD	1138	SIONICS WEAPON SYSTEMS	221220-R-II	05/18/2021	22100839	061621ap	3,695.69
Invoice: 221220-R-II					Patrol Rifles				
				3,695.69 10002121 521509	Public Safety Equipment				
							CHECK	136277 TOTAL:	3,695.69
136278	06/16/2021	PRTD	5029	CDW GOVERNMENT LLC	F422651	06/10/2021	22101189	061621ap	1,639.65
Invoice: F422651					SURFACE PRO FOR JUDGE BURKHOLDER				
				1,639.65 10002120 521521	IT Equipment <$5000				
							CHECK	136278 TOTAL:	1,639.65
136279	06/16/2021	PRTD	1299	CINTAS CORPORATION NO.2 - LOC D53	0D53181939	05/31/2021	22101206	061621ap	452.00
Invoice: 0D53181939					FIRE SUPRESSION EQUIPMENT REPAIRS				
				452.00 40003216 520506	Repair and Replace				
							CHECK	136279 TOTAL:	452.00
136280	06/16/2021	PRTD	6250	CLARK ELECTRIC SALES, INC	IN2731	06/08/2021	22100243	061621ap	4,561.20
Invoice: IN2731					FY 20/21 - TRAFFIC SIGNAL MAIN				
				4,561.20 38103202 520602	Traffic Signal R&M				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136280 TOTAL:	4,561.20
136281	06/16/2021	PRTD	6754	CRISIS PREPARATION AND RECOVERY	59485	06/10/2021	22100614	061621ap	8,000.00
	Invoice: 59485					Open PO - Law Enforcement Psyc			
					8,000.00 10002121 520054	Employee Wellness			
							CHECK	136281 TOTAL:	8,000.00
136282	06/16/2021	PRTD	1343	CUMMINS ROCKY MOUNTAIN, LLC	54-74904	06/14/2021	22100290	061621ap	4,215.12
	Invoice: 54-74904					EQUIPMENT MAINTENANCE AND REPA			
					4,215.12 40003218 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-74211	06/09/2021	22100769	061621ap	800.24
	Invoice: 54-74211					EQUIPMENT MAINTENANCE AND REPA			
					800.24 40003218 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-71449	05/24/2021	22100769	061621ap	774.19
	Invoice: 54-71449					EQUIPMENT MAINTENANCE AND REPA			
					774.19 40003213 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-71448	05/24/2021	22100769	061621ap	774.19
	Invoice: 54-71448					EQUIPMENT MAINTENANCE AND REPA			
					774.19 40003213 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-72424	06/01/2021	22100769	061621ap	724.98
	Invoice: 54-72424					EQUIPMENT MAINTENANCE AND REPA			
					724.98 40003218 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-73253	06/04/2021	22100769	061621ap	704.93
	Invoice: 54-73253					EQUIPMENT MAINTENANCE AND REPA			
					704.93 40003212 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-72426	06/01/2021	22100769	061621ap	1,108.90
	Invoice: 54-72426					EQUIPMENT MAINTENANCE AND REPA			
					1,108.90 40003218 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-73261	06/04/2021	22100769	061621ap	902.05
	Invoice: 54-73261					EQUIPMENT MAINTENANCE AND REPA			
					902.05 40003215 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-74213	06/09/2021	22100769	061621ap	928.80
	Invoice: 54-74213					EQUIPMENT MAINTENANCE AND REPA			
					928.80 40003218 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-73268	06/04/2021	22100769	061621ap	797.60
	Invoice: 54-73268					EQUIPMENT MAINTENANCE AND REPA			
					797.60 40003219 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-73295	06/04/2021	22100769	061621ap	1,080.65
	Invoice: 54-73295					EQUIPMENT MAINTENANCE AND REPA			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
					1,080.65 40003214 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-74216	06/09/2021	22100769	061621ap	925.85
				Invoice: 54-74216		EQUIPMENT MAINTENANCE AND REPA			
					925.85 40003218 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-73761	06/08/2021	22100769	061621ap	926.05
				Invoice: 54-73761		EQUIPMENT MAINTENANCE AND REPA			
					926.05 40003218 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-73765	06/08/2021	22100769	061621ap	902.05
				Invoice: 54-73765		EQUIPMENT MAINTENANCE AND REPA			
					902.05 40003212 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-74218	06/09/2021	22100769	061621ap	798.63
				Invoice: 54-74218		EQUIPMENT MAINTENANCE AND REPA			
					798.63 40003218 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-74464	06/10/2021	22100769	061621ap	795.99
				Invoice: 54-74464		EQUIPMENT MAINTENANCE AND REPA			
					795.99 40003218 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-74624	06/11/2021	22100769	061621ap	962.79
				Invoice: 54-74624		EQUIPMENT MAINTENANCE AND REPA			
					962.79 40003213 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-74215	06/09/2021	22100769	061621ap	988.44
				Invoice: 54-74215		EQUIPMENT MAINTENANCE AND REPA			
					988.44 40003218 520515	Generator R & M			
								CHECK 136282 TOTAL:	19,111.45
136283	06/16/2021	PRTD	5015	F.S.O.C. LLC	1378	06/11/2021	22101134	061621ap	2,273.00
	Invoice: 1378					Patrol Uniform Helmets			
					2,273.00 10002121 521922	Uniforms			
								CHECK 136283 TOTAL:	2,273.00
136284	06/16/2021	PRTD	6864	DEARY BROS. INC	0510706-IN	05/28/2021	22101233	061621ap	350.00
	Invoice: 0510706-IN					SIC gymnastics equipment			
					350.00 10004160 521534	Program Supplies Gen Rec			
				DEARY BROS. INC	0510568-IN	05/26/2021	22101233	061621ap	3,110.00
	Invoice: 0510568-IN					SIC gymnastics equipment			
					3,110.00 10004160 521534	Program Supplies Gen Rec			
				DEARY BROS. INC	0509992-IN	05/18/2021	22101233	061621ap	238.80
	Invoice: 0509992-IN					SIC gymnastics equipment			
					238.80 10004160 521534	Program Supplies Gen Rec			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136284 TOTAL:	3,698.80
136285	06/16/2021	PRTD	1360	DENNIS L. LOPEZ	200840	02/16/2021	22101239	061621ap	2,400.00
Invoice: 200840						MILLER & BROADWAY APPRAISAL & EXPERT WITNESS PREP			
					2,400.00 50213170 543067	Miller & Broadway TS			
							CHECK	136285 TOTAL:	2,400.00
136286	06/16/2021	PRTD	1367	DIBBLE & ASSOCIATES CONSULTING EN	1018028.03-7	05/03/2021	22100703	061621ap	4,304.74
Invoice: 1018028.03-7						TO #2 REPLACE AIRPORT BEACON			
					4,304.74 40111113 543140	Airport Beacon			
							CHECK	136286 TOTAL:	4,304.74
136287	06/16/2021	PRTD	3032	ECD SYSTEMS LLC	16024	04/09/2021	22100138	061621ap	44.00
Invoice: 16024						FY 20/21 - CITYWIDE FIRE MONIT			
					44.00 10003172 526121	On-line Subscriptions			
				ECD SYSTEMS LLC	16023	04/09/2021	22100138	061621ap	44.00
Invoice: 16023						FY 20/21 - CITYWIDE FIRE MONIT			
					44.00 10003172 526121	On-line Subscriptions			
				ECD SYSTEMS LLC	16019	04/09/2021	22100138	061621ap	26.00
Invoice: 16019						FY 20/21 - CITYWIDE FIRE MONIT			
					26.00 10003172 526121	On-line Subscriptions			
							CHECK	136287 TOTAL:	114.00
136288	06/16/2021	PRTD	5011	ELM USA INC	40351	06/14/2021	22100003	061621ap	25.00
Invoice: 40351						Open PO for Disc Repair Servic			
					25.00 10004151 521501	Office Supplies			
							CHECK	136288 TOTAL:	25.00
136289	06/16/2021	PRTD	5158	ENVIRONMENTAL RESPONSE INC.	36751	06/08/2021	22101290	061621ap	1,412.50
Invoice: 36751						NORTH AIRPORT SULFURIC ACID TRANSFER			
					1,412.50 40003216 520585	Treatment Plant O&M			
							CHECK	136289 TOTAL:	1,412.50
136290	06/16/2021	PRTD	6784	HYDRO INTERNATIONAL WASTEWATER, I	SIN-002457	05/27/2021	22100772	061621ap	6,677.29
Invoice: SIN-002457						TEACUP GRIT UNIT REHAB/REPAIR			
					6,677.29 40013221 541070	Other Equipment >$5,000			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136290 TOTAL:	6,677.29
136291	06/16/2021	PRTD	1432	FERGUSON WATERWORKS #3083	0428902	05/28/2021	22101248	061621ap	21,782.93
	Invoice: 0428902					CONTRACTOR SERVICES			
					21,782.93 40003351 520575	Water Meters R & M			
				FERGUSON WATERWORKS #3083	0429800	06/09/2021	22100165	061621ap	808.51
	Invoice: 0429800					EQUIPMENT MAINTENANCE AND REPA			
					808.51 40003212 520577	Reservoir/Booster Maint/Repair			
							CHECK	136291 TOTAL:	22,591.44
136292	06/16/2021	PRTD	1440	FLEETPRIDE, INC	75393968	06/07/2021	22100288	061621ap	143.14
	Invoice: 75393968					AUTOMOTIVE / EQUIPMENT AND PAR			
					74.65 10003171 522155	Operational Supplies			
					68.49 40003210 521508	Automotive Expenses			
				FLEETPRIDE, INC	75620355	06/10/2021	22100288	061621ap	196.45
	Invoice: 75620355					AUTOMOTIVE / EQUIPMENT AND PAR			
					196.45 10003171 522155	Operational Supplies			
							CHECK	136292 TOTAL:	339.59
136293	06/16/2021	PRTD	6035	FORENSIC LOGIC, LLC	1356	06/05/2021	22101247	061621ap	11,235.00
	Invoice: 1356					Hardware Service Renewal			
					11,235.00 10002121 520525	Hardware Maintenance			
							CHECK	136293 TOTAL:	11,235.00
136294	06/16/2021	PRTD	3037	FORESITE DESIGN & CONSTRUCTION IN	22101078-3	06/08/2021	22101078	061621ap	120,999.35
	Invoice: 22101078-3					DO#2 Charman Bldg. TI			
					120,999.35 50211000 543082	Charman Bldg Space Plan			
							CHECK	136294 TOTAL:	120,999.35
136295	06/16/2021	PRTD	5939	FORTILINE, INC	5318439	05/27/2021	22100556	061621ap	540.50
	Invoice: 5318439					PARTS FOR INSTALLS AND MAINTEN			
					540.50 40003351 520575	Water Meters R & M			
				FORTILINE, INC	5216071	05/28/2021	22100333	061621ap	902.66
	Invoice: 5216071					SMALL TOOL PURCHASES FY 20/21			
					902.66 40003350 521520	Small Tools<$5,000			
				FORTILINE, INC	5265563	05/28/2021	22100467	061621ap	1,577.99
	Invoice: 5265563					MATERIALS TO REPAIR FIRE HYDRA			
					1,577.99 40003350 520574	Fire Hydrant Maint/Replacement			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
				FORTILINE, INC	5313535	05/27/2021	22100483	061621ap	9,867.44
	Invoice: 5313535					MATERIALS TO REPAIR WATER INFR			
					9,867.44 40003350 521514	Water Distrib System R&M			
				FORTILINE, INC	5312800	05/28/2021	22100483	061621ap	9,411.44
	Invoice: 5312800					MATERIALS TO REPAIR WATER INFR			
					9,411.44 40003350 521514	Water Distrib System R&M			
								CHECK 136295 TOTAL:	22,300.03
136296	06/16/2021	PRTD	1450	FOSTER ELECTRIC MOTOR SERVICE INC	194909	05/18/2021	22100570	061621ap	13,920.54
	Invoice: 194909					FOSTER PUMP REHAB/REPAIRS SUND			
					13,920.54 40013222 520543	WW R&M			
								CHECK 136296 TOTAL:	13,920.54
136297	06/16/2021	PRTD	5719	FREIGHTLINER OF ARIZONA, LLC	XA310400088:01	05/13/2021	22100262	061621ap	8.38
	Invoice: XA310400088:01					AUTOMOTIVE VEHICLES AND RELATE			
					8.38 10003171 522155	Operational Supplies			
				FREIGHTLINER OF ARIZONA, LLC	XA310408043:01	06/02/2021	22100262	061621ap	11.40
	Invoice: XA310408043:01					AUTOMOTIVE VEHICLES AND RELATE			
					11.40 10003171 522155	Operational Supplies			
				FREIGHTLINER OF ARIZONA, LLC	XA310411820:01	06/11/2021	22100262	061621ap	356.39
	Invoice: XA310411820:01					AUTOMOTIVE VEHICLES AND RELATE			
					356.39 38103202 521508	Automotive Expenses			
								CHECK 136297 TOTAL:	376.17
136298	06/16/2021	PRTD	1463	G.P.E.C.	FY2021-Q4	06/10/2021	22100534	061621ap	9,992.75
	Invoice: FY2021-Q4					GPEC Contract			
					9,992.75 10001187 520018	General Contractual Services			
								CHECK 136298 TOTAL:	9,992.75
136299	06/16/2021	PRTD	6551	G4S SECURE SOLUTIONS USA INC	11834223	06/06/2021	22100756	061621ap	11.63
	Invoice: 11834223					SECURITY OFFICER SERVICES CONT			
					5.82 40003210 520037	Professional Services General			
					5.81 40013220 520037	Professional Services General			
								CHECK 136299 TOTAL:	11.63
136300	06/16/2021	PRTD	6562	GABOR LORANT ARCHITECTS, INC	19115-Design-07	06/09/2021	22000831	061621ap	27,849.41
	Invoice: 19115-Design-07					CONTRACT 2019021-1 DESIGN BUCK			
					27,849.41 50214150 543058	Buckeye Pool Expansion			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136300 TOTAL:	27,849.41
136301	06/16/2021	PRTD	1486	GRAYBAR	9321881056	06/10/2021	22101261	061621ap	1,102.07
	Invoice: 9321881056					SECURITY CAMERAS FOR WATER			
					1,102.07 40001113 543139	Access Control Wtr Prod Well			
							CHECK	136301 TOTAL:	1,102.07
136302	06/16/2021	PRTD	1016	HAYDON BUILDING CORP	22100967-3	05/31/2021	22100967	061621ap	536,542.53
	Invoice: 22100967-3					247TH ROADWAY IMPROVEMENT - N. LOWER BUCKEYE			
					536,542.53 50213170 543070	247 Ave Paving, LBuck-Durango			
							CHECK	136302 TOTAL:	536,542.53
136303	06/16/2021	PRTD	5180	HDR ENGINEERING, INC	1200352142	06/03/2021	22100526	061621ap	155,000.00
	Invoice: 1200352142					TO #6 INTERIM AIRPORT WATER SY			
					155,000.00 40001113 543042	Waterline at Airport			
				HDR ENGINEERING, INC	1200351790	06/02/2021	22101183	061621ap	50,000.00
	Invoice: 1200351790					TO #9 WEST PHOENIX ESTATES WATER MAIN			
					50,000.00 40001113 543102	WPhoenix Est Wtr Campus #3 Imp			
							CHECK	136303 TOTAL:	205,000.00
136304	06/16/2021	PRTD	6798	HI-LINE ELECTRIC COMPANY, INC	10863819	05/27/2021	22100890	061621ap	90.35
	Invoice: 10863819					FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC.			
					90.35 10003171 522155	Operational Supplies			
				HI-LINE ELECTRIC COMPANY, INC	10867094	06/10/2021	22100890	061621ap	24.45
	Invoice: 10867094					FASTENERS: BOLTS, NUTS, PINS, RIVETS, SCREWS, ETC.			
					24.45 10003171 522155	Operational Supplies			
							CHECK	136304 TOTAL:	114.80
136305	06/16/2021	PRTD	5539	HILGARTWILSON, LLC	28110	06/09/2021	22000756	061621ap	165.00
	Invoice: 28110					TASK ORDER #4-247TH AVE DESIGN			
					165.00 50213170 543070	247 Ave Paving, LBuck-Durango			
				HILGARTWILSON, LLC	27729	06/09/2021	22000756	061621ap	130.00
	Invoice: 27729					TASK ORDER #4-247TH AVE DESIGN			
					130.00 50213170 543070	247 Ave Paving, LBuck-Durango			
				HILGARTWILSON, LLC	26978	06/09/2021	22000756	061621ap	1,310.00
	Invoice: 26978					TASK ORDER #4-247TH AVE DESIGN			
					1,310.00 50213170 543070	247 Ave Paving, LBuck-Durango			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136305 TOTAL:	1,605.00
136306	06/16/2021	PRTD	1513	HILL BROTHERS CHEMICAL COMPANY	07095623	05/28/2021	22100066	061621ap	1,911.36
Invoice: 07095623						WASTEWATER TREATING CHEMICALS			
					1,911.36 40013221 521540	Chemicals			
							CHECK	136306 TOTAL:	1,911.36
136307	06/16/2021	PRTD	5091	HUBER TECHNOLOGY, INC	CD10021375	06/07/2021	22100641	061621ap	19,601.75
Invoice: CD10021375						PURCHASE ORDER FOR HUBER PARTS			
					19,601.75 40013222 520543	WW R&M			
							CHECK	136307 TOTAL:	19,601.75
136308	06/16/2021	PRTD	1551	INTERIOR SOLUTIONS OF AZ, LLC	115675-1-MB	05/18/2020		061621ap	39,409.85
Invoice: 115675-1-MB						FFE POLICE EVIDENCE BLD PO 22001015 CLOSED			
					39,409.85 50212121 543052	Police Evidence Bldg			
				INTERIOR SOLUTIONS OF AZ, LLC	115675-4-MB	08/27/2020		061621ap	27,400.00
Invoice: 115675-4-MB						FFE PD EVIDENCE BLD PO 22001015			
					27,400.00 50212121 543052	Police Evidence Bldg			
							CHECK	136308 TOTAL:	66,809.85
136309	06/16/2021	PRTD	1571	JAMES, COOKE & HOBSON, INC	366659	06/03/2021	22100400	061621ap	1,149.62
Invoice: 366659						KAESER BLOWER PARTS CENTRAL/SU			
					596.14 40013221 520540	Wastewater Plant R & M			
					553.48 40013222 520543	WW R&M			
							CHECK	136309 TOTAL:	1,149.62
136310	06/16/2021	PRTD	1571	JAMES, COOKE & HOBSON, INC	366467	06/14/2021	22101332	061621ap	2,733.69
Invoice: 366467						REPAIR FLYGT PUMP 3102 PARCEL 7 PUMP1 6HP IMPELL			
					2,733.69 40013222 520543	WW R&M			
				JAMES, COOKE & HOBSON, INC	366719	06/14/2021	22101332	061621ap	3,979.44
Invoice: 366719						REPAIR FLYGT PUMP 3102 PARCEL 7 PUMP1 6HP IMPELL			
					3,979.44 40013222 520543	WW R&M			
				JAMES, COOKE & HOBSON, INC	366133	06/14/2021	22101039	061621ap	48,321.71
Invoice: 366133						REPLACE EXISTING 45 HP FLYGT INFLUENT PUMP			
					48,321.71 40013224 541070	Other Equipment >$5,000			
							CHECK	136310 TOTAL:	55,034.84

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136311	06/16/2021	PRTD	5700	JW ENVIRONMENTAL CONSULTING LLC	96	05/10/2021	22000241	061621ap	6,335.00
	Invoice: 96					CONTRACT 31800036 IPP			
					6,335.00 40013220 520037	Professional Services General			
				JW ENVIRONMENTAL CONSULTING LLC	98	06/15/2021	22000241	061621ap	7,875.00
	Invoice: 98					CONTRACT 31800036 IPP			
					7,875.00 40013220 520037	Professional Services General			
				JW ENVIRONMENTAL CONSULTING LLC	97	06/03/2021	22000241	061621ap	3,080.00
	Invoice: 97					CONTRACT 31800036 IPP			
					3,080.00 40013220 520037	Professional Services General			
						CHECK	136311 TOTAL:		17,290.00
136312	06/16/2021	PRTD	5363	K.P. VENTURES	9509	06/08/2021	22101154	061621ap	87,972.32
	Invoice: 9509					PULL, INSPECT, VIDEO FOR FESTIVAL RANCH WELL #1			
					87,972.32 40003215 520581	Well Maintenance Repair			
						CHECK	136312 TOTAL:		87,972.32
136313	06/16/2021	PRTD	1582	KELLER ELECTRICAL INDUSTRIES INC	0221582-IN	05/30/2021	22101161	061621ap	1,020.67
	Invoice: 0221582-IN					HAYWARD GORDON PUMP MOTOR REPAIR			
					1,020.67 40013221 520540	Wastewater Plant R & M			
						CHECK	136313 TOTAL:		1,020.67
136314	06/16/2021	PRTD	5952	KIEWIT/HAYDON, A JOINT VENTURE	2105150027ATEMP	06/05/2021	21900960	061621ap	2,901.33
	Invoice: 2105150027ATEMP					BRWC CO #15 EMERGENCY RESERVOI			
					2,901.33 40003210 543028	Jackie A Meck Wtr Campus/BRWC			
				KIEWIT/HAYDON, A JOINT VENTURE	2105280010	06/11/2021	22100527	061621ap	5,700,416.71
	Invoice: 2105280010					GMP 28 BROADWAY ROAD WATER CAM			
					5,700,416.71 40003210 543028	Jackie A Meck Wtr Campus/BRWC			
						CHECK	136314 TOTAL:		5,703,318.04
136315	06/16/2021	PRTD	5952	KIEWIT/HAYDON, A JOINT VENTURE	2105CR0022C	06/11/2021		061621ap	40,139.00
	Invoice: 2105CR0022C					APACHE RD WTP PHASE 1			
					40,139.00 40003210 543028	Jackie A Meck Wtr Campus/BRWC			
						CHECK	136315 TOTAL:		40,139.00
136316	06/16/2021	PRTD	5666	KIMLEY-HORN AND ASSOCIATES, INC.	18894071	05/31/2021	22000645	061621ap	1,603.50
	Invoice: 18894071					CIP PROJECT- MILLER/BASELINE I			
					1,603.50 50213170 543077	Miller & Baseline TS			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
				KIMLEY-HORN AND ASSOCIATES, INC.	18651604	03/31/2021	22100902	061621ap	7,441.50
Invoice: 18651604						Design Miller Rd. Durango St. to Pima St.			
					7,441.50 50213170 543137	Miller Rd Exp-Durango-LBuckeye			
				KIMLEY-HORN AND ASSOCIATES, INC.	18894076	05/31/2021	22100787	061621ap	19,167.00
Invoice: 18894076						TO #10 DESIGN MILLER RD WIDENING.			
					19,167.00 50213170 543137	Miller Rd Exp-Durango-LBuckeye			
								CHECK 136316 TOTAL:	28,212.00
136317	06/16/2021	PRTD	1594	L.N. CURTIS & SONS	INV495551	06/03/2021	22101258	061621ap	2,242.36
Invoice: INV495551						Vehicle Charging Stations			
					2,242.36 10002140 521520	Small Tools<$5,000			
								CHECK 136317 TOTAL:	2,242.36
136318	06/16/2021	PRTD	6190	LEGEND TECHNICAL SERVICES, INC.	2108041	05/31/2021	22100416	061621ap	916.00
Invoice: 2108041						LEGEND LABORATORY FEES WASTEWA			
					916.00 40013223 520049	Laboratory Fees			
				LEGEND TECHNICAL SERVICES, INC.	2108040	05/31/2021	22100416	061621ap	1,203.00
Invoice: 2108040						LEGEND LABORATORY FEES WASTEWA			
					1,203.00 40013222 520049	Laboratory Fees			
				LEGEND TECHNICAL SERVICES, INC.	2108039	05/31/2021	22100416	061621ap	1,427.00
Invoice: 2108039						LEGEND LABORATORY FEES WASTEWA			
					1,427.00 40013224 520049	Laboratory Fees			
				LEGEND TECHNICAL SERVICES, INC.	2108037	05/31/2021	22100416	061621ap	1,651.00
Invoice: 2108037						LEGEND LABORATORY FEES WASTEWA			
					1,651.00 40013221 520049	Laboratory Fees			
				LEGEND TECHNICAL SERVICES, INC.	2108035	05/31/2021	22100152	061621ap	1,523.00
Invoice: 2108035						DRINKING WATER SAMPLING			
					135.00 40003212 520049	Laboratory Fees			
					940.00 40003213 520049	Laboratory Fees			
					36.00 40003214 520049	Laboratory Fees			
					120.00 40003215 520049	Laboratory Fees			
					24.00 40003217 520049	Laboratory Fees			
					244.00 40003218 520049	Laboratory Fees			
					24.00 40003219 520049	Laboratory Fees			
								CHECK 136318 TOTAL:	6,720.00
136319	06/16/2021	PRTD	6681	THE SUPPLY CACHE INC	265076a	06/01/2021	22101334	061621ap	2,973.92
Invoice: 265076a						WILDLAND FIRE PROTECTION EQUIPMENT AND SUPPLIES			
					2,973.92 10002140 522154	Wildland Firefighting Program			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136319 TOTAL:	2,973.92
136320	06/16/2021	PRTD	1652	MARICOPA COUNTY SHERIFF'S OFFICE	MAY21HSNG	06/02/2021	22100027	061621ap	31,506.65
Invoice: MAY21HSNG						Prisoner Incarceration Fees fo			
					31,506.65 10002121 520008	Prisoner/Incarceration (MCSO)			
							CHECK	136320 TOTAL:	31,506.65
136321	06/16/2021	PRTD	5018	METRO FIRE EQUIPMENT INC	IN00321117	06/09/2021	22101263	061621ap	403.50
Invoice: IN00321117						ANNUAL FIRE INSPECTION			
					403.50 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00320918	06/08/2021	22101263	061621ap	150.00
Invoice: IN00320918						ANNUAL FIRE INSPECTION			
					150.00 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00321058	06/09/2021	22101263	061621ap	77.50
Invoice: IN00321058						ANNUAL FIRE INSPECTION			
					77.50 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00320916	06/08/2021	22101263	061621ap	335.00
Invoice: IN00320916						ANNUAL FIRE INSPECTION			
					335.00 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00321067	06/09/2021	22101263	061621ap	80.00
Invoice: IN00321067						ANNUAL FIRE INSPECTION			
					80.00 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00321071	06/09/2021	22101263	061621ap	104.50
Invoice: IN00321071						ANNUAL FIRE INSPECTION			
					104.50 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00321059	06/09/2021	22101263	061621ap	87.50
Invoice: IN00321059						ANNUAL FIRE INSPECTION			
					87.50 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00320926	06/08/2021	22101263	061621ap	669.00
Invoice: IN00320926						ANNUAL FIRE INSPECTION			
					669.00 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00321074	06/09/2021	22101263	061621ap	82.50
Invoice: IN00321074						ANNUAL FIRE INSPECTION			
					82.50 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00321102	06/09/2021	22101263	061621ap	75.00
Invoice: IN00321102						ANNUAL FIRE INSPECTION			
					75.00 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00320919	06/08/2021	22101263	061621ap	433.00
Invoice: IN00320919						ANNUAL FIRE INSPECTION			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC			
				433.00 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00320907	06/08/2021	22101263	061621ap	142.50
Invoice: IN00320907					ANNUAL FIRE INSPECTION			
				142.50 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00321098	06/09/2021	22101263	061621ap	147.50
Invoice: IN00321098					ANNUAL FIRE INSPECTION			
				147.50 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00320921	06/08/2021	22101263	061621ap	150.00
Invoice: IN00320921					ANNUAL FIRE INSPECTION			
				150.00 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00321119	06/09/2021	22101263	061621ap	228.10
Invoice: IN00321119					ANNUAL FIRE INSPECTION			
				228.10 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00320925	06/08/2021	22101263	061621ap	495.00
Invoice: IN00320925					ANNUAL FIRE INSPECTION			
				495.00 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00321057	06/09/2021	22101263	061621ap	97.50
Invoice: IN00321057					ANNUAL FIRE INSPECTION			
				97.50 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00320914	06/08/2021	22101263	061621ap	948.00
Invoice: IN00320914					ANNUAL FIRE INSPECTION			
				948.00 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00320923	06/08/2021	22101263	061621ap	899.50
Invoice: IN00320923					ANNUAL FIRE INSPECTION			
				899.50 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00321066	06/09/2021	22101263	061621ap	72.50
Invoice: IN00321066					ANNUAL FIRE INSPECTION			
				72.50 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00321114	06/09/2021	22101263	061621ap	124.50
Invoice: IN00321114								
				124.50 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00321062	06/09/2021	22101263	061621ap	72.50
Invoice: IN00321062					ANNUAL FIRE INSPECTION			
				72.50 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00321064	06/09/2021	22101263	061621ap	75.00
Invoice: IN00321064					ANNUAL FIRE INSPECTION			
				75.00 10003172 520037	Professional Services General			
			METRO FIRE EQUIPMENT INC	IN00321060	06/09/2021	22101263	061621ap	149.80
Invoice: IN00321060					ANNUAL FIRE INSPECTION			

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CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
					149.80 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00321068	06/09/2021	22101263	061621ap	137.50
Invoice: IN00321068						ANNUAL FIRE INSPECTION			
					137.50 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00321061	06/09/2021	22101263	061621ap	67.50
Invoice: IN00321061						ANNUAL FIRE INSPECTION			
					67.50 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00321065	06/09/2021	22101263	061621ap	70.00
Invoice: IN00321065						ANNUAL FIRE INSPECTION			
					70.00 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00321073	06/09/2021	22101263	061621ap	70.00
Invoice: IN00321073						ANNUAL FIRE INSPECTION			
					70.00 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00321070	06/09/2021	22101263	061621ap	180.00
Invoice: IN00321070						ANNUAL FIRE INSPECTION			
					180.00 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00320943	06/08/2021	22101228	061621ap	210.25
Invoice: IN00320943						ANNUAL FIRE INSPECTION			
					210.25 10003176 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00320909	06/08/2021	22101241	061621ap	416.50
Invoice: IN00320909						WATER RESOURCES - ANNUAL FIRE INSPECTION			
					416.50 40003210 520037	Professional Services General			
								CHECK 136321 TOTAL:	7,251.65
136322	06/16/2021	PRTD	5018	METRO FIRE EQUIPMENT INC	IN00320229	06/03/2021	22100109	061621ap	900.00
Invoice: IN00320229						ANNUAL FIRE SYSTEM INSPECTION			
					900.00 40013224 520543	WW R&M			
								CHECK 136322 TOTAL:	900.00
136323	06/16/2021	PRTD	5113	MICHAEL BAKER INTERNATIONAL, INC.	1118465	06/08/2021	22100599	061621ap	66,265.00
Invoice: 1118465						ENGINEERING SERVICES, PROFESSI			
					66,265.00 10005185 520006	Engineering Services			
				MICHAEL BAKER INTERNATIONAL, INC.	1117314	05/26/2021	22100599	061621ap	38,773.00
Invoice: 1117314						ENGINEERING SERVICES, PROFESSI			
					38,773.00 10005185 520006	Engineering Services			
								CHECK 136323 TOTAL:	105,038.00

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136324	06/16/2021	PRTD	5741	MICHAEL WILSON KELLY-ARCHITECTS L	2021.08.01	06/08/2021	22101254	061621ap	4,375.00
	Invoice: 2021.08.01					TO #15 HERITAGE PARK SECURITY DESIGN			
					4,375.00 10004155 549999	Completed Capital			
						CHECK	136324 TOTAL:		4,375.00
136325	06/16/2021	PRTD	1203	MRW ENTERPRISES	225825	06/09/2021	22100120	061621ap	234.66
	Invoice: 225825					DECALS AND STAMPS			
					234.66 10003171 522155	Operational Supplies			
						CHECK	136325 TOTAL:		234.66
136326	06/16/2021	PRTD	1687	MUNICIPAL EMERGENCY SERVICES	IN1587480	06/08/2021	22100200	061621ap	1,107.62
	Invoice: IN1587480					Hydro Testing, Maintenance and			
					1,107.62 10002140 520525	Hardware Maintenance			
						CHECK	136326 TOTAL:		1,107.62
136327	06/16/2021	PRTD	1689	MYERS TIRE SUPPLY DISTRIBUTION	13532322	06/03/2021	22100121	061621ap	172.54
	Invoice: 13532322					AUTOMOTIVE AND TRAILER EQUIPME			
					172.54 10003171 522155	Operational Supplies			
						CHECK	136327 TOTAL:		172.54
136328	06/16/2021	PRTD	6451	NESTLE WATERS NORTH AMERICA	01E6700442463	06/02/2021	22100768	061621ap	142.12
	Invoice: 01E6700442463					DRINKING WATER DELIVERY SERVIC			
					71.06 40003210 521501	Office Supplies			
					71.06 40013220 521501	Office Supplies			
						CHECK	136328 TOTAL:		142.12
136329	06/16/2021	PRTD	999999	PULTE HOMES	105506	06/15/2021		061621ap	275.96
	Invoice: 105506					GB Customer ID 1390 Bill #19372			
					275.96 4000 134000	A/R Other			
						CHECK	136329 TOTAL:		275.96
136330	06/16/2021	PRTD	999999	PULTE HOMES	105507	06/15/2021		061621ap	225.79
	Invoice: 105507					GB Customer ID 1390 Bill #19600			
					225.79 3810 134000	A/R Other			
						CHECK	136330 TOTAL:		225.79

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CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136331	06/16/2021	PRTD	999996	Blucor Contracting	Odyssey/Sienna Hills	06/09/2021		061621ap	15,000.00
	Invoice: Odyssey/Sienna Hills				Cash bond return for Odyssey at Sienna Hills proj				
					15,000.00 1000 231100 Cash Bond Eng				
								CHECK 136331 TOTAL:	15,000.00
136332	06/16/2021	PRTD	999996	Doublejack Inc.	APS Celeborn	06/09/2021		061621ap	6,245.80
	Invoice: APS Celeborn				Return cash bond for APS Celeborn substation proj.				
					6,245.80 1000 231100 Cash Bond Eng				
								CHECK 136332 TOTAL:	6,245.80
136333	06/16/2021	PRTD	999996	Higley Homes	Parcel 3.301	06/09/2021		061621ap	6,428.40
	Invoice: Parcel 3.301				Return cash bond for Verrado Parcel 3.301 project				
					6,428.40 1000 231100 Cash Bond Eng				
								CHECK 136333 TOTAL:	6,428.40
136334	06/16/2021	PRTD	6826	OUT OF THE BLUE LOGISTICS	1004	04/16/2021	22101003	061621ap	1,650.00
	Invoice: 1004				Open PO - DRMO				
					1,650.00 10002121 521504 Community Policing Supplies				
								CHECK 136334 TOTAL:	1,650.00
136335	06/16/2021	PRTD	5338	OVERDRIVE, INC	03880CO21239531	05/26/2021	22101045	061621ap	505.14
	Invoice: 03880CO21239531				Open PO for e-Books				
					505.14 10004151 521550 Library Materials				
				OVERDRIVE, INC	03880DA21247695	06/01/2021	22101045	061621ap	708.87
	Invoice: 03880DA21247695				Open PO for e-Books				
					708.87 10004151 521550 Library Materials				
				OVERDRIVE, INC	03880DA21254175	06/07/2021	22101045	061621ap	130.00
	Invoice: 03880DA21254175				Open PO for e-Books				
					130.00 10004151 521550 Library Materials				
				OVERDRIVE, INC	03880DA21255756	06/08/2021	22101045	061621ap	228.97
	Invoice: 03880DA21255756				Open PO for e-Books				
					228.97 10004151 521550 Library Materials				
								CHECK 136335 TOTAL:	1,572.98
136336	06/16/2021	PRTD	5513	PARTS MART	854255P	06/10/2021	22100348	061621ap	337.28
	Invoice: 854255P				AUTOMOTIVE AND TRAILER EQUIPME				
					337.28 10003171 522155 Operational Supplies				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
				PARTS MART	854263P	06/10/2021	22100348	061621ap	90.49
Invoice: 854263P					90.49	10003171 522155	AUTOMOTIVE AND TRAILER EQUIPME Operational Supplies		
							CHECK 136336 TOTAL:		427.77
136337	06/16/2021	PRTD	3024	PBC PHOENIX INC	516035	05/01/2021	22100174	061621ap	9,792.00
Invoice: 516035					9,792.00	10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract		
				PBC PHOENIX INC	509139	03/31/2021	22100177	061621ap	2,404.62
Invoice: 509139					2,404.62	10003177 520019	FY 20/21 - LIBRARY CUSTODIAL S Custodial Contract		
				PBC PHOENIX INC	509151	03/31/2021	22100550	061621ap	230.00
Invoice: 509151					230.00	40013220 520019	WATER DEPT. - CUSTODIAL SERVIC Custodial Contract (PW)		
				PBC PHOENIX INC	509106	03/31/2021	22100174	061621ap	535.95
Invoice: 509106					535.95	10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract		
				PBC PHOENIX INC	509117	03/31/2021	22100174	061621ap	526.14
Invoice: 509117					526.14	10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract		
				PBC PHOENIX INC	509131	03/31/2021	22100177	061621ap	1,322.19
Invoice: 509131					1,322.19	10003177 520019	FY 20/21 - LIBRARY CUSTODIAL S Custodial Contract		
				PBC PHOENIX INC	509134	03/31/2021	22100176	061621ap	5,387.94
Invoice: 509134					5,387.94	10003176 520019	FY 20/21 - SUNDANCE CUSTODIAL Custodial Contract		
				PBC PHOENIX INC	509119	03/31/2021	22100174	061621ap	2,845.25
Invoice: 509119					2,845.25	10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract		
				PBC PHOENIX INC	509108	03/31/2021	22100180	061621ap	1,131.60
Invoice: 509108					1,131.60	35754150 520019	FY 20/21 - COMMUNITY CTR CUST Custodial Contract (PW)		
				PBC PHOENIX INC	509141	03/31/2021	22100174	061621ap	768.00
Invoice: 509141					768.00	10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract		
				PBC PHOENIX INC	509154	03/31/2021	22100174	061621ap	398.34
Invoice: 509154					398.34	10003172 520019	FY 20/21 - CITYWIDE CUSTODIAL Custodial Contract		
				PBC PHOENIX INC	509110	03/31/2021	22100174	061621ap	153.63

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC			
Invoice: 509110					FY 20/21 - CITYWIDE CUSTODIAL			
				153.63 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	509122	03/31/2021	22100181	061621ap	804.12
Invoice: 509122					FY 20/21 - WATER RESOURCES CUS			
				804.12 40003210 520019	Custodial Contract (PW)			
			PBC PHOENIX INC	509097	03/31/2021	22100174	061621ap	4,149.16
Invoice: 509097					FY 20/21 - CITYWIDE CUSTODIAL			
				4,149.16 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	509124	03/31/2021	22100101	061621ap	610.66
Invoice: 509124					FY 20/21 - CUSTODIAL SERVICES			
				610.66 40103200 520019	Custodial Contract (PW)			
			PBC PHOENIX INC	509129	03/31/2021	22100179	061621ap	4,161.19
Invoice: 509129					FY 20/21 - CITY HALL CUSTODIAL			
				4,161.19 10003174 520019	Custodial Contract			
			PBC PHOENIX INC	509113	03/31/2021	22100181	061621ap	2,739.15
Invoice: 509113					FY 20/21 - WATER RESOURCES CUS			
				2,739.15 40003210 520019	Custodial Contract (PW)			
			PBC PHOENIX INC	509115	03/31/2021	22100174	061621ap	1,420.47
Invoice: 509115					FY 20/21 - CITYWIDE CUSTODIAL			
				1,420.47 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	509164	03/31/2021	22100178	061621ap	407.84
Invoice: 509164					FY 20/21 - CHARMAN BLDG CUSTOD			
				407.84 10003175 520019	Custodial Contract			
			PBC PHOENIX INC	509146	03/31/2021	22100550	061621ap	199.17
Invoice: 509146					WATER DEPT. - CUSTODIAL SERVIC			
				199.17 40013220 520019	Custodial Contract (PW)			
			PBC PHOENIX INC	509148	03/31/2021	22100680	061621ap	966.00
Invoice: 509148					SKYLINE PARK CUSTODIAL CONTRAC			
				966.00 10004155 520019	Custodial Contract			
			PBC PHOENIX INC	509159	03/31/2021	22100174	061621ap	10,944.00
Invoice: 509159					FY 20/21 - CITYWIDE CUSTODIAL			
				10,944.00 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	515459	05/31/2021	22100174	061621ap	476.40
Invoice: 515459					FY 20/21 - CITYWIDE CUSTODIAL			
				476.40 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	515460	05/31/2021	22100180	061621ap	984.00
Invoice: 515460					FY 20/21 - COMMUNITY CTR CUST			
				984.00 35754150 520019	Custodial Contract (PW)			
			PBC PHOENIX INC	515461	05/31/2021	22100174	061621ap	153.63

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC			
Invoice: 515461					FY 20/21 - CITYWIDE CUSTODIAL			
				153.63 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	515463	05/31/2021 22100174	061621ap		841.76
Invoice: 515463					FY 20/21 - CITYWIDE CUSTODIAL			
				841.76 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	515464	05/31/2021 22100174	061621ap		467.68
Invoice: 515464					FY 20/21 - CITYWIDE CUSTODIAL			
				467.68 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	515465	05/31/2021 22100174	061621ap		2,396.00
Invoice: 515465					FY 20/21 - CITYWIDE CUSTODIAL			
				2,396.00 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	515466	05/31/2021 22100181	061621ap		664.32
Invoice: 515466					FY 20/21 - WATER RESOURCES CUS			
				664.32 40003210 520019	Custodial Contract (PW)			
			PBC PHOENIX INC	515471	05/31/2021 22100101	061621ap		257.12
Invoice: 515471					FY 20/21 - CUSTODIAL SERVICES			
				257.12 40103200 520019	Custodial Contract (PW)			
			PBC PHOENIX INC	515472	05/31/2021 22100179	061621ap		3,504.16
Invoice: 515472					FY 20/21 - CITY HALL CUSTODIAL			
				3,504.16 10003174 520019	Custodial Contract			
			PBC PHOENIX INC	515473	05/31/2021 22100177	061621ap		1,224.25
Invoice: 515473					FY 20/21 - LIBRARY CUSTODIAL S			
				1,224.25 10003177 520019	Custodial Contract			
			PBC PHOENIX INC	515474	05/31/2021 22100176	061621ap		4,956.30
Invoice: 515474					FY 20/21 - SUNDANCE CUSTODIAL			
				4,956.30 10003176 520019	Custodial Contract			
			PBC PHOENIX INC	515476	05/31/2021 22100177	061621ap		2,226.50
Invoice: 515476					FY 20/21 - LIBRARY CUSTODIAL S			
				2,226.50 10003177 520019	Custodial Contract			
			PBC PHOENIX INC	515477	05/31/2021 22100174	061621ap		354.08
Invoice: 515477					FY 20/21 - CITYWIDE CUSTODIAL			
				354.08 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	515478	05/31/2021 22100178	061621ap		407.84
Invoice: 515478					FY 20/21 - CHARMAN BLDG CUSTOD			
				407.84 10003175 520019	Custodial Contract			
			PBC PHOENIX INC	515484	05/31/2021 22100680	061621ap		1,012.00
Invoice: 515484					SKYLINE PARK CUSTODIAL CONTRAC			
				1,012.00 10004155 520019	Custodial Contract			
			PBC PHOENIX INC	515487	05/31/2021 22100174	061621ap		768.00

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
	Invoice: 515487					FY 20/21 - CITYWIDE CUSTODIAL			
				768.00	10003172 520019	Custodial Contract			
			PBC PHOENIX INC		515488	05/31/2021	22100174	061621ap	153.63
	Invoice: 515488					FY 20/21 - CITYWIDE CUSTODIAL			
				153.63	10003172 520019	Custodial Contract			
			PBC PHOENIX INC		515489	05/31/2021	22100174	061621ap	599.25
	Invoice: 515489					FY 20/21 - CITYWIDE CUSTODIAL			
				599.25	10003172 520019	Custodial Contract			
			PBC PHOENIX INC		515490	05/31/2021	22100176	061621ap	481.25
	Invoice: 515490					FY 20/21 - SUNDANCE CUSTODIAL			
				481.25	10003176 520019	Custodial Contract			
			PBC PHOENIX INC		515492	05/31/2021	22100174	061621ap	442.62
	Invoice: 515492					FY 20/21 - CITYWIDE CUSTODIAL			
				442.62	10003172 520019	Custodial Contract			
								CHECK 136337 TOTAL:	74,268.21
136338	06/16/2021	PRTD	6585	PCL CONSTRUCTION, INC	22100323-9	05/31/2021	22100323	061621ap	93,318.10
	Invoice: 22100323-9					CENTRAL WWT REHAB OF TRAIN A &			
				93,318.10	40011113 543116	Central WRF Upgrades			
								CHECK 136338 TOTAL:	93,318.10
136339	06/16/2021	PRTD	6585	PCL CONSTRUCTION, INC	22100957-2	05/31/2021	22100957	061621ap	193,286.76
	Invoice: 22100957-2					DO #5 FESTIVAL RANCH WRF IMPROVEMENTS			
				193,286.76	40011113 543129	Festival WRF Improvements			
								CHECK 136339 TOTAL:	193,286.76
136340	06/16/2021	PRTD	1769	PIONEER DISTRIBUTING CO INC	447051	05/10/2021	22100387	061621ap	1,410.39
	Invoice: 447051					FUEL, OIL, GREASE AND LUBRICAN			
				327.49	10003171 522155	Operational Supplies			
				96.89	38103202 521508	Automotive Expenses			
				129.34	40003210 521508	Automotive Expenses			
				856.67	40013220 521508	Automotive Expenses			
			PIONEER DISTRIBUTING CO INC		444820	04/05/2021	22100387	061621ap	798.83
	Invoice: 444820					FUEL, OIL, GREASE AND LUBRICAN			
				206.39	10003171 522155	Operational Supplies			
				86.56	38103202 521508	Automotive Expenses			
				106.46	40003210 521508	Automotive Expenses			
				399.42	40013220 521508	Automotive Expenses			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136340 TOTAL:	2,209.22
136341	06/16/2021	PRTD	6741	AIMS COMPANIES	926800	06/03/2021	22100664	061621ap	1,793.00
Invoice: 926800					WET WELL SCUM REMOVAL & INSPEC				
				1,793.00	40013220 520037 Professional Services General				
							CHECK	136341 TOTAL:	1,793.00
136342	06/16/2021	PRTD	3080	PRAXAIR DISTRIBUTION INC	63863678	05/27/2021	22100062	061621ap	357.01
Invoice: 63863678					CO2 FOR NEW AIRPORT WELL AND S				
				357.01	40003218 521540 Chemicals				
							CHECK	136342 TOTAL:	357.01
136343	06/16/2021	PRTD	1789	PRECISION ELECTRIC CO, INC	0093469-IN	06/14/2021	22101321	061621ap	8,769.88
Invoice: 0093469-IN					NORTH AIRPORT WELL #1 MOTOR REBUILD				
				8,769.88	40003216 520581 Well Maintenance Repair				
							CHECK	136343 TOTAL:	8,769.88
136344	06/16/2021	PRTD	1847	RODEO FORD INC	151059	05/26/2021	22100433	061621ap	924.17
Invoice: 151059					AUTOMOTIVE AND TRAILER EQUIPME				
				924.17	10003171 520505 Vehicle & Equipment Repair				
				RODEO FORD INC	151291	06/01/2021	22100433	061621ap	44.26
Invoice: 151291					AUTOMOTIVE AND TRAILER EQUIPME				
				44.26	10003171 522155 Operational Supplies				
				RODEO FORD INC	479736	05/28/2021	22100433	061621ap	97.50
Invoice: 479736					AUTOMOTIVE AND TRAILER EQUIPME				
				97.50	10003171 520505 Vehicle & Equipment Repair				
							CHECK	136344 TOTAL:	1,065.93
136345	06/16/2021	PRTD	5118	RUST AUTOMATION & CONTROLS INC	INV11704	06/09/2021	22101322	061621ap	6,061.92
Invoice: INV11704					SUBMERSIBLE FLEXIM K CLAMP-ON FLOW TRANSDUCER				
				6,061.92	40013221 541070 Other Equipment >$5,000				
							CHECK	136345 TOTAL:	6,061.92
136346	06/16/2021	PRTD	1865	SALT RIVER EXTRACTION LLC	31368	05/20/2021	22100065	061621ap	3,057.45
Invoice: 31368					SLUDGE TRANSPORT TO LANDFILL				
				3,057.45	40003213 520585 Treatment Plant O&M				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136346 TOTAL:	3,057.45
136347	06/16/2021	PRTD	1868	SAN DIEGO POLICE EQUIPMENT CO	645478	12/23/2020	22100168	061621ap	6,424.76
	Invoice: 645478					Ammunition			
				6,424.76	10002121 521900	Ammunition			
							CHECK	136347 TOTAL:	6,424.76
136348	06/16/2021	PRTD	5310	SANDS CHEVROLET, LLC	132161	05/05/2021	22100278	061621ap	127.63
	Invoice: 132161					AUTOMOTIVE AND TRAILER EQUIPME			
				127.63	10003171 522155	Operational Supplies			
				SANDS CHEVROLET, LLC	133014	06/03/2021	22100278	061621ap	67.66
	Invoice: 133014					AUTOMOTIVE AND TRAILER EQUIPME			
				67.66	10003171 522155	Operational Supplies			
							CHECK	136348 TOTAL:	195.29
136349	06/16/2021	PRTD	5401	SCOTTS AZ ELECTRIC MOTOR REPAIR	123041	06/09/2021	22101354	061621ap	1,520.23
	Invoice: 123041					FESTIVAL WRF PUMP AND MOTOR REBUILD			
				1,520.23	40013224 520543	WW R&M			
				SCOTTS AZ ELECTRIC MOTOR REPAIR	122981	06/07/2021	22101354	061621ap	1,234.09
	Invoice: 122981					FESTIVAL WRF PUMP AND MOTOR REBUILD			
				1,234.09	40013224 520543	WW R&M			
							CHECK	136349 TOTAL:	2,754.32
136350	06/16/2021	PRTD	6672	SIGNIX, INC.	COBAZ-0621L	06/09/2021	22100016	061621ap	750.00
	Invoice: COBAZ-0621L					Open PO for SIGNiX			
				750.00	10001102 520037	Professional Services General			
							CHECK	136350 TOTAL:	750.00
136351	06/16/2021	PRTD	5436	SKAGGS COMPANIES INC	20210601	06/01/2021	22100295	061621ap	8,319.69
	Invoice: 20210601					Station Uniforms			
				8,319.69	10002140 521922	Uniforms			
							CHECK	136351 TOTAL:	8,319.69
136352	06/16/2021	PRTD	6161	SOUTHERN TIRE MART, LLC	6130046432	06/05/2021	22100395	061621ap	546.93
	Invoice: 6130046432					TIRES AND TUBES (INCL. RECAPPE			
				546.93	40003210 521508	Automotive Expenses			
				SOUTHERN TIRE MART, LLC	6130046195	06/13/2021	22100395	061621ap	588.91
	Invoice: 6130046195					TIRES AND TUBES (INCL. RECAPPE			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
					588.91 38103202 521508	Automotive Expenses			
				SOUTHERN TIRE MART, LLC	6100033398	06/04/2021 22100395	061621ap		1,514.38
	Invoice: 6100033398					TIRES AND TUBES (INCL. RECAPPE			
					1,007.58 10003171 521528	Tires			
					506.80 38103202 521508	Automotive Expenses			
				SOUTHERN TIRE MART, LLC	6130046519	06/11/2021 22100395	061621ap		289.96
	Invoice: 6130046519					TIRES AND TUBES (INCL. RECAPPE			
					194.56 38103202 521508	Automotive Expenses			
					95.40 40003210 521508	Automotive Expenses			
						CHECK	136352 TOTAL:		2,940.18
136353	06/16/2021	PRTD	1944	STANDARD PRINTING COMPANY INC	263263	05/24/2021 22100185	061621ap		893.92
	Invoice: 263263					PRINT AND MAIL SERVICES FOR UT			
					286.05 40003230 520037	Professional Services General			
					286.05 40013230 520037	Professional Services General			
					321.82 40053205 523021	Public Education			
				STANDARD PRINTING COMPANY INC	263308	05/28/2021 22100185	061621ap		357.78
	Invoice: 263308					PRINT AND MAIL SERVICES FOR UT			
					109.69 40003230 520037	Professional Services General			
					109.69 40013230 520037	Professional Services General			
					138.40 40053205 523021	Public Education			
						CHECK	136353 TOTAL:		1,251.70
136354	06/16/2021	PRTD	5971	STANLEY CONSULTANTS, INC.	231370	06/05/2021 22001212	061621ap		8,930.00
	Invoice: 231370					TO #8 WATSON RD SOUTHERN TO MC			
					8,930.00 50213170 543075	Rdwy Imrp-Watson-85 toSouthern			
				STANLEY CONSULTANTS, INC.	231367	06/05/2021 22100819	061621ap		106,840.00
	Invoice: 231367					TO #9 PREPARE FINAL CONSTRUCTION DOCUMENTS			
					106,840.00 50213170 543073	Durango St - Miller to Yuma			
				STANLEY CONSULTANTS, INC.	231386	06/05/2021 22101118	061621ap		3,621.13
	Invoice: 231386					TO #10 2nd St & CENTRE SEWER LINE			
					3,621.13 40011113 543135	Sewer Line 2nd St-Centre Rehab			
						CHECK	136354 TOTAL:		119,391.13
136355	06/16/2021	PRTD	1012	STEPPIN' OUT PERFORMING ARTS	Sp621C	05/24/2021 22100481	061621ap		700.00
	Invoice: Sp621C					Special Interest Class Instruc			
					700.00 10004160 520013	Contract Instruc-SIC			
				STEPPIN' OUT PERFORMING ARTS	Sp621B	05/24/2021 22100996	061621ap		4,865.00
	Invoice: Sp621B					Special interest classes-dance and gymnastics			
					4,865.00 10004160 520013	Contract Instruc-SIC			

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CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136355 TOTAL:	5,565.00
136356	06/16/2021	PRTD	6622	SUNRISE ENGINEERING INC	0117791	06/02/2021	22100585	061621ap	22,230.00
	Invoice: 0117791					ENGINEERING SERVICES, PROFESSI			
					22,230.00 10005185 520006	Engineering Services			
							CHECK	136356 TOTAL:	22,230.00
136357	06/16/2021	PRTD	1976	SUTPHEN CORPORATION	40048231	05/21/2021	22100143	061621ap	94.99
	Invoice: 40048231					AUTOMOTIVE ACCESSORIES FOR AUT			
					94.99 10003171 522155	Operational Supplies			
							CHECK	136357 TOTAL:	94.99
136358	06/16/2021	PRTD	6738	TERRY'S PEST CONTROL, LLC	02111222	06/10/2021	22100637	061621ap	220.00
	Invoice: 02111222					PESTICIDES AND CHEMICALS: AGRI			
					70.00 40003210 520037	Professional Services General			
					150.00 40013220 520037	Professional Services General			
				TERRY'S PEST CONTROL, LLC	02111223	06/10/2021	22100637	061621ap	105.00
	Invoice: 02111223					PESTICIDES AND CHEMICALS: AGRI			
					105.00 40003210 520037	Professional Services General			
							CHECK	136358 TOTAL:	325.00
136359	06/16/2021	PRTD	2029	U.S. PAYMENTS, LLC	023314	05/31/2021	22100458	061621ap	1,971.87
	Invoice: 023314					KIOSK SERVICES FOR UTILITY BIL			
					631.00 40003230 520037	Professional Services General			
					631.00 40013230 520037	Professional Services General			
					709.87 40053230 520037	Professional Services General			
							CHECK	136359 TOTAL:	1,971.87
136360	06/16/2021	PRTD	2038	UNITED FIRE EQUIPMENT	743420	06/09/2021	22101029	061621ap	97,181.90
	Invoice: 743420					FIRE PROTECTION EQUIPMENT AND SUPPLIES			
					97,181.90 10002140 522150	Personal Protective Equipment			
				UNITED FIRE EQUIPMENT	745885	06/09/2021	22101215	061621ap	16,609.36
	Invoice: 745885					FIRE HOSES			
					16,609.36 10002140 521520	Small Tools<$5,000			
							CHECK	136360 TOTAL:	113,791.26

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136361	06/16/2021	PRTD	6216	UNIVERSITY OF ARIZONA	1871	05/17/2021	22101220	061621ap	3,063.82
Invoice: 1871						BUCKEYE WATER FESTIVAL			
					3,063.82 40003210 523035	Water Conservation			
						CHECK	136361 TOTAL:		3,063.82
136362	06/16/2021	PRTD	6095	VARGYAS NETWORKS, INC	1000233180	06/14/2021	22101265	061621ap	9,089.23
Invoice: 1000233180						RADIO EQUIPMENT			
					9,089.23 40001113 543128	9 Monopoles			
				VARGYAS NETWORKS, INC	1000233171	06/14/2021	22101265	061621ap	11,563.16
Invoice: 1000233171						RADIO EQUIPMENT			
					11,563.16 40001113 543128	9 Monopoles			
						CHECK	136362 TOTAL:		20,652.39
136363	06/16/2021	PRTD	2071	W.W. GRAINGER, INC	9920273175	06/02/2021	22100615	061621ap	56.48
Invoice: 9920273175						MAINTENANCE DEPT: OPEN PO FOR PARTS AND MATERIALS			
					56.48 40003231 521512	Parts/Materials			
				W.W. GRAINGER, INC	9920273167	06/02/2021	22100615	061621ap	1,404.10
Invoice: 9920273167						MAINTENANCE DEPT: OPEN PO FOR PARTS AND MATERIALS			
					1,404.10 40003231 521512	Parts/Materials			
				W.W. GRAINGER, INC	9931949219	06/14/2021	22100615	061621ap	2,252.83
Invoice: 9931949219						MAINTENANCE DEPT: OPEN PO FOR			
					2,252.83 40003231 521512	Parts/Materials			
						CHECK	136363 TOTAL:		3,713.41
136364	06/16/2021	PRTD	6011	WESTERN ENVIRONMENTAL EQUIPMENT C	W6678	06/11/2021	22100715	061621ap	1,050.00
Invoice: W6678						SIGNATURE LASERFLOW METER FOR			
					1,050.00 40013221 541070	Other Equipment >$5,000			
						CHECK	136364 TOTAL:		1,050.00
136365	06/16/2021	PRTD	6413	WILDLIFE WORLD ZOO & AQUARIUM	06112021	06/11/2021	22101293	061621ap	436.00
Invoice: 06112021						Summer 2021 youth program field trips			
					436.00 10004153 520015	Contractual Svc BASE			
						CHECK	136365 TOTAL:		436.00

NUMBER OF CHECKS 105 *** CASH ACCOUNT TOTAL *** 8,266,908.66

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	105	8,266,908.66

*** GRAND TOTAL *** 8,266,908.66

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL / SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021 12 706									
APP 1000-201000					Accounts Payable			527,490.09	
06/16/2021	061621ap	ap0616			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				8,266,908.66
06/16/2021	061621ap	ap0616			AP CASH DISBURSEMENTS JOURNAL				
APP 4000-201000					Accounts Payable			6,153,509.69	
06/16/2021	061621ap	ap0616			AP CASH DISBURSEMENTS JOURNAL				
APP 4001-201000					Accounts Payable			435,992.98	
06/16/2021	061621ap	ap0616			AP CASH DISBURSEMENTS JOURNAL				
APP 3810-201000					Accounts Payable			241,269.55	
06/16/2021	061621ap	ap0616			AP CASH DISBURSEMENTS JOURNAL				
APP 5021-201000					Accounts Payable			900,188.14	
06/16/2021	061621ap	ap0616			AP CASH DISBURSEMENTS JOURNAL				
APP 4011-201000					Accounts Payable			4,304.74	
06/16/2021	061621ap	ap0616			AP CASH DISBURSEMENTS JOURNAL				
APP 3575-201000					Accounts Payable			2,115.60	
06/16/2021	061621ap	ap0616			AP CASH DISBURSEMENTS JOURNAL				
APP 4010-201000					Accounts Payable			867.78	
06/16/2021	061621ap	ap0616			AP CASH DISBURSEMENTS JOURNAL				
APP 4005-201000					Accounts Payable			1,170.09	
06/16/2021	061621ap	ap0616			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			8,266,908.66	8,266,908.66
APP 9999-201010					DT DF			8,266,908.66	
06/16/2021	061621ap	ap0616							
APP 1000-101010					Pooled Cash Equity				527,490.09
06/16/2021	061621ap	ap0616							
APP 4000-101010					Pooled Cash Equity				6,153,509.69
06/16/2021	061621ap	ap0616							
APP 4001-101010					Pooled Cash Equity				435,992.98
06/16/2021	061621ap	ap0616							
APP 3810-101010					Pooled Cash Equity				241,269.55
06/16/2021	061621ap	ap0616							
APP 5021-101010					Pooled Cash Equity				900,188.14
06/16/2021	061621ap	ap0616							
APP 4011-101010					Pooled Cash Equity				4,304.74
06/16/2021	061621ap	ap0616							
APP 3575-101010					Pooled Cash Equity				2,115.60
06/16/2021	061621ap	ap0616							
APP 4010-101010					Pooled Cash Equity				867.78
06/16/2021	061621ap	ap0616							
APP 4005-101010					Pooled Cash Equity				1,170.09
06/16/2021	061621ap	ap0616							
					SYSTEM GENERATED ENTRIES TOTAL			8,266,908.66	8,266,908.66

JOURNAL ENTRIES TO BE CREATED

YEAR PER JNL SRC ACCOUNT	EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
JOURNAL 2021/12/706							TOTAL		16,533,817.32	16,533,817.32

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2021 12	706	06/16/2021			
1000-101010			Pooled Cash Equity			527,490.09
1000-201000			Accounts Payable		527,490.09	
				FUND TOTAL	527,490.09	527,490.09
3575 Area Agency on Aging	2021 12	706	06/16/2021			
3575-101010			Pooled Cash Equity			2,115.60
3575-201000			Accounts Payable		2,115.60	
				FUND TOTAL	2,115.60	2,115.60
3810 Highway User Revenue Fund	2021 12	706	06/16/2021			
3810-101010			Pooled Cash Equity			241,269.55
3810-201000			Accounts Payable		241,269.55	
				FUND TOTAL	241,269.55	241,269.55
4000 Water Utility Fund	2021 12	706	06/16/2021			
4000-101010			Pooled Cash Equity			6,153,509.69
4000-201000			Accounts Payable		6,153,509.69	
				FUND TOTAL	6,153,509.69	6,153,509.69
4001 Wastewater Fund	2021 12	706	06/16/2021			
4001-101010			Pooled Cash Equity			435,992.98
4001-201000			Accounts Payable		435,992.98	
				FUND TOTAL	435,992.98	435,992.98
4005 Environmental Services	2021 12	706	06/16/2021			
4005-101010			Pooled Cash Equity			1,170.09
4005-201000			Accounts Payable		1,170.09	
				FUND TOTAL	1,170.09	1,170.09
4010 Airport Fund	2021 12	706	06/16/2021			
4010-101010			Pooled Cash Equity			867.78
4010-201000			Accounts Payable		867.78	
				FUND TOTAL	867.78	867.78
4011 Airport Improvement Fund	2021 12	706	06/16/2021			
4011-101010			Pooled Cash Equity			4,304.74
4011-201000			Accounts Payable		4,304.74	
				FUND TOTAL	4,304.74	4,304.74
5021 CIP General	2021 12	706	06/16/2021			

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
5021-101010			Pooled Cash Equity			900,188.14
5021-201000			Accounts Payable		900,188.14	
				FUND TOTAL	900,188.14	900,188.14
9999 Pooled Cash	2021 12	706	06/16/2021			
9999-104000			Cash in Bank - Checking			8,266,908.66
9999-201010			DT DF		8,266,908.66	
				FUND TOTAL	8,266,908.66	8,266,908.66

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
1000	General Fund		527,490.09
3575	Area Agency on Aging		2,115.60
3810	Highway User Revenue Fund		241,269.55
4000	Water Utility Fund		6,153,509.69
4001	Wastewater Fund		435,992.98
4005	Environmental Services		1,170.09
4010	Airport Fund		867.78
4011	Airport Improvement Fund		4,304.74
5021	CIP General		900,188.14
9999	Pooled Cash	8,266,908.66	
	TOTAL	8,266,908.66	8,266,908.66

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136409	06/23/2021	PRTD	5566	ACRO SERVICE CORPORATION	1271140	03/28/2021	22100256	062321ap	1,527.60
	Invoice: 1271140					ENGINEERING SERVICES, PROFESSI			
					1,527.60 10005185 520037	Professional Services General			
				ACRO SERVICE CORPORATION	1339232	06/06/2021	22100256	062321ap	1,527.60
	Invoice: 1339232					ENGINEERING SERVICES, PROFESSI			
					1,527.60 10005185 520037	Professional Services General			
				ACRO SERVICE CORPORATION	1345669	06/13/2021	22100256	062321ap	1,527.60
	Invoice: 1345669					ENGINEERING SERVICES, PROFESSI			
					1,527.60 10005185 520037	Professional Services General			
				ACRO SERVICE CORPORATION	1346251	06/13/2021	22100055	062321ap	743.20
	Invoice: 1346251					Temporary Labor for Water Admi			
					371.60 40003210 520037	Professional Services General			
					371.60 40013220 520037	Professional Services General			
						CHECK 136409 TOTAL:			5,326.00
136410	06/23/2021	PRTD	5141	ANDREWS REFRIGERATION INC	115810	04/06/2021	22100261	062321ap	119.00
	Invoice: 115810					FY 20/21 - SUNDANCE HVAC & PLU			
					119.00 10003176 520512	Building Repairs			
						CHECK 136410 TOTAL:			119.00
136411	06/23/2021	PRTD	5141	ANDREWS REFRIGERATION	116545	05/21/2021	22101143	062321ap	8,730.42
	Invoice: 116545					PARKS - INSTALL EVAP COOLER			
					8,730.42 10003172 541070	Other Equipment >$5,000			
						CHECK 136411 TOTAL:			8,730.42
136412	06/23/2021	PRTD	1095	ANTHONY'S BACKFLOW INC	128-21	06/06/2021	22100125	062321ap	108.00
	Invoice: 128-21					FY 20/21 - CITYWIDE ANNUAL BAC			
					108.00 10003172 520037	Professional Services General			
				ANTHONY'S BACKFLOW INC	091-21	04/25/2021	22100125	062321ap	63.00
	Invoice: 091-21					FY 20/21 - CITYWIDE ANNUAL BAC			
					63.00 10003172 520037	Professional Services General			
				ANTHONY'S BACKFLOW INC	BF TESTING 06/2021	06/21/2021	22100405	062321ap	32.00
	Invoice: BF TESTING 06/2021					ANNUAL BACKFLOW TESTING AT WAT			
					32.00 40003218 520577	Reservoir/Booster Maint/Repair			
				ANTHONY'S BACKFLOW INC	092-21	04/25/2021	22100405	062321ap	33.00
	Invoice: 092-21					ANNUAL BACKFLOW TESTING AT WAT			
					33.00 40003218 520577	Reservoir/Booster Maint/Repair			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136412 TOTAL:	236.00
136413	06/23/2021	PRTD	1103	AQUATIC ENVIRONMENTAL SYSTEMS	IN49853	06/02/2021	22100663	062321ap	2,648.01
Invoice: IN49853						CITY POOL CHEMICALS			
					2,648.01 10003172 521540	Chemicals			
							CHECK	136413 TOTAL:	2,648.01
136414	06/23/2021	PRTD	1104	ARAMARK UNIFORM & CAREER APPAREL	473000253622	06/10/2021	22100378	062321ap	643.54
Invoice: 473000253622						CLOTHING: ATHLETIC, CASUAL, DR			
					339.47 40003210 521922	Uniforms			
					304.07 40013220 521922	Uniforms			
							CHECK	136414 TOTAL:	643.54
136415	06/23/2021	PRTD	6324	ARIZONA SCIENCE CENTER	1495317	06/09/2021	22101291	062321ap	1,789.75
Invoice: 1495317						Summer 2021 youth programs field trips			
					1,789.75 10004153 520015	Contractual Svc BASE			
				ARIZONA SCIENCE CENTER	1495321	06/03/2021	22101291	062321ap	1,117.50
Invoice: 1495321						Summer 2021 youth programs field trips			
					1,117.50 10004153 520015	Contractual Svc BASE			
							CHECK	136415 TOTAL:	2,907.25
136416	06/23/2021	PRTD	6883	AUTOCLEAR LLC	0621M119134	06/16/2021	22101344	062321ap	22,065.90
Invoice: 0621M119134						X-Ray machine for Court lobby & extended warranty			
					22,065.90 10002120 541070	Other Equipment >$5,000			
							CHECK	136416 TOTAL:	22,065.90
136417	06/23/2021	PRTD	6848	AZ ENERGY ELITE ALLSTARS LLC	061621	06/15/2021	22101186	062321ap	1,600.00
Invoice: 061621						SIC gymnastics classes			
					1,600.00 10004160 520013	Contract Instruc-SIC			
							CHECK	136417 TOTAL:	1,600.00
136418	06/23/2021	PRTD	1165	ARIZONA GLOVE & SAFETY	7546222	06/16/2021	22100060	062321ap	181.36
Invoice: 7546222						SAFETY EQUIPMENT			
					181.36 40003212 522152	Safety Equipment			
							CHECK	136418 TOTAL:	181.36

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136419	06/23/2021	PRTD	6548	BADGER METER INC	1437418	05/27/2021	22100552	062321ap	49,594.88
	Invoice: 1437418				TO PURCHASE SMALL AND LARGE WA				
					49,594.88 40003351 520575 Water Meters R & M				
				BADGER METER INC	1437416	05/27/2021	22100552	062321ap	49,594.88
	Invoice: 1437416				TO PURCHASE SMALL AND LARGE WA				
					49,594.88 40003351 520575 Water Meters R & M				
				BADGER METER INC	1437417	05/27/2021	22101353	062321ap	49,594.88
	Invoice: 1437417				PURCHASE OF WATER METERS FOR PROJECTS				
					49,594.88 40003351 520575 Water Meters R & M				
				BADGER METER INC	1436468	05/24/2021	22100552	062321ap	37,162.00
	Invoice: 1436468				TO PURCHASE SMALL AND LARGE WA				
					37,162.00 40003351 520575 Water Meters R & M				
								CHECK 136419 TOTAL:	185,946.64
136420	06/23/2021	PRTD	1193	BAKER & TAYLOR	2035949181	05/25/2021	22100876	062321ap	78.12
	Invoice: 2035949181				Open PO for Library Materials				
					78.12 10004151 521550 Library Materials				
				BAKER & TAYLOR	2035994352	06/11/2021	22100876	062321ap	194.44
	Invoice: 2035994352				Open PO for Library Materials				
					194.44 10004151 521550 Library Materials				
				BAKER & TAYLOR	2035994353	06/11/2021	22100876	062321ap	40.46
	Invoice: 2035994353				Open PO for Library Materials				
					40.46 10004151 521550 Library Materials				
				BAKER & TAYLOR	2035994354	06/11/2021	22100876	062321ap	13.76
	Invoice: 2035994354				Open PO for Library Materials				
					13.76 10004151 521550 Library Materials				
				BAKER & TAYLOR	2035994355	06/11/2021	22100876	062321ap	9.06
	Invoice: 2035994355				Open PO for Library Materials				
					9.06 10004151 521550 Library Materials				
				BAKER & TAYLOR	2035994356	06/11/2021	22100876	062321ap	93.26
	Invoice: 2035994356				Open PO for Library Materials				
					93.26 10004151 521550 Library Materials				
				BAKER & TAYLOR	2035994357	06/11/2021	22100876	062321ap	121.66
	Invoice: 2035994357				Open PO for Library Materials				
					121.66 10004151 521550 Library Materials				
				BAKER & TAYLOR	2035994358	06/11/2021	22100876	062321ap	119.70
	Invoice: 2035994358				Open PO for Library Materials				
					119.70 10004151 521550 Library Materials				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136420 TOTAL:	670.46
136421	06/23/2021	PRTD	6584	BOOT BARN INC	INV00111116	06/14/2021	22100111	062321ap	171.36
	Invoice: INV00111116					SHOES AND BOOTS			
					171.36 40013220 521922	Uniforms			
				BOOT BARN INC	INV00112175	06/17/2021	22100111	062321ap	537.81
	Invoice: INV00112175					SHOES AND BOOTS			
					200.00 40003210 521922	Uniforms			
					337.81 40013220 521922	Uniforms			
				BOOT BARN INC	INV00112542	06/19/2021	22100111	062321ap	146.87
	Invoice: INV00112542					SHOES AND BOOTS			
					146.87 40003210 521922	Uniforms			
							CHECK	136421 TOTAL:	856.04
136422	06/23/2021	PRTD	5696	BROWN AND ASSOCIATES	35989	05/28/2021	22100960	062321ap	9,990.00
	Invoice: 35989					CONSULTING SERVICES			
					9,990.00 10005180 520056	Inspection Services			
							CHECK	136422 TOTAL:	9,990.00
136423	06/23/2021	PRTD	1234	BROWN'S PARTSMASTER INC	128407	06/16/2021	22100127	062321ap	1,178.42
	Invoice: 128407					FY 20/21 - CITYWIDE PLUMBING S			
					1,178.42 10003172 521720	Shop Supplies			
				BROWN'S PARTSMASTER INC	128417	06/16/2021	22100126	062321ap	3,191.89
	Invoice: 128417					FY 20/21 - SUNDANCE PLUMBING S			
					3,191.89 10003176 521720	Shop Supplies			
							CHECK	136423 TOTAL:	4,370.31
136424	06/23/2021	PRTD	1248	BUCKEYE VALLEY CHAMBER OF COMMERC	1004	06/17/2021	22100237	062321ap	5,000.00
	Invoice: 1004					Buckeye Valley Chamber			
					5,000.00 10001187 520038	Contributions to Civic Orgs			
							CHECK	136424 TOTAL:	5,000.00
136425	06/23/2021	PRTD	1274	CALVERT OIL COMPANY	149179	06/14/2021		062321ap	100.34
	Invoice: 149179					GREASE			
					100.34 10003171 522155	Operational Supplies			
							CHECK	136425 TOTAL:	100.34

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136426	06/23/2021	PRTD	5629	CARDNO, INC.	529543	06/11/2021	22100855	062321ap	11,675.03
	Invoice: 529543					Professional Services - Standard & Design Update			
					11,675.03 10005185 520006	Engineering Services			
				CARDNO, INC.	529542	06/11/2021	22100456	062321ap	3,000.00
	Invoice: 529542					ENGINEERING SERVICES, PROFESSI			
					3,000.00 10005185 520037	Professional Services General			
						CHECK	136426	TOTAL:	14,675.03
136427	06/23/2021	PRTD	5029	CDW GOVERNMENT LLC	F422797	06/10/2021	22101238	062321ap	8,198.23
	Invoice: F422797					SURFACE PROs FOR LIFECYCLE			
					8,198.23 10001192 521523	Equipment <$5,000			
						CHECK	136427	TOTAL:	8,198.23
136428	06/23/2021	PRTD	1286	CENTERLINE SUPPLY	ORD0038297	06/09/2021	22100240	062321ap	5,370.28
	Invoice: ORD0038297					FY 20/21 - TRAFFIC CONTROL MAT			
					5,370.28 10001108 521534	Program Supplies Gen Rec			
						CHECK	136428	TOTAL:	5,370.28
136429	06/23/2021	PRTD	3021	CINTAS CORPORATION NO 3	4086807470	06/10/2021	22100297	062321ap	71.64
	Invoice: 4086807470					FY 20/21 - FLEET UNIFORMS			
					71.64 10003171 521922	Uniforms			
				CINTAS CORPORATION NO 3	4087495134	06/17/2021	22100297	062321ap	71.64
	Invoice: 4087495134					FY 20/21 - FLEET UNIFORMS			
					71.64 10003171 521922	Uniforms			
				CINTAS CORPORATION NO 3	4086807492	06/10/2021	22100103	062321ap	9.72
	Invoice: 4086807492					FY 20/21 - UNIFORMS OPEN PO			
					9.72 40053205 521922	Uniforms			
				CINTAS CORPORATION NO 3	4087495067	06/17/2021	22100103	062321ap	9.72
	Invoice: 4087495067					FY 20/21 - UNIFORMS OPEN PO			
					9.72 40053205 521922	Uniforms			
				CINTAS CORPORATION NO 3	4087495177	06/17/2021	22100277	062321ap	105.21
	Invoice: 4087495177					FY 20/21 - UNIFORM RENTAL			
					105.21 38103202 521922	Uniforms			
				CINTAS CORPORATION NO 3	4086807595	06/10/2021	22100277	062321ap	105.21
	Invoice: 4086807595					FY 20/21 - UNIFORM RENTAL			
					105.21 38103202 521922	Uniforms			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136429 TOTAL:	373.14
136430	06/23/2021	PRTD	1267	CNA SURETY DIRECT BILL	65537029N	06/17/2021		062321ap	50.00
Invoice: 65537029N						Bond for Emily Flores notary			
				50.00 10002121 526120		Dues and Memberships			
							CHECK	136430 TOTAL:	50.00
136431	06/23/2021	PRTD	6235	CONSULTANT ENGINEERING, INC.	00116764.01-210502S	06/02/2021	22101174	062321ap	18,175.20
Invoice: 00116764.01-210502S						Task Order No. 4 Plan Review Services			
				18,175.20 10005185 520006		Engineering Services			
							CHECK	136431 TOTAL:	18,175.20
136432	06/23/2021	PRTD	1341	CROSS LIFELINE TRAINING, INC	CLT052107	05/24/2021	22100878	062321ap	691.50
Invoice: CLT052107						EDUCATIONAL/TRAINING SERVICES			
				691.50 10004160 520013		Contract Instruc-SIC			
							CHECK	136432 TOTAL:	691.50
136433	06/23/2021	PRTD	1343	CUMMINS ROCKY MOUNTAIN, LLC	54-73296	06/04/2021	22100769	062321ap	704.93
Invoice: 54-73296						EQUIPMENT MAINTENANCE AND REPA			
				704.93 40003213 520515		Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-74617	06/11/2021	22100290	062321ap	580.50
Invoice: 54-74617						EQUIPMENT MAINTENANCE AND REPA			
				580.50 40003213 520515		Generator R & M			
							CHECK	136433 TOTAL:	1,285.43
136434	06/23/2021	PRTD	5295	DELL MARKETING L.P.	10494931512	06/11/2021	22101342	062321ap	2,183.68
Invoice: 10494931512						DESKTOPS and LAPTOPS			
				1,091.84 40003210 521521		IT Equipment <$5000			
				1,091.84 40013220 521521		IT Equipment <$5000			
				DELL MARKETING L.P.	10494638466	06/10/2021	22101342	062321ap	5,818.13
Invoice: 10494638466						DESKTOPS and LAPTOPS			
				71.64 10001192 521523		Equipment <$5,000			
				1,163.63 10002140 521521		IT Equipment <$5000			
				1,091.98 10004154 521521		IT Equipment <$5000			
				2,327.25 10005180 521521		IT Equipment <$5000			
				1,163.63 40013221 521521		IT Equipment <$5000			
							CHECK	136434 TOTAL:	8,001.81

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136435	06/23/2021	PRTD	6869	ESPARZA'S CONTAINERS	1734	05/27/2021	22101324	062321ap	7,918.00
	Invoice: 1734				Conex box for equipment and supply storage at Skyl				
				7,918.00 10004160 549999	Completed Capital				
						CHECK	136435 TOTAL:		7,918.00
136436	06/23/2021	PRTD	1426	FACTORY MOTOR PARTS CO	10-1438550	05/06/2021	22100067	062321ap	30.00
	Invoice: 10-1438550				AUTOMOTIVE AND TRAILER EQUIPME				
				30.00 10003171 522155	Operational Supplies				
				FACTORY MOTOR PARTS CO	7-3273655	05/06/2021	22100067	062321ap	12.00
	Invoice: 7-3273655				AUTOMOTIVE AND TRAILER EQUIPME				
				12.00 10003171 522155	Operational Supplies				
				FACTORY MOTOR PARTS CO	10-1438592	05/06/2021	22100067	062321ap	-24.32
	Invoice: 10-1438592				AUTOMOTIVE AND TRAILER EQUIPME				
				-24.32 10003171 522155	Operational Supplies				
				FACTORY MOTOR PARTS CO	7-3269892	05/03/2021	22100067	062321ap	419.98
	Invoice: 7-3269892				AUTOMOTIVE AND TRAILER EQUIPME				
				419.98 40003210 521508	Automotive Expenses				
				FACTORY MOTOR PARTS CO	10-1438330	05/04/2021	22100067	062321ap	296.07
	Invoice: 10-1438330				AUTOMOTIVE AND TRAILER EQUIPME				
				296.07 38103202 521508	Automotive Expenses				
				FACTORY MOTOR PARTS CO	10-1438322	05/04/2021	22100067	062321ap	280.00
	Invoice: 10-1438322				AUTOMOTIVE AND TRAILER EQUIPME				
				280.00 40003210 521508	Automotive Expenses				
				FACTORY MOTOR PARTS CO	10-1439926	05/21/2021	22100067	062321ap	389.26
	Invoice: 10-1439926				AUTOMOTIVE AND TRAILER EQUIPME				
				389.26 38103202 521508	Automotive Expenses				
						CHECK	136436 TOTAL:		1,402.99
136437	06/23/2021	PRTD	1402	EMPIRE SOUTHWEST, LLC	EMPS5294969	06/11/2021	22100223	062321ap	9,033.11
	Invoice: EMPS5294969				FY 20/21 - EQUIPMENT RENTAL				
				9,033.11 38103202 520502	Street Overlay R & M				
						CHECK	136437 TOTAL:		9,033.11
136438	06/23/2021	PRTD	1414	EWING IRRIGATION PRODUCTS INC	14479106	06/14/2021	22100082	062321ap	683.62
	Invoice: 14479106				OPEN PO - Parks irrigation				
				683.62 10004155 520586	Irrigation Systems Parts/Mater				
				EWING IRRIGATION PRODUCTS INC	14492704	06/15/2021	22100082	062321ap	2,936.49
	Invoice: 14492704				OPEN PO - Parks irrigation				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
					2,936.49 10004155 520586	Irrigation Systems Parts/Mater			
				EWING IRRIGATION PRODUCTS INC	14514222	06/17/2021	22100082	062321ap	858.51
	Invoice: 14514222					OPEN PO - Parks irrigation			
					858.51 10004155 520586	Irrigation Systems Parts/Mater			
								CHECK 136438 TOTAL:	4,478.62
136439	06/23/2021	PRTD	5751	EXECUPUNDIT CONSULTING, LLC	BUCHR02062121	06/21/2021	22100070	062321ap	247.50
	Invoice: BUCHR02062121					Open PO for Consulting			
					247.50 10001115 520037	Professional Services General			
								CHECK 136439 TOTAL:	247.50
136440	06/23/2021	PRTD	1432	FERGUSON WATERWORKS #3083	0426313	06/09/2021	22100468	062321ap	820.76
	Invoice: 0426313					PARTS FOR THE INSTALLATION AND			
					820.76 40003351 520575	Water Meters R & M			
				FERGUSON WATERWORKS #3083	0429923	06/17/2021	22100468	062321ap	7,999.81
	Invoice: 0429923					PARTS FOR THE INSTALLATION AND			
					7,999.81 40003351 520575	Water Meters R & M			
								CHECK 136440 TOTAL:	8,820.57
136441	06/23/2021	PRTD	5719	FREIGHTLINER OF ARIZONA, LLC	XA310381934:03	04/12/2021	22100262	062321ap	56.77
	Invoice: XA310381934:03					AUTOMOTIVE VEHICLES AND RELATE			
					56.77 10003171 522155	Operational Supplies			
				FREIGHTLINER OF ARIZONA, LLC	XA310400088:01	05/13/2021	22100262	062321ap	8.38
	Invoice: XA310400088:01					AUTOMOTIVE VEHICLES AND RELATE			
					8.38 10003171 522155	Operational Supplies			
								CHECK 136441 TOTAL:	65.15
136442	06/23/2021	PRTD	6551	G4S SECURE SOLUTIONS USA INC	11848789	06/13/2021	22100756	062321ap	628.02
	Invoice: 11848789					SECURITY OFFICER SERVICES CONT			
					314.01 40003210 520037	Professional Services General			
					314.01 40013220 520037	Professional Services General			
								CHECK 136442 TOTAL:	628.02
136443	06/23/2021	PRTD	5151	GORMAN COOLER SUPPLY, INC.	INV-012269	06/16/2021	22100139	062321ap	1,693.43
	Invoice: INV-012269					FY 20/21 - CITYWIDE HVAC SUPPL			
					1,693.43 10003172 522155	Operational Supplies			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136443 TOTAL:	1,693.43
136444	06/23/2021	PRTD	1486	GRAYBAR	9321942908	06/15/2021	22101296	062321ap	214.98
	Invoice: 9321942908					EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR GENE			
					214.98 40003231 521512	Parts/Materials			
				GRAYBAR	9321872561	06/09/2021	22101296	062321ap	32,736.71
	Invoice: 9321872561					EQUIPMENT MAINTENANCE AND REPAIR SERVICES FOR GENE			
					32,736.71 40003231 521512	Parts/Materials			
							CHECK	136444 TOTAL:	32,951.69
136445	06/23/2021	PRTD	1016	HAYDON BUILDING CORP	8457	06/04/2021	22101281	062321ap	68,860.00
	Invoice: 8457					DO #1 REMOVE & REPLACE IRRIG BOXES & SCREW GATES			
					68,860.00 40003211 520586	Irrigation Systems Parts/Mater			
							CHECK	136445 TOTAL:	68,860.00
136446	06/23/2021	PRTD	1491	USA BLUE BOOK	626530	06/08/2021	22101340	062321ap	2,849.25
	Invoice: 626530					sundance turbidity replacement			
					2,849.25 40013222 520543	WW R&M			
							CHECK	136446 TOTAL:	2,849.25
136447	06/23/2021	PRTD	5180	HDR ENGINEERING, INC	1200351784	06/02/2021	22100998	062321ap	62,274.52
	Invoice: 1200351784					TO #8 DESING AIRPORT WATER MAINS			
					62,274.52 40001113 543042	Waterline at Airport			
				HDR ENGINEERING, INC	1200355194	06/16/2021	22100758	062321ap	12,403.75
	Invoice: 1200355194					ENGINEERING SERVICES, PROFESSI			
					12,403.75 10005185 520006	Engineering Services			
							CHECK	136447 TOTAL:	74,678.27
136448	06/23/2021	PRTD	1513	HILL BROTHERS CHEMICAL COMPANY	4482500	11/12/2020	22100043	062321ap	238.92
	Invoice: 4482500					CHEMICALS TO TREAT AND DISINFE			
					238.92 40003217 521540	Chemicals			
							CHECK	136448 TOTAL:	238.92
136449	06/23/2021	PRTD	1513	HILL BROTHERS CHEMICAL COMPANY	07088103	06/17/2021	22100066	062321ap	8,514.24
	Invoice: 07088103					WASTEWATER TREATING CHEMICALS			
					8,514.24 40013222 521540	Chemicals			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136449 TOTAL:	8,514.24
136450	06/23/2021	PRTD	1522	HUGHES FIRE EQUIPMENT INC	564875	06/21/2021	22100118	062321ap	92.54
Invoice: 564875					AUTOMOTIVE ACCESSORIES FOR AUT				
				92.54 10003171 522155	Operational Supplies				
							CHECK	136450 TOTAL:	92.54
136451	06/23/2021	PRTD	3051	JOHNSON CONTROLS INC	1-105385535021	06/18/2021	22100306	062321ap	9,567.21
Invoice: 1-105385535021					AC MAINTENANCE, REPAIR & REPLA				
				1,246.95 40003212 520577	Reservoir/Booster Maint/Repair				
				2,211.28 40003213 520577	Reservoir/Booster Maint/Repair				
				1,100.25 40003214 520577	Reservoir/Booster Maint/Repair				
				733.50 40003215 520577	Reservoir/Booster Maint/Repair				
				220.05 40003216 520577	Reservoir/Booster Maint/Repair				
				146.70 40003217 520577	Reservoir/Booster Maint/Repair				
				3,908.48 40003218 520577	Reservoir/Booster Maint/Repair				
							CHECK	136451 TOTAL:	9,567.21
136452	06/23/2021	PRTD	1596	KENCO OR	SI#201752	05/18/2021	22100115	062321ap	593.23
Invoice: SI#201752					AUTOMOTIVE ACCESSORIES FOR AUT				
				593.23 38103202 521508	Automotive Expenses				
							CHECK	136452 TOTAL:	593.23
136453	06/23/2021	PRTD	1596	LSH LIGHTS	SI#201754	05/19/2021	22100918	062321ap	739.27
Invoice: SI#201754					AUTOMOTIVE ACCESSORIES FOR AUTOMOBILES, BUSES, TRA				
				739.27 40013220 541210	Automobiles				
				LSH LIGHTS	SI#201755	05/19/2021	22100918	062321ap	739.27
Invoice: SI#201755					AUTOMOTIVE ACCESSORIES FOR AUTOMOBILES, BUSES, TRA				
				739.27 40003210 541210	Automobiles				
							CHECK	136453 TOTAL:	1,478.54
136454	06/23/2021	PRTD	1605	LAYER 8, LLC	1618	06/06/2021	22101351	062321ap	40,000.00
Invoice: 1618					IT OPERATIONAL SUPPORT - 2020,21 - 6				
				40,000.00 10001189 520018	General Contractual Services				
							CHECK	136454 TOTAL:	40,000.00
136455	06/23/2021	PRTD	6008	LIL RED WAGON SERVICES, INC.	2214	04/02/2021	22101311	062321ap	2,007.50
Invoice: 2214					WELDING SERVICES				
				2,007.50 40013222 520543	WW R&M				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136455 TOTAL:	2,007.50
136456	06/23/2021	PRTD	6615	LOGAN SIMPSON DESIGN INC.	27828	05/31/2021	22100006	062321ap	24,480.64
	Invoice: 27828					CONSULTING SERVICES			
					24,480.64 10005180 520037	Professional Services General			
							CHECK	136456 TOTAL:	24,480.64
136457	06/23/2021	PRTD	1621	LOGICALIS, INC	IN198757	06/15/2021	22101160	062321ap	18,422.42
	Invoice: IN198757					COYOTE LIBRARY AV SYSTEM REFRESH			
					15,080.88 10001192 521523	Equipment <$5,000			
					3,341.54 10004151 521521	IT Equipment <$5000			
				LOGICALIS, INC	S120144	06/15/2021	22101160	062321ap	14,727.00
	Invoice: S120144					COYOTE LIBRARY AV SYSTEM REFRESH			
					12,055.74 10001192 521523	Equipment <$5,000			
					2,671.26 10004151 521521	IT Equipment <$5000			
				LOGICALIS, INC	IN198828	06/17/2021	22101160	062321ap	839.14
	Invoice: IN198828					COYOTE LIBRARY AV SYSTEM REFRESH			
					686.94 10001192 521523	Equipment <$5,000			
					152.20 10004151 521521	IT Equipment <$5000			
							CHECK	136457 TOTAL:	33,988.56
136458	06/23/2021	PRTD	6882	LOOSE END EMBROIDERY	12228	06/21/2021	22101346	062321ap	248.80
	Invoice: 12228					CLOTHING: ATHLETIC, CASUAL, DRESS, UNIFORM, WEATHE			
					124.40 40003210 521922	Uniforms			
					124.40 40013220 521922	Uniforms			
							CHECK	136458 TOTAL:	248.80
136459	06/23/2021	PRTD	6874	MAIN EVENT ENTERTAINMENT	471983-1	06/22/2021	22101310	062321ap	1,283.26
	Invoice: 471983-1					Summer 2021 youth programs field trips			
					1,283.26 10004153 520015	Contractual Svc BASE			
							CHECK	136459 TOTAL:	1,283.26
136460	06/23/2021	PRTD	5573	PROMOTIONS WITH PERSONALITY	1773	06/16/2021	22100540	062321ap	437.00
	Invoice: 1773					Volunteer Shirts for BYC			
					437.00 10001103 521720	Shop Supplies			
							CHECK	136460 TOTAL:	437.00

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136461	06/23/2021	PRTD	5018	METRO FIRE EQUIPMENT INC	IN00321978	06/15/2021	22100109	062321ap	2,745.00
Invoice: IN00321978					ANNUAL FIRE SYSTEM INSPECTION				
				2,745.00 40013224 520543	WW R&M				
							CHECK	136461 TOTAL:	2,745.00
136462	06/23/2021	PRTD	6887	O&G CONSTRUCTION LLC	6513	06/09/2021	22101362	062321ap	14,796.00
Invoice: 6513					Heritage Park Gate				
				14,796.00 10004155 549999	Completed Capital				
							CHECK	136462 TOTAL:	14,796.00
136463	06/23/2021	PRTD	1736	O'REILLY AUTO PARTS	053121	05/31/2021	22100349	062321ap	2,704.24
Invoice: 053121					AUTOMOTIVE AND TRAILER EQUIPME				
				2,180.75 10003171 522155	Operational Supplies				
				402.64 38103202 521508	Automotive Expenses				
				120.85 40013220 521508	Automotive Expenses				
							CHECK	136463 TOTAL:	2,704.24
136464	06/23/2021	PRTD	5338	OVERDRIVE, INC	03880CO21259463	06/11/2021	22101045	062321ap	626.43
Invoice: 03880CO21259463					Open PO for e-Books				
				626.43 10004151 521550	Library Materials				
				OVERDRIVE, INC	03880CO21259496	06/11/2021	22101045	062321ap	315.21
Invoice: 03880CO21259496					Open PO for e-Books				
				315.21 10004151 521550	Library Materials				
				OVERDRIVE, INC	03880CO21265101	06/17/2021	22101341	062321ap	2,951.71
Invoice: 03880CO21265101					Open PO for eBooks				
				2,951.71 10004151 521550	Library Materials				
				OVERDRIVE, INC	03880DA21263152	06/15/2021	22101045	062321ap	45.49
Invoice: 03880DA21263152					Open PO for e-Books				
				45.49 10004151 521550	Library Materials				
				OVERDRIVE, INC	03880CO21264340	06/16/2021	22101341	062321ap	4,083.97
Invoice: 03880CO21264340					Open PO for eBooks				
				4,083.97 10004151 521550	Library Materials				
							CHECK	136464 TOTAL:	8,022.81
136465	06/23/2021	PRTD	5274	PACTEC, INC	0144110-IN	05/04/2021	22101320	062321ap	4,352.32
Invoice: 0144110-IN					CENTRAL AND SUNDANCE WASTEWATER BIN LINERS				
				352.32 40013221 520540	Wastewater Plant R & M				
				3,000.00 40013221 520542	Sludge Removal				
				1,000.00 40013222 520542	Sludge Removal				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
				PACTEC, INC	0144110-X	05/04/2021	22101325	062321ap	4,352.32
	Invoice: 0144110-X					BIN LINERS FOR TARTESSO AND FESTIVAL			
					1,584.88 40013223 520542	Sludge Removal			
					304.47 40013223 520543	WW R&M			
					2,462.97 40013224 520542	Sludge Removal			
						CHECK	136465 TOTAL:		8,704.64
136466	06/23/2021	PRTD	5513	PARTS MART INC.	771784	04/15/2020	22100348	062321ap	350.39
	Invoice: 771784					AUTOMOTIVE AND TRAILER EQUIPME			
					350.39 10003171 522155	Operational Supplies			
						CHECK	136466 TOTAL:		350.39
136467	06/23/2021	PRTD	5513	PARTS MART	854508P	06/11/2021	22100348	062321ap	40.22
	Invoice: 854508P					AUTOMOTIVE AND TRAILER EQUIPME			
					40.22 10003171 522155	Operational Supplies			
				PARTS MART	855234P	06/15/2021	22100348	062321ap	134.16
	Invoice: 855234P					AUTOMOTIVE AND TRAILER EQUIPME			
					134.16 10003171 522155	Operational Supplies			
				PARTS MART	720148	04/08/2019	22100348	062321ap	640.79
	Invoice: 720148					AUTOMOTIVE AND TRAILER EQUIPME			
					640.79 10003171 522155	Operational Supplies			
				PARTS MART	720344	04/09/2019	22100348	062321ap	94.56
	Invoice: 720344					AUTOMOTIVE AND TRAILER EQUIPME			
					94.56 10003171 522155	Operational Supplies			
				PARTS MART	831780P	02/19/2021	22100348	062321ap	370.39
	Invoice: 831780P					AUTOMOTIVE AND TRAILER EQUIPME			
					370.39 10003171 522155	Operational Supplies			
				PARTS MART	816122P	11/25/2020	22100348	062321ap	152.56
	Invoice: 816122P					AUTOMOTIVE AND TRAILER EQUIPME			
					152.56 10003171 522155	Operational Supplies			
				PARTS MART	837329P	04/06/2021	22100348	062321ap	479.70
	Invoice: 837329P					AUTOMOTIVE AND TRAILER EQUIPME			
					479.70 10003171 522155	Operational Supplies			
						CHECK	136467 TOTAL:		1,912.38
136468	06/23/2021	PRTD	3024	PBC PHOENIX INC	516687	06/08/2021	22100174	062321ap	720.00
	Invoice: 516687					FY 20/21 - CITYWIDE CUSTODIAL			
					720.00 10003172 520019	Custodial Contract			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136468 TOTAL:	720.00
136469	06/23/2021	PRTD	6889	PUBLIC SAFETY CRISIS SOLUTIONS LL	4334	06/15/2021		062321ap	720.00
	Invoice: 4334					Traumatic event Service			
					720.00 10001115 520037	Professional Services General			
				PUBLIC SAFETY CRISIS SOLUTIONS LL	4354	06/17/2021		062321ap	720.00
	Invoice: 4354					Traumatic Event Service			
					720.00 10001115 520037	Professional Services General			
				PUBLIC SAFETY CRISIS SOLUTIONS LL	4261	05/19/2021		062321ap	230.00
	Invoice: 4261					Traumatic Event Service			
					230.00 10001115 520037	Professional Services General			
							CHECK	136469 TOTAL:	1,670.00
136470	06/23/2021	PRTD	1805	PURCELL TIRE COMPANY	60258983	06/14/2021	22100263	062321ap	640.86
	Invoice: 60258983					TIRES AND TUBES (INCL. RECAPPE			
					640.86 10003171 521528	Tires			
							CHECK	136470 TOTAL:	640.86
136471	06/23/2021	PRTD	6389	REXEL USA	S130561605.001	06/18/2021	22100322	062321ap	13,692.69
	Invoice: S130561605.001					FY 20/21 - STREET LIGHT MAINTE			
					13,692.69 38103202 520503	Street Lighting O & M			
				REXEL USA	S130561605.003	06/18/2021	22100322	062321ap	10,166.15
	Invoice: S130561605.003					FY 20/21 - STREET LIGHT MAINTE			
					10,166.15 38103202 520503	Street Lighting O & M			
							CHECK	136471 TOTAL:	23,858.84
136472	06/23/2021	PRTD	1842	ROADWAY ELECTRIC LLC	61	06/21/2021	22101319	062321ap	1,047.00
	Invoice: 61					INTERSECTION NETWORK CONNECTIVITY			
					1,047.00 10001189 520037	Professional Services General			
							CHECK	136472 TOTAL:	1,047.00
136473	06/23/2021	PRTD	1847	RODEO FORD INC	471622	03/30/2021	22100433	062321ap	574.07
	Invoice: 471622					AUTOMOTIVE AND TRAILER EQUIPME			
					574.07 10003171 520505	Vehicle & Equipment Repair			
				RODEO FORD INC	151901	06/15/2021	22100433	062321ap	75.86
	Invoice: 151901					AUTOMOTIVE AND TRAILER EQUIPME			
					75.86 40003210 521508	Automotive Expenses			
				RODEO FORD INC	151694	06/09/2021	22100433	062321ap	40.29

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
Invoice: 151694						AUTOMOTIVE AND TRAILER EQUIPME			
					40.29 40003210 521508	Automotive Expenses			
				RODEO FORD INC	151394	06/03/2021	22100433	062321ap	96.57
Invoice: 151394						AUTOMOTIVE AND TRAILER EQUIPME			
					96.57 10003171 522155	Operational Supplies			
				RODEO FORD INC	151392	06/03/2021	22100433	062321ap	95.42
Invoice: 151392						AUTOMOTIVE AND TRAILER EQUIPME			
					95.42 10003171 522155	Operational Supplies			
				RODEO FORD INC	148669	04/07/2021	22100433	062321ap	40.57
Invoice: 148669						AUTOMOTIVE AND TRAILER EQUIPME			
					40.57 10003171 522155	Operational Supplies			
				RODEO FORD INC	151408	06/07/2021	22100433	062321ap	153.65
Invoice: 151408						AUTOMOTIVE AND TRAILER EQUIPME			
					153.65 10003171 522155	Operational Supplies			
				RODEO FORD INC	151381	06/02/2021	22100433	062321ap	4.40
Invoice: 151381						AUTOMOTIVE AND TRAILER EQUIPME			
					4.40 10003171 522155	Operational Supplies			
				RODEO FORD INC	151143	05/27/2021	22100433	062321ap	193.51
Invoice: 151143						AUTOMOTIVE AND TRAILER EQUIPME			
					193.51 10003171 522155	Operational Supplies			
								CHECK 136473 TOTAL:	1,274.34
136474	06/23/2021	PRTD	5310	SANDS CHEVROLET, LLC	568028	06/14/2021	22100278	062321ap	89.95
Invoice: 568028						AUTOMOTIVE AND TRAILER EQUIPME			
					89.95 10003171 520505	Vehicle & Equipment Repair			
								CHECK 136474 TOTAL:	89.95
136475	06/23/2021	PRTD	1881	SECRETARY OF STATE	E. Flores	06/17/2021		062321ap	43.00
Invoice: E. Flores						Notary Application for Emily Flores			
					43.00 10002121 526120	Dues and Memberships			
								CHECK 136475 TOTAL:	43.00
136476	06/23/2021	PRTD	1902	SHRED-IT USA LLC	8182112797	05/31/2021	22100184	062321ap	90.37
Invoice: 8182112797						SECURED SHRED FOR UTILITY BILL			
					28.92 40003230 520037	Professional Services General			
					28.92 40013230 520037	Professional Services General			
					32.53 40053230 520037	Professional Services General			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK 136476 TOTAL:		90.37
136477	06/23/2021	PRTD	5324	SHUMS CODA ASSOCIATES	6377	06/08/2021	22100004 062321ap		11,150.00
	Invoice: 6377					OPEN PO FOR CONSULTING SERVICE			
					11,150.00 10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6378	06/17/2021	22100004 062321ap		100.00
	Invoice: 6378					OPEN PO FOR CONSULTING SERVICE			
					100.00 10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6379	06/17/2021	22100004 062321ap		3,375.00
	Invoice: 6379					OPEN PO FOR CONSULTING SERVICE			
					3,375.00 10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6380	06/08/2021	22100004 062321ap		9,720.00
	Invoice: 6380					OPEN PO FOR CONSULTING SERVICE			
					9,720.00 10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6381	06/08/2021	22100004 062321ap		9,450.00
	Invoice: 6381					OPEN PO FOR CONSULTING SERVICE			
					9,450.00 10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6382	06/08/2021	22100004 062321ap		13,226.50
	Invoice: 6382					OPEN PO FOR CONSULTING SERVICE			
					13,226.50 10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6383	06/08/2021	22100004 062321ap		16,750.00
	Invoice: 6383					OPEN PO FOR CONSULTING SERVICE			
					16,750.00 10005180 520056	Inspection Services			
				SHUMS CODA ASSOCIATES	6384R	06/17/2021	22100004 062321ap		17,749.67
	Invoice: 6384R					OPEN PO FOR CONSULTING SERVICE			
					17,749.67 10005180 520056	Inspection Services			
							CHECK 136477 TOTAL:		81,521.17
136478	06/23/2021	PRTD	6161	SOUTHERN TIRE MART, LLC	6130046952	06/15/2021	22100395 062321ap		1,291.68
	Invoice: 6130046952					TIRES AND TUBES (INCL. RECAPPE			
					1,291.68 10003171 521528	Tires			
				SOUTHERN TIRE MART, LLC	6130047079	06/18/2021	22100395 062321ap		335.18
	Invoice: 6130047079					TIRES AND TUBES (INCL. RECAPPE			
					335.18 10003171 521528	Tires			
							CHECK 136478 TOTAL:		1,626.86
136479	06/23/2021	PRTD	1969	SUNSTATE EQUIPMENT CO.	8856948-001	06/14/2021	062321ap		1,637.13
	Invoice: 8856948-001					Scissor Lift rental for A/V setup at CommServ			
					1,637.13 10001189 521505	Equipment Rental			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136479 TOTAL:	1,637.13
136480	06/23/2021	PRTD	1976	SUTPHEN CORPORATION	40048008	05/10/2021	22100143	062321ap	671.48
	Invoice: 40048008					AUTOMOTIVE ACCESSORIES FOR AUT			
					671.48 10003171 522155	Operational Supplies			
							CHECK	136480 TOTAL:	671.48
136481	06/23/2021	PRTD	5458	THE SALVATION ARMY	May2021	06/16/2021		062321ap	7,989.91
	Invoice: May2021					Utility Assistance - CARES			
					7,989.91 10001108 520044	NPO Program			
							CHECK	136481 TOTAL:	7,989.91
136482	06/23/2021	PRTD	6613	VALLYWIDE GENERATOR SERVICE	11537	06/09/2021	22100718	062321ap	312.50
	Invoice: 11537					ANNUAL GENERATOR INSPECTIONS W			
					168.39 40013223 520515	Generator R & M			
					144.11 40013224 520515	Generator R & M			
							CHECK	136482 TOTAL:	312.50
136483	06/23/2021	PRTD	5605	NAPA AUTO PARTS	053121	05/31/2021	22100365	062321ap	1,926.65
	Invoice: 053121					AUTOMOTIVE AND TRAILER EQUIPME			
					1,529.02 10003171 522155	Operational Supplies			
					294.64 38103202 521508	Automotive Expenses			
					50.17 40003210 521508	Automotive Expenses			
					52.82 40013220 521508	Automotive Expenses			
							CHECK	136483 TOTAL:	1,926.65
136484	06/23/2021	PRTD	6095	VARGYAS NETWORKS, INC	1000233170	06/14/2021	22101266	062321ap	10,885.21
	Invoice: 1000233170					REPLACE RADIO EQUIPMENT AT AIRPORT			
					10,885.21 10001192 521523	Equipment <$5,000			
				VARGYAS NETWORKS, INC	1000233610	06/18/2021	22101265	062321ap	21,578.06
	Invoice: 1000233610					RADIO EQUIPMENT			
					21,578.06 40001113 543128	9 Monopoles			
				VARGYAS NETWORKS, INC	1000233609	06/18/2021	22101265	062321ap	6,773.17
	Invoice: 1000233609					RADIO EQUIPMENT			
					6,773.17 40001113 543128	9 Monopoles			
				VARGYAS NETWORKS, INC	1000233617	06/18/2021	22101265	062321ap	27,348.51
	Invoice: 1000233617					RADIO EQUIPMENT			
					27,348.51 40001113 543128	9 Monopoles			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
				VARGYAS NETWORKS, INC	1000233739	06/21/2021	22101266	062321ap	6,085.13
	Invoice: 1000233739					REPLACE RADIO EQUIPMENT AT AIRPORT			
				6,085.13	10001192 521523	Equipment <$5,000			
				VARGYAS NETWORKS, INC	1000233737	06/21/2021	22101266	062321ap	3,264.18
	Invoice: 1000233737					REPLACE RADIO EQUIPMENT AT AIRPORT			
				3,264.18	10001192 521523	Equipment <$5,000			
				VARGYAS NETWORKS, INC	1000233735	06/21/2021	22101265	062321ap	6,085.13
	Invoice: 1000233735					RADIO EQUIPMENT			
				6,085.13	40001113 543128	9 Monopoles			
						CHECK	136484 TOTAL:		82,019.39
136485	06/23/2021	PRTD	2080	WAXIE SANITARY SUPPLY	80090921	06/17/2021	22100173	062321ap	4,658.58
	Invoice: 80090921					FY 20/21 - CITYWIDE JANITORIAL			
				4,658.58	10003172 520019	Custodial Contract			
						CHECK	136485 TOTAL:		4,658.58
136486	06/23/2021	PRTD	6743	WILLMENG CONSTRUCTION, INC.	22100606-3	05/31/2021	22100606	062321ap	1,418,856.54
	Invoice: 22100606-3					SUNDANCE PARK PHASE II CM@RISK			
				1,418,856.54	50214150 543055	Sundance Park Ph II			
						CHECK	136486 TOTAL:		1,418,856.54
136487	06/23/2021	PRTD	2116	XCESSORIES SQUARED SOUTHWEST, INC	I-00015719	06/02/2021	22100327	062321ap	4,686.62
	Invoice: I-00015719					FY 20/21 - SIGNAGE MATERIAL			
				4,686.62	38103202 521715	Signs & Markings			
						CHECK	136487 TOTAL:		4,686.62
					NUMBER OF CHECKS 79	*** CASH ACCOUNT TOTAL ***			2,319,345.58

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	79	2,319,345.58

*** GRAND TOTAL *** 2,319,345.58

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

SRC	ACCOUNT	EFF DATE	JNL	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021	12		1061									
APP	1000-201000							Accounts Payable			394,519.64	
		06/23/2021	062321ap	ap0623				AP CASH DISBURSEMENTS JOURNAL				
APP	9999-104000							Cash in Bank - Checking				2,319,345.58
		06/23/2021	062321ap	ap0623				AP CASH DISBURSEMENTS JOURNAL				
APP	4000-201000							Accounts Payable			436,198.89	
		06/23/2021	062321ap	ap0623				AP CASH DISBURSEMENTS JOURNAL				
APP	4001-201000							Accounts Payable			29,953.71	
		06/23/2021	062321ap	ap0623				AP CASH DISBURSEMENTS JOURNAL				
APP	4005-201000							Accounts Payable			51.97	
		06/23/2021	062321ap	ap0623				AP CASH DISBURSEMENTS JOURNAL				
APP	3810-201000							Accounts Payable			39,764.83	
		06/23/2021	062321ap	ap0623				AP CASH DISBURSEMENTS JOURNAL				
APP	5021-201000							Accounts Payable			1,418,856.54	
		06/23/2021	062321ap	ap0623				AP CASH DISBURSEMENTS JOURNAL				
								GENERAL LEDGER TOTAL			2,319,345.58	2,319,345.58
APP	9999-201010							DT DF			2,319,345.58	
		06/23/2021	062321ap	ap0623								
APP	1000-101010							Pooled Cash Equity				394,519.64
		06/23/2021	062321ap	ap0623								
APP	4000-101010							Pooled Cash Equity				436,198.89
		06/23/2021	062321ap	ap0623								
APP	4001-101010							Pooled Cash Equity				29,953.71
		06/23/2021	062321ap	ap0623								
APP	4005-101010							Pooled Cash Equity				51.97
		06/23/2021	062321ap	ap0623								
APP	3810-101010							Pooled Cash Equity				39,764.83
		06/23/2021	062321ap	ap0623								
APP	5021-101010							Pooled Cash Equity				1,418,856.54
		06/23/2021	062321ap	ap0623								
								SYSTEM GENERATED ENTRIES TOTAL			2,319,345.58	2,319,345.58
								JOURNAL 2021/12/1061 TOTAL			4,638,691.16	4,638,691.16

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2021 12	1061	06/23/2021			
1000-101010			Pooled Cash Equity			394,519.64
1000-201000			Accounts Payable		394,519.64	
				FUND TOTAL	394,519.64	394,519.64
3810 Highway User Revenue Fund	2021 12	1061	06/23/2021			
3810-101010			Pooled Cash Equity			39,764.83
3810-201000			Accounts Payable		39,764.83	
				FUND TOTAL	39,764.83	39,764.83
4000 Water Utility Fund	2021 12	1061	06/23/2021			
4000-101010			Pooled Cash Equity			436,198.89
4000-201000			Accounts Payable		436,198.89	
				FUND TOTAL	436,198.89	436,198.89
4001 Wastewater Fund	2021 12	1061	06/23/2021			
4001-101010			Pooled Cash Equity			29,953.71
4001-201000			Accounts Payable		29,953.71	
				FUND TOTAL	29,953.71	29,953.71
4005 Environmental Services	2021 12	1061	06/23/2021			
4005-101010			Pooled Cash Equity			51.97
4005-201000			Accounts Payable		51.97	
				FUND TOTAL	51.97	51.97
5021 CIP General	2021 12	1061	06/23/2021			
5021-101010			Pooled Cash Equity			1,418,856.54
5021-201000			Accounts Payable		1,418,856.54	
				FUND TOTAL	1,418,856.54	1,418,856.54
9999 Pooled Cash	2021 12	1061	06/23/2021			
9999-104000			Cash in Bank - Checking			2,319,345.58
9999-201010			DT DF		2,319,345.58	
				FUND TOTAL	2,319,345.58	2,319,345.58

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
1000	General Fund		394,519.64
3810	Highway User Revenue Fund		39,764.83
4000	Water Utility Fund		436,198.89
4001	Wastewater Fund		29,953.71
4005	Environmental Services		51.97
5021	CIP General		1,418,856.54
9999	Pooled Cash	2,319,345.58	
	TOTAL	2,319,345.58	2,319,345.58

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136559	06/29/2021	PRTD	6820	1582, LLC	121	06/23/2021	22101097	062921ap	68,475.00
Invoice: 121						Annual Staff Physicals			
					62,500.00 10002140 520004	Medical Exams & Service			
					5,975.00 10002140 520029	Pre-Employment Testing			
						CHECK	136559 TOTAL:		68,475.00
136560	06/29/2021	PRTD	1978	3M COMPANY	9411576708	06/03/2021	22100234	062921ap	1,884.96
Invoice: 9411576708						FY 20/21 - SIGN MATERIALS			
					1,884.96 38103202 521715	Signs & Markings			
				3M COMPANY	9411673341	06/11/2021	22100234	062921ap	5,452.92
Invoice: 9411673341						FY 20/21 - SIGN MATERIALS			
					5,452.92 38103202 521715	Signs & Markings			
						CHECK	136560 TOTAL:		7,337.88
136561	06/29/2021	PRTD	5112	A & G TURF EQUIPMENT INC.	D562447	06/21/2021	22101313	062921ap	564.65
Invoice: D562447						Power Brush			
					564.65 50012140 521523	Equipment <$5,000			
						CHECK	136561 TOTAL:		564.65
136562	06/29/2021	PRTD	5566	ACRO SERVICE CORPORATION	1346252	06/13/2021	22101221	062921ap	727.75
Invoice: 1346252						OPEN PO - Support Services			
					727.75 10002121 520012	Contract Labor			
						CHECK	136562 TOTAL:		727.75
136563	06/29/2021	PRTD	5566	ACRO SERVICE CORPORATION	1339333	06/06/2021	22100150	062921ap	479.20
Invoice: 1339333						Open PO - Hearing Officer - Ja			
					479.20 30522121 510001	Salaries and Wages			
				ACRO SERVICE CORPORATION	1339335	06/06/2021	22101221	062921ap	727.75
Invoice: 1339335						OPEN PO - Support Services			
					727.75 10002121 520012	Contract Labor			
				ACRO SERVICE CORPORATION	1346250	06/13/2021	22100149	062921ap	718.80
Invoice: 1346250						Open PO - Temp. Dispatchers			
					718.80 10002121 520012	Contract Labor			
						CHECK	136563 TOTAL:		1,925.75
136564	06/29/2021	PRTD	6851	AMILIA CONSULTING USA	INV-0274	04/30/2021	22101188	062921ap	1,750.00
Invoice: INV-0274						Cost recovery and fee study			
					1,750.00 10004150 520037	Professional Services General			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136564 TOTAL:	1,750.00
136565	06/29/2021	PRTD	5141	ANDREWS REFRIGERATION	120766	05/01/2021	22100903	062921ap	3,260.03
Invoice: 120766						HVAC REPLACEMENTS - 100 N Apache Rd			
					3,260.03 10003172 541070	Other Equipment >$5,000			
				ANDREWS REFRIGERATION	119937	06/17/2021	22100332	062921ap	51.00
Invoice: 119937						FY 20/21 - CITYWIDE HVAC & PLU			
					51.00 10003172 520512	Building Repairs			
				ANDREWS REFRIGERATION	36497	06/02/2021	22100332	062921ap	263.50
Invoice: 36497						FY 20/21 - CITYWIDE HVAC & PLU			
					263.50 10003172 520512	Building Repairs			
							CHECK	136565 TOTAL:	3,574.53
136566	06/29/2021	PRTD	1103	AQUATIC ENVIRONMENTAL SYSTEMS	IN49996	06/23/2021	22100663	062921ap	2,919.71
Invoice: IN49996						CITY POOL CHEMICALS			
					2,919.71 10003172 521540	Chemicals			
							CHECK	136566 TOTAL:	2,919.71
136567	06/29/2021	PRTD	1104	ARAMARK UNIFORM & CAREER APPAREL	473000256507	06/17/2021	22100378	062921ap	643.54
Invoice: 473000256507						CLOTHING: ATHLETIC, CASUAL, DR			
					150.11 40003210 521922	Uniforms			
					493.43 40013220 521922	Uniforms			
				ARAMARK UNIFORM & CAREER APPAREL	473000259332	06/24/2021	22100378	062921ap	630.84
Invoice: 473000259332						CLOTHING: ATHLETIC, CASUAL, DR			
					630.84 40013220 521922	Uniforms			
							CHECK	136567 TOTAL:	1,274.38
136568	06/29/2021	PRTD	5686	ARIZONA PPE RECON, INC.	2816	06/17/2021	22100275	062921ap	595.00
Invoice: 2816						PPE Cleaning and Repair			
					595.00 10002140 520518	Equip Testing & Certification			
				ARIZONA PPE RECON, INC.	2817	06/17/2021	22100275	062921ap	1,189.10
Invoice: 2817						PPE Cleaning and Repair			
					1,189.10 10002140 520518	Equip Testing & Certification			
				ARIZONA PPE RECON, INC.	2827	06/21/2021	22100275	062921ap	499.39
Invoice: 2827						PPE Cleaning and Repair			
					499.39 10002140 520518	Equip Testing & Certification			
				ARIZONA PPE RECON, INC.	2775	06/01/2021	22100275	062921ap	491.50
Invoice: 2775						PPE Cleaning and Repair			
					491.50 10002140 520518	Equip Testing & Certification			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
				ARIZONA PPE RECON, INC.	2836	06/28/2021	22100275	062921ap	154.00
Invoice: 2836					PPE Cleaning and Repair				
				154.00	10002140 520518 Equip Testing & Certification				
						CHECK	136568 TOTAL:		2,928.99
136569	06/29/2021	PRTD	6665	ASPIN/MOHAVE	21B06046	04/29/2021	22100051	062921ap	2,937.70
Invoice: 21B06046					OPEN PO- Food & supplies for s				
				2,937.70	35754150 521502 Program Supplies/Equipment				
				ASPIN/MOHAVE	21B08338	06/16/2021	22100051	062921ap	2,606.44
Invoice: 21B08338					OPEN PO- Food & supplies for s				
				2,606.44	35754150 521502 Program Supplies/Equipment				
				ASPIN/MOHAVE	21B08154	06/15/2021	22100051	062921ap	1,730.46
Invoice: 21B08154					OPEN PO- Food & supplies for s				
				1,730.46	35754150 521502 Program Supplies/Equipment				
						CHECK	136569 TOTAL:		7,274.60
136570	06/29/2021	PRTD	1043	ASSI SECURITY OF ARIZONA	52207	06/29/2021	22101217	062921ap	12,815.33
Invoice: 52207					BUCKEYE WWTP ACCESS CONTROL UPGRADES				
				12,815.33	40011113 543138 Access Control Wastewater Plnt				
						CHECK	136570 TOTAL:		12,815.33
136571	06/29/2021	PRTD	1151	ARIZONA 811	2021-AM0631	05/31/2021	22100409	062921ap	1,030.93
Invoice: 2021-AM0631					UTILITY MARKING SERVICES FY 20				
				1,030.93	40003350 521514 Water Distrib System R&M				
						CHECK	136571 TOTAL:		1,030.93
136572	06/29/2021	PRTD	5131	BANNER ESTRELLA MED CENTER	41539404 05/06/2021	05/06/2021	22100228	062921ap	1,951.80
Invoice: 41539404 05/06/2021					Pharmaceutical Restock for Eme				
				1,951.80	10002140 522153 Medical Supplies				
				BANNER ESTRELLA MED CENTER	41539404 06/13/2021	06/13/2021	22100228	062921ap	1,624.50
Invoice: 41539404 06/13/2021					Pharmaceutical Restock for Eme				
				1,624.50	10002140 522153 Medical Supplies				
						CHECK	136572 TOTAL:		3,576.30
136573	06/29/2021	PRTD	1213	BINGHAM EQUIPMENT CO	P39639	06/24/2021	22100193	062921ap	1,652.31
Invoice: P39639					Small Tool/Equipment Maintenan				
				1,652.31	10002140 520525 Hardware Maintenance				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136573 TOTAL:	1,652.31
136574	06/29/2021	PRTD	1251	BUCKEYE WATER CONSERVATION & DRAI	886	05/01/2021	22100063	062921ap	328.22
	Invoice: 886				328.22 40003302 520581	MAINTENANCE AND REPAIR OF DRAI Well Maintenance Repair			
				BUCKEYE WATER CONSERVATION & DRAI	897	05/31/2021	22100063	062921ap	328.22
	Invoice: 897				328.22 40003302 520581	MAINTENANCE AND REPAIR OF DRAI Well Maintenance Repair			
				BUCKEYE WATER CONSERVATION & DRAI	895	05/01/2021	22100063	062921ap	328.22
	Invoice: 895				328.22 40003302 520581	MAINTENANCE AND REPAIR OF DRAI Well Maintenance Repair			
				BUCKEYE WATER CONSERVATION & DRAI	893	05/01/2021	22100063	062921ap	328.22
	Invoice: 893				328.22 40003302 520581	MAINTENANCE AND REPAIR OF DRAI Well Maintenance Repair			
				BUCKEYE WATER CONSERVATION & DRAI	890	05/01/2021	22100063	062921ap	328.22
	Invoice: 890				328.22 40003302 520581	MAINTENANCE AND REPAIR OF DRAI Well Maintenance Repair			
				BUCKEYE WATER CONSERVATION & DRAI	888	05/01/2021	22100063	062921ap	328.22
	Invoice: 888				328.22 40003302 520581	MAINTENANCE AND REPAIR OF DRAI Well Maintenance Repair			
							CHECK	136574 TOTAL:	1,969.32
136575	06/29/2021	PRTD	5092	CAROLLO ENGINEERS, INC	0197654	04/10/2021	22101366	062921ap	22,777.70
	Invoice: 0197654				22,777.70 40011113 543136	Task Order No. 2 Wastewater Master Plan Wastewater Masterplan			
				CAROLLO ENGINEERS, INC	0196554	03/15/2021	22101366	062921ap	7,421.90
	Invoice: 0196554				7,421.90 40011113 543136	Task Order No. 2 Wastewater Master Plan Wastewater Masterplan			
				CAROLLO ENGINEERS, INC	FB10758	05/24/2021	22101366	062921ap	27,465.30
	Invoice: FB10758				27,465.30 40011113 543136	Task Order No. 2 Wastewater Master Plan Wastewater Masterplan			
				CAROLLO ENGINEERS, INC	FB11225	06/08/2021	22101366	062921ap	39,806.10
	Invoice: FB11225				39,806.10 40011113 543136	Task Order No. 2 Wastewater Master Plan Wastewater Masterplan			
				CAROLLO ENGINEERS, INC	FB11736	06/15/2021	22100966	062921ap	23,824.20
	Invoice: FB11736				23,824.20 40001113 543107	TO#3, Design Concept Report for Old Valencia Valencia Sys Old Wtr Main Upgr			
				CAROLLO ENGINEERS, INC	FB10889	05/24/2021	22100966	062921ap	14,060.00
	Invoice: FB10889					TO#3, Design Concept Report for Old Valencia			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
					14,060.00 40001113 543107	Valencia Sys Old Wtr Main Upgr			
				CAROLLO ENGINEERS, INC	FB11728	06/15/2021	22100660	062921ap	16,322.74
				Invoice: FB11728		DESIGN WELL NO. 13 TO #1			
					16,322.74 40001113 543104	Drill Well #13			
								CHECK 136575 TOTAL:	151,677.94
136576	06/29/2021	PRTD	5029	CDW GOVERNMENT LLC	F422516	06/10/2021	22101138	062921ap	1,639.65
				Invoice: F422516		SURFACE PRO FOR NEW HIRE IN ECON DEV			
					1,639.65 10001187 521521	IT Equipment <$5000			
								CHECK 136576 TOTAL:	1,639.65
136577	06/29/2021	PRTD	5082	CHALLENGER SPORTS	062021	06/28/2021	22101185	062921ap	942.50
				Invoice: 062021		SIC-international soccer camp			
					942.50 10004160 520013	Contract Instruc-SIC			
								CHECK 136577 TOTAL:	942.50
136578	06/29/2021	PRTD	1341	CROSS LIFELINE TRAINING INC	CLT062122	06/28/2021	22100878	062921ap	345.00
				Invoice: CLT062122		EDUCATIONAL/TRAINING SERVICES			
					345.00 10004160 520013	Contract Instruc-SIC			
								CHECK 136578 TOTAL:	345.00
136579	06/29/2021	PRTD	1343	CUMMINS ROCKY MOUNTAIN, LLC	54-75569	06/16/2021	22100769	062921ap	902.05
				Invoice: 54-75569		EQUIPMENT MAINTENANCE AND REPA			
					902.05 40003215 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-75568	06/16/2021	22100769	062921ap	1,268.45
				Invoice: 54-75568		EQUIPMENT MAINTENANCE AND REPA			
					1,268.45 40003215 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-75101	06/15/2021	22100290	062921ap	1,170.84
				Invoice: 54-75101		EQUIPMENT MAINTENANCE AND REPA			
					1,170.84 40003218 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-74178	06/09/2021	22100290	062921ap	752.56
				Invoice: 54-74178		EQUIPMENT MAINTENANCE AND REPA			
					752.56 40003218 520515	Generator R & M			
								CHECK 136579 TOTAL:	4,093.90
136580	06/29/2021	PRTD	6721	DCS MANAGMENT, LLC	67672	06/15/2021	22100864	062921ap	220.00
				Invoice: 67672		DCS COURIER SERVICES WASTEWATER			
					220.00 40013221 520049	Laboratory Fees			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136580 TOTAL:	220.00
136581	06/29/2021	PRTD	6864	DEARY BROS. INC	0384975	06/28/2021	22101233	062921ap	8,685.88
	Invoice: 0384975					SIC gymnastics equipment			
					8,685.88 10004160 521534	Program Supplies Gen Rec			
							CHECK	136581 TOTAL:	8,685.88
136582	06/29/2021	PRTD	6775	DH WIRELESS SOLUTIONS	INV3427	06/16/2021	22100726	062921ap	6,717.25
	Invoice: INV3427					Portable Data Network (PDN) to			
					6,717.25 10002140 522155	Operational Supplies			
							CHECK	136582 TOTAL:	6,717.25
136583	06/29/2021	PRTD	5587	DYKMAN ELECTRICAL INC	0570267-IN	05/14/2021	22101255	062921ap	2,307.76
	Invoice: 0570267-IN					NAR ARF - DAY TANK PUMP #1 VFD CABINET MODIFY			
					2,307.76 40003216 520585	Treatment Plant O&M			
							CHECK	136583 TOTAL:	2,307.76
136584	06/29/2021	PRTD	1032	A TO Z EQUIPMENT RENTALS & SALES	336405-7	06/17/2021	22100215	062921ap	3,876.94
	Invoice: 336405-7					FY 20/21 - SHOP SUPPLIES/PURCH			
					3,876.94 38103202 521520	Small Tools<$5,000			
				A TO Z EQUIPMENT RENTALS & SALES	336402-7	06/22/2021	22100215	062921ap	4,009.30
	Invoice: 336402-7					FY 20/21 - SHOP SUPPLIES/PURCH			
					4,009.30 38103202 521520	Small Tools<$5,000			
							CHECK	136584 TOTAL:	7,886.24
136585	06/29/2021	PRTD	5172	ENTELLUS INC	24586	06/21/2021	22100590	062921ap	1,364.00
	Invoice: 24586					GIS ANALYST PROFESSIONAL SERVI			
					1,364.00 10001189 520018	General Contractual Services			
				ENTELLUS INC	24585	06/17/2021	22100590	062921ap	1,012.00
	Invoice: 24585					GIS ANALYST PROFESSIONAL SERVI			
					1,012.00 10001189 520018	General Contractual Services			
							CHECK	136585 TOTAL:	2,376.00
136586	06/29/2021	PRTD	6549	ESI CORP	0921	06/08/2021	22100773	062921ap	5,000.00
	Invoice: 0921					CONSULTING SERVICES			
					5,000.00 10001187 520037	Professional Services General			

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CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136586 TOTAL:	5,000.00
136587	06/29/2021	PRTD	6858	EVIDENCE MANAGEMENT SPECIALISTS L	EMS21-3	06/16/2021	22101339	062921ap	7,950.00
Invoice: EMS21-3						Evidence Audit			
					7,950.00 10002121 520037	Professional Services General			
							CHECK	136587 TOTAL:	7,950.00
136588	06/29/2021	PRTD	1414	EWING IRRIGATION PRODUCTS INC	14378783	06/02/2021	22101318	062921ap	4,128.45
Invoice: 14378783						Hardscape supplies for IR BLDG: madison gold; rive			
					4,128.45 10004155 521507	Landscaping Materials			
							CHECK	136588 TOTAL:	4,128.45
136589	06/29/2021	PRTD	1432	FERGUSON WATERWORKS #3083	0425992	05/11/2021	22100706	062921ap	3,349.90
Invoice: 0425992						CENTRAL AND SUNDANCE WRF FERGU			
					3,349.90 40013221 520540	Wastewater Plant R & M			
				FERGUSON WATERWORKS #3083	0430892	06/22/2021	22100468	062921ap	890.09
Invoice: 0430892						PARTS FOR THE INSTALLATION AND			
					890.09 40003351 520575	Water Meters R & M			
							CHECK	136589 TOTAL:	4,239.99
136590	06/29/2021	PRTD	6659	FITLOGISTIX, LLC	002444-R0	06/21/2021	22101333	062921ap	4,223.43
Invoice: 002444-R0						Exercise Equipment for FS-704			
					4,223.43 10002140 521520	Small Tools<$5,000			
							CHECK	136590 TOTAL:	4,223.43
136591	06/29/2021	PRTD	1440	FLEETPRIDE, INC	74665769	05/25/2021	22100288	062921ap	65.55
Invoice: 74665769						AUTOMOTIVE / EQUIPMENT AND PAR			
					65.55 10003171 522155	Operational Supplies			
							CHECK	136591 TOTAL:	65.55
136592	06/29/2021	PRTD	3037	FORESITE DESIGN & CONSTRUCTION IN	Pay App 5	06/10/2021	22100871	062921ap	7,112.30
Invoice: Pay App 5						DO #1 OLD JUSTICE COURT -REOPEN ACCIDNETLY CLOSED			
					7,112.30 50211000 543083	Old Justice Court Space Plan			
							CHECK	136592 TOTAL:	7,112.30
136593	06/29/2021	PRTD	5939	FORTILINE, INC	5335909	06/11/2021	22100483	062921ap	1,049.95
Invoice: 5335909						MATERIALS TO REPAIR WATER INFR			
					1,049.95 40003350 521514	Water Distrib System R&M			

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CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
				FORTILINE, INC	5327471	06/11/2021	22100483	062921ap	1,303.70
	Invoice: 5327471					MATERIALS TO REPAIR WATER INFR			
					1,303.70 40003350 521514	Water Distrib System R&M			
						CHECK	136593	TOTAL:	2,353.65
136594	06/29/2021	PRTD	5719	FREIGHTLINER OF ARIZONA, LLC	XA310413472:01	06/23/2021	22100955	062921ap	23,046.02
	Invoice: XA310413472:01					Personal Protective Equipment			
					23,046.02 10002140 522150	Personal Protective Equipment			
						CHECK	136594	TOTAL:	23,046.02
136595	06/29/2021	PRTD	6551	G4S SECURE SOLUTIONS USA INC	11857346	06/20/2021	22100756	062921ap	209.34
	Invoice: 11857346					SECURITY OFFICER SERVICES CONT			
					104.67 40003210 520037	Professional Services General			
					104.67 40013220 520037	Professional Services General			
						CHECK	136595	TOTAL:	209.34
136596	06/29/2021	PRTD	1489	GUST ROSENFELD P.L.C.	375310	06/23/2021		062921ap	372.78
	Invoice: 375310					CIP 101390 Miller & Broadway			
					372.78 50213170 543067	Miller & Broadway TS			
				GUST ROSENFELD P.L.C.	375309	06/23/2021		062921ap	132.61
	Invoice: 375309					CIP 101040 Farallon Water Campus			
					132.61 40001113 543045	Wtr Treatment Farallon #16			
				GUST ROSENFELD P.L.C.	375306	06/23/2021		062921ap	66.30
	Invoice: 375306					CIP 101290 Broadway Road Water Campus			
					66.30 40003210 543028	Jackie A Meck Wtr Campus/BRWC			
				GUST ROSENFELD P.L.C.	375305	06/23/2021		062921ap	1,728.48
	Invoice: 375305					CIP 101390 Traffic Signal Miller & Broadway			
					1,728.48 50213170 543067	Miller & Broadway TS			
				GUST ROSENFELD P.L.C.	375304	06/23/2021		062921ap	749.18
	Invoice: 375304					CIP 101380 Traffic Signal Miller & Southern			
					749.18 50213170 543069	Miller & Southern TS			
						CHECK	136596	TOTAL:	3,049.35
136597	06/29/2021	PRTD	1497	HAMILTON'S TOWING	105174	06/22/2021	22100116	062921ap	173.00
	Invoice: 105174					VEHICLE TOWING-ON CALL SERVICE			
					173.00 10003171 520033	Vehicle Towing			
				HAMILTON'S TOWING	105172	06/21/2021	22100116	062921ap	52.50
	Invoice: 105172					VEHICLE TOWING-ON CALL SERVICE			

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CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
					52.50 10003171 520033	Vehicle Towing			
								CHECK 136597 TOTAL:	225.50
136598	06/29/2021	PRTD	1016	HAYDON BUILDING CORP	Pay App 14	05/31/2021	22001332	062921ap	741,577.33
	Invoice: Pay App 14					CMAR N MILLER RD TRUNK SEWER			
					741,577.33 40013220 543043	N.Miller Rd Trunk Sewer			
								CHECK 136598 TOTAL:	741,577.33
136599	06/29/2021	PRTD	5537	HAZEN AND SAWYER	22100759-05	05/21/2021	22100759	062921ap	11,152.45
	Invoice: 22100759-05					TO #13 WC#5 FIRE FLOW ANALYSIS			
					11,152.45 40001113 543106	WTP #5			
				HAZEN AND SAWYER	22100729-8	06/21/2021	22100729	062921ap	25,345.00
	Invoice: 22100729-8					TO #9 ASSESS 25 MANHOLES ON AP			
					25,345.00 40011113 543134	Manhole Rehab & Assessment			
								CHECK 136599 TOTAL:	36,497.45
136600	06/29/2021	PRTD	1509	HENRY SCHEIN INC	93202018	05/03/2021	22100172	062921ap	765.39
	Invoice: 93202018					Medical Supplies			
					765.39 10002140 522153	Medical Supplies			
								CHECK 136600 TOTAL:	765.39
136601	06/29/2021	PRTD	1513	HILL BROTHERS CHEMICAL COMPANY	07096662	06/22/2021	22100043	062921ap	143.35
	Invoice: 07096662					CHEMICALS TO TREAT AND DISINFE			
					143.35 40003214 521540	Chemicals			
				HILL BROTHERS CHEMICAL COMPANY	07096658	06/22/2021	22100043	062921ap	167.24
	Invoice: 07096658					CHEMICALS TO TREAT AND DISINFE			
					167.24 40003215 521540	Chemicals			
				HILL BROTHERS CHEMICAL COMPANY	07096663	06/22/2021	22100043	062921ap	657.03
	Invoice: 07096663					CHEMICALS TO TREAT AND DISINFE			
					657.03 40003213 521540	Chemicals			
				HILL BROTHERS CHEMICAL COMPANY	07096667	06/22/2021	22100043	062921ap	268.79
	Invoice: 07096667					CHEMICALS TO TREAT AND DISINFE			
					268.79 40003212 521540	Chemicals			
				HILL BROTHERS CHEMICAL COMPANY	07096757	06/22/2021	22100043	062921ap	3,453.48
	Invoice: 07096757					CHEMICALS TO TREAT AND DISINFE			
					3,453.48 40003216 521540	Chemicals			
				HILL BROTHERS CHEMICAL COMPANY	07096591	06/22/2021	22100066	062921ap	2,150.28
	Invoice: 07096591					WASTEWATER TREATING CHEMICALS			

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CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
					2,150.28 40013221 521540 Chemicals				
				HILL BROTHERS CHEMICAL COMPANY	07097883	06/21/2021	22100066	062921ap	1,433.52
				Invoice: 07097883	WASTEWATER TREATING CHEMICALS				
					1,433.52 40013222 521540 Chemicals				
				HILL BROTHERS CHEMICAL COMPANY	07097882	06/21/2021	22100066	062921ap	4,144.18
				Invoice: 07097882	WASTEWATER TREATING CHEMICALS				
					4,144.18 40013222 521540 Chemicals				
				HILL BROTHERS CHEMICAL COMPANY	07097925	06/22/2021	22100066	062921ap	2,150.28
				Invoice: 07097925	WASTEWATER TREATING CHEMICALS				
					2,150.28 40013222 521540 Chemicals				
								CHECK 136601 TOTAL:	14,568.15
136602	06/29/2021	PRTD	6556	ABRAZO WEST CAMPUS ATTN: ACCOUNTI	AWC 053121-Fire	06/11/2021	22100191	062921ap	60.91
				Invoice: AWC 053121-Fire	Medical/Drug Restock				
					60.91 10002140 522153 Medical Supplies				
								CHECK 136602 TOTAL:	60.91
136603	06/29/2021	PRTD	6867	INDUSTRIAL PRODUCTS MFG. INC	8227	05/12/2021	22101245	062921ap	21,057.28
				Invoice: 8227	Less Lethal Munitions				
					21,057.28 10002121 521900 Ammunition				
								CHECK 136603 TOTAL:	21,057.28
136604	06/29/2021	PRTD	1551	INTERIOR SOLUTIONS OF AZ, LLC	118124-1-MB	06/15/2021	22101166	062921ap	2,738.27
				Invoice: 118124-1-MB	OLD JUSTIC COURT ffe				
					2,738.27 50211000 543083 Old Justice Court Space Plan				
				INTERIOR SOLUTIONS OF AZ, LLC	117882-2-MB	06/14/2021	22101109	062921ap	4,973.94
				Invoice: 117882-2-MB	OLD JUSTICE COURT BULLPEN FRAMLESS GLASS				
					4,973.94 50211000 543083 Old Justice Court Space Plan				
				INTERIOR SOLUTIONS OF AZ, LLC	117882-1-MB	06/14/2021	22101110	062921ap	1,765.36
				Invoice: 117882-1-MB	OLD JUSTICE COURT LATERALS & WING PANELS				
					1,765.36 50211000 543083 Old Justice Court Space Plan				
				INTERIOR SOLUTIONS OF AZ, LLC	117611-1-MB	06/16/2021	22101016	062921ap	6,305.66
				Invoice: 117611-1-MB	FFE SUNDANCE CROSSING TI				
					6,305.66 50214150 543056 Sundance Xing Tenant Improveme				
				INTERIOR SOLUTIONS OF AZ, LLC	118435-1-MB	06/16/2021	22101350	062921ap	4,924.33
				Invoice: 118435-1-MB	Filing Cabinets				
					4,924.33 50012140 522155 Operational Supplies				

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CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136604 TOTAL:	20,707.56
136605	06/29/2021	PRTD	5487	IPROMOTEU	1874729PWP	06/17/2021	22100679	062921ap	495.00
Invoice: 1874729PWP						City Swag Promo Items			
				495.00	10001100 521536	City Events			
							CHECK	136605 TOTAL:	495.00
136606	06/29/2021	PRTD	5363	K.P. VENTURES	9579	06/22/2021	22101345	062921ap	2,972.34
Invoice: 9579						BULFER GENERATOR ELECTRICAL WORK			
				2,972.34	40003218 520515	Generator R & M			
				K.P. VENTURES	9487	06/01/2021	22101345	062921ap	2,916.24
Invoice: 9487						BULFER GENERATOR ELECTRICAL WORK			
				2,916.24	40003218 520515	Generator R & M			
							CHECK	136606 TOTAL:	5,888.58
136607	06/29/2021	PRTD	5666	KIMLEY-HORN AND ASSOCIATES, INC.	18894075	05/31/2021	22100902	062921ap	6,163.00
Invoice: 18894075						Design Miller Rd. Durango St. to Pima St.			
				6,163.00	50213170 543137	Miller Rd Exp-Durango-LBuckeye			
				KIMLEY-HORN AND ASSOCIATES, INC.	18940924	05/31/2021	22001016	062921ap	15,400.00
Invoice: 18940924						N. ZONE PARK SITE ASSESSMENT &			
				15,400.00	50214150 543062	NZone 30-acre Community Park			
							CHECK	136607 TOTAL:	21,563.00
136608	06/29/2021	PRTD	1594	L.N. CURTIS & SONS	INV497892	06/11/2021	22100747	062921ap	3,707.55
Invoice: INV497892						Personal Protective Equipment			
				3,707.55	10002140 522150	Personal Protective Equipment			
							CHECK	136608 TOTAL:	3,707.55
136609	06/29/2021	PRTD	1605	LAYER 8, LLC	1620	06/22/2021	22101211	062921ap	1,200.00
Invoice: 1620						Task Order #47 - Field Operation Support			
				1,200.00	10001189 520018	General Contractual Services			
							CHECK	136609 TOTAL:	1,200.00
136610	06/29/2021	PRTD	5205	LEATHAM FAMILY, LLC	0380438-IN	06/08/2021	22100202	062921ap	119.30
Invoice: 0380438-IN						Employee Badges			
				119.30	10002140 521922	Uniforms			
				LEATHAM FAMILY, LLC	0379926-IN	06/04/2021	22100202	062921ap	1,245.95
Invoice: 0379926-IN						Employee Badges			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
					1,245.95 10002140 521922 Uniforms				
								CHECK 136610 TOTAL:	1,365.25
136611	06/29/2021	PRTD	6392	LITCHFIELD TACTICAL, LLC	20210616210	06/16/2021	22100383	062921ap	1,365.00
Invoice: 20210616210					OPEN PO - AZ Post Physical Exa				
					1,365.00 10002121 520029 Pre-Employment Testing				
								CHECK 136611 TOTAL:	1,365.00
136612	06/29/2021	PRTD	1620	LOFTIN EQUIPMENT COMPANY	S184728	06/18/2021	22101147	062921ap	2,772.04
Invoice: S184728					PLC REPAIRS FOR GENERATOR AT SUNDANCE WASTEWATER				
					2,772.04 40013222 520543 WW R&M				
								CHECK 136612 TOTAL:	2,772.04
136613	06/29/2021	PRTD	1621	LOGICALIS, INC	IN198780	06/16/2021	22101252	062921ap	43,940.33
Invoice: IN198780					CISCO CATALYST 9300 SWITCHES				
					43,940.33 10001192 541111 Computer Hardware >$5,000				
				LOGICALIS, INC	S120244	06/22/2021	22101079	062921ap	17,992.20
Invoice: S120244					COMM SERV - SDX - A/V SET UP				
					17,992.20 50214150 543056 Sundance Xing Tenant Improveme				
				LOGICALIS, INC	IN198904	06/22/2021	22101079	062921ap	837.97
Invoice: IN198904					COMM SERV - SDX - A/V SET UP				
					837.97 50214150 543056 Sundance Xing Tenant Improveme				
				LOGICALIS, INC	IN198902	06/22/2021	22101079	062921ap	34,619.36
Invoice: IN198902					COMM SERV - SDX - A/V SET UP				
					34,619.36 50214150 543056 Sundance Xing Tenant Improveme				
				LOGICALIS, INC	IN198934	06/23/2021	22101079	062921ap	9,346.33
Invoice: IN198934					COMM SERV - SDX - A/V SET UP				
					9,346.33 50214150 543056 Sundance Xing Tenant Improveme				
				LOGICALIS, INC	S120323	06/28/2021	22100476	062921ap	1,280.00
Invoice: S120323					OPEN PO FOR CONTRACTUAL SERVIC				
					1,280.00 10001189 520018 General Contractual Services				
								CHECK 136613 TOTAL:	108,016.19
136614	06/29/2021	PRTD	6874	MAIN EVENT ENTERTAINMENT	471984-1	06/15/2021	22101310	062921ap	1,283.26
Invoice: 471984-1					Summer 2021 youth programs field trips				
					1,283.26 10004153 520015 Contractual Svc BASE				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136614 TOTAL:	1,283.26
136615	06/29/2021	PRTD	1658	MARIPOSA LANDSCAPE ARIZONA INC	28451	06/14/2021	22101257	062921ap	1,575.00
Invoice: 28451						RETENTION BASIN CLEANING			
					1,575.00 40003216 520035	Landscaping			
							CHECK	136615 TOTAL:	1,575.00
136616	06/29/2021	PRTD	6014	MENTORSOURCE TRAINING CORPORATION	21954	06/22/2021	22101303	062921ap	1,350.00
Invoice: 21954						CONFINED SPACE TRAINING FOR NEW EMPLOYEES			
					1,157.14 40003210 526110	Conference and Seminars			
					192.86 40013220 526110	Conference and Seminars			
							CHECK	136616 TOTAL:	1,350.00
136617	06/29/2021	PRTD	6191	MORPHO USA, INC.	138752	06/15/2021	22100595	062921ap	1,695.00
Invoice: 138752						Livescan Device Renewals			
					1,695.00 10002121 522155	Operational Supplies			
							CHECK	136617 TOTAL:	1,695.00
136618	06/29/2021	PRTD	1684	MOTOROLA SOLUTIONS, INC	1187054781	06/14/2021	22101232	062921ap	33,740.19
Invoice: 1187054781						PD FLEX RECORDS DELIVERY SERVICES			
					33,740.19 10001189 520037	Professional Services General			
							CHECK	136618 TOTAL:	33,740.19
136619	06/29/2021	PRTD	1203	MRW ENTERPRISES	225495	05/26/2021	22101002	062921ap	554.50
Invoice: 225495						VEHICLE DECALS			
					554.50 10002140 520505	Vehicle & Equipment Repair			
				MRW ENTERPRISES	225496	05/26/2021	22101002	062921ap	554.50
Invoice: 225496						VEHICLE DECALS			
					554.50 10002140 520505	Vehicle & Equipment Repair			
				MRW ENTERPRISES	225497	05/26/2021	22101002	062921ap	554.50
Invoice: 225497						VEHICLE DECALS			
					554.50 10002140 520505	Vehicle & Equipment Repair			
							CHECK	136619 TOTAL:	1,663.50
136620	06/29/2021	PRTD	1689	MYERS TIRE SUPPLY DISTRIBUTION	13530415	04/27/2021	22101065	062921ap	6,876.66
Invoice: 13530415						AUTOMOTIVE SHOP AND RELATED EQUIPMENT AND SUPPLIES			
					6,876.66 10003171 541070	Other Equipment >$5,000			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136620 TOTAL:	6,876.66
136621	06/29/2021	PRTD	1693	NBS GOVERNMENT FINANCE GROUP	621000410	06/20/2021		062921ap	6,344.40
	Invoice: 621000410					Buckeye DFAST			
					845.01 80007701 706015	District Operation Costs			
					447.01 80057704 706015	District Operation Costs			
					2,770.28 80067705 706015	District Operation Costs			
					2,282.10 80107707 706015	District Operation Costs			
							CHECK	136621 TOTAL:	6,344.40
136622	06/29/2021	PRTD	6451	NESTLE WATERS NORTH AMERICA	01E6700441328	06/02/2021 22100370		062921ap	692.49
	Invoice: 01E6700441328					Bottle Water for Fire Stations			
					692.49 10002140 522155	Operational Supplies			
							CHECK	136622 TOTAL:	692.49
136623	06/29/2021	PRTD	999993	Mary Stella Carrera	M. Carrera	06/23/2021		062921ap	350.00
	Invoice: M. Carrera					Full refund - Cemetery			
					350.00 50012140 431810	Cemetery Lease			
							CHECK	136623 TOTAL:	350.00
136624	06/29/2021	PRTD	999994	Sandra Hernandez	238730	07/01/2020		062921ap	60.00
	Invoice: 238730					Refund due to COVID19			
					60.00 9999 117560	Rec Clearing Acct			
							CHECK	136624 TOTAL:	60.00
136625	06/29/2021	PRTD	999996	Arjun Wadnerkar	PLZM-21-00234	06/24/2021		062921ap	500.00
	Invoice: PLZM-21-00234					PAC Meeting not needed			
					500.00 10005180 431001	Entitlement Processes			
							CHECK	136625 TOTAL:	500.00
136626	06/29/2021	PRTD	999996	Bates Plumbing Company	PLZM-21-00235	06/28/2021		062921ap	500.00
	Invoice: PLZM-21-00235					PAC Meeting was not needed			
					500.00 10005180 431001	Entitlement Processes			
							CHECK	136626 TOTAL:	500.00
136627	06/29/2021	PRTD	5513	PARTS MART	856472P	06/21/2021 22100348		062921ap	85.44
	Invoice: 856472P					AUTOMOTIVE AND TRAILER EQUIPME			
					85.44 40013220 521508	Automotive Expenses			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
				PARTS MART	857007P	06/23/2021	22100348	062921ap	139.75
Invoice: 857007P						AUTOMOTIVE AND TRAILER EQUIPME			
					139.75 40013220 521508	Automotive Expenses			
						CHECK	136627 TOTAL:		225.19
136628	06/29/2021	PRTD	6815	WHITE TANKS GOJU RYU	062021	06/28/2021	22100898	062921ap	465.00
Invoice: 062021						SIC-Goju Ryu Karate class			
					465.00 10004160 520013	Contract Instruc-SIC			
						CHECK	136628 TOTAL:		465.00
136629	06/29/2021	PRTD	3024	PBC PHOENIX INC	515486	05/31/2021	22100550	062921ap	184.00
Invoice: 515486						WATER DEPT. - CUSTODIAL SERVIC			
					184.00 40013220 520019	Custodial Contract (PW)			
						CHECK	136629 TOTAL:		184.00
136630	06/29/2021	PRTD	6834	RILEY INDUSTRIAL SERVICES, INC.	121949	06/08/2021	22101141	062921ap	5,918.37
Invoice: 121949						SUNCANCE WRF ODOR SCRUBBER ROOF METAL WORK			
					5,918.37 40013222 520543	WW R&M			
						CHECK	136630 TOTAL:		5,918.37
136631	06/29/2021	PRTD	5455	RSINET LLC	5375	09/15/2020	22100105	062921ap	180.00
Invoice: 5375						FY 20/21 - AIRPORT DATA SVC. O			
					180.00 40103200 526121	On-line Subscriptions			
				RSINET LLC	5870	06/26/2021	22100105	062921ap	180.00
Invoice: 5870						FY 20/21 - AIRPORT DATA SVC. O			
					180.00 40103200 526121	On-line Subscriptions			
						CHECK	136631 TOTAL:		360.00
136632	06/29/2021	PRTD	1865	SALT RIVER EXTRACTION LLC	31477	06/10/2021	22100065	062921ap	3,057.45
Invoice: 31477						SLUDGE TRANSPORT TO LANDFILL			
					3,057.45 40003213 520585	Treatment Plant O&M			
						CHECK	136632 TOTAL:		3,057.45
136633	06/29/2021	PRTD	1896	SHAMROCK FOODS COMPANY	101174579	06/15/2021	22100039	062921ap	95.29
Invoice: 101174579						OPEN PO- Milk for senior meal			
					95.29 35754150 521502	Program Supplies/Equipment			
				SHAMROCK FOODS COMPANY	101181277	06/22/2021	22100039	062921ap	95.29
Invoice: 101181277						OPEN PO- Milk for senior meal			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
					95.29 35754150 521502	Program Supplies/Equipment			
								CHECK 136633 TOTAL:	190.58
136634	06/29/2021	PRTD	5436	SKAGGS COMPANIES INC	290_A_75002_1	06/22/2021	22100295	062921ap	2,172.50
Invoice: 290_A_75002_1						Station Uniforms			
					2,172.50 10002140 521922	Uniforms			
				SKAGGS COMPANIES INC	290_A_69861_4	06/23/2021	22100295	062921ap	134.30
Invoice: 290_A_69861_4						Station Uniforms			
					134.30 10002140 521922	Uniforms			
								CHECK 136634 TOTAL:	2,306.80
136635	06/29/2021	PRTD	3089	SOMERSET LANDSCAPE LLC	PHXW 226317	06/01/2021	22101099	062921ap	1,420.00
Invoice: PHXW 226317						Weed Control Service at Cemetery			
					1,420.00 50012140 520035	Landscaping Service			
								CHECK 136635 TOTAL:	1,420.00
136636	06/29/2021	PRTD	6161	SOUTHERN TIRE MART, LLC	6130047720	06/24/2021	22100395	062921ap	1,634.00
Invoice: 6130047720						TIRES AND TUBES (INCL. RECAPPE			
					1,214.53 10003171 521528	Tires			
					419.47 38103202 521508	Automotive Expenses			
				SOUTHERN TIRE MART, LLC	6130047712	06/25/2021	22100395	062921ap	857.94
Invoice: 6130047712						TIRES AND TUBES (INCL. RECAPPE			
					857.94 10003171 521528	Tires			
								CHECK 136636 TOTAL:	2,491.94
136637	06/29/2021	PRTD	6332	SOUTHWEST SKATING PARTNERS, LLC	053-68633	06/24/2021	22101305	062921ap	700.00
Invoice: 053-68633						Summer 2021 youth program field trips			
					700.00 10004153 520015	Contractual Svc BASE			
								CHECK 136637 TOTAL:	700.00
136638	06/29/2021	PRTD	1929	SOUTHWEST WELDING LLC	SW6636	06/21/2021	22101178	062921ap	3,515.74
Invoice: SW6636						Fabrication of Items for Training Facility			
					3,515.74 10002140 522156	Academy Training & Supplies			
								CHECK 136638 TOTAL:	3,515.74
136639	06/29/2021	PRTD	1944	STANDARD PRINTING COMPANY INC	263437	06/14/2021	22100185	062921ap	806.71
Invoice: 263437						PRINT AND MAIL SERVICES FOR UT			
					258.15 40003230 520037	Professional Services General			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
					258.15 40013230 520037	Professional Services General			
					290.41 40053205 523021	Public Education			
							CHECK	136639 TOTAL:	806.71
136640	06/29/2021	PRTD	5971	STANLEY CONSULTANTS, INC.	226053	09/26/2020	22001161	062921ap	24,903.31
Invoice: 226053						TO #2 CO #3 - CONSTRUCTION PHA			
					24,903.31 40013220 543043	N.Miller Rd Trunk Sewer			
							CHECK	136640 TOTAL:	24,903.31
136641	06/29/2021	PRTD	5093	STARGAZING FOR EVERYONE, LLC	SFE-06192021-SG	06/19/2021	22100466	062921ap	300.00
Invoice: SFE-06192021-SG						Special Interest Class Instruc			
					300.00 10004160 520013	Contract Instruc-SIC			
							CHECK	136641 TOTAL:	300.00
136642	06/29/2021	PRTD	6876	STATION AUTOMATION, INC.	2871	06/16/2021	22101338	062921ap	10,700.00
Invoice: 2871						Software System			
					10,700.00 10002140 526121	On-line Subscriptions			
							CHECK	136642 TOTAL:	10,700.00
136643	06/29/2021	PRTD	1661	STEVEN MCCLURE	June 2021	06/17/2021	22100085	062921ap	2,000.00
Invoice: June 2021						Legal Services - Public Defend			
					2,000.00 10002120 520016	Public Defender			
							CHECK	136643 TOTAL:	2,000.00
136644	06/29/2021	PRTD	6786	STRYKER SALES CORPORATION	9129594 DM	02/02/2021	22100889	062921ap	443,068.95
Invoice: 9129594 DM						Heart Monitor Upgrades			
					443,068.95 10002140 549999	Completed Capital			
				STRYKER SALES CORPORATION	9469324 DM	05/26/2021	22101304	062921ap	18,495.03
Invoice: 9469324 DM						AED Upgrades and Equipment			
					18,495.03 10002140 549999	Completed Capital			
							CHECK	136644 TOTAL:	461,563.98
136645	06/29/2021	PRTD	1976	SUTPHEN CORPORATION	40041633	06/15/2021	22100143	062921ap	118.19
Invoice: 40041633						AUTOMOTIVE ACCESSORIES FOR AUT			
					118.19 10003171 522155	Operational Supplies			
							CHECK	136645 TOTAL:	118.19

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136646	06/29/2021	PRTD	6855	TRICOR DIRECT INC	9346705021	05/10/2021	22101225	062921ap	5,793.77
Invoice: 9346705021					Special event sign poles				
				5,793.77 30584160 521502	Program Supplies/Equipment				
							CHECK	136646 TOTAL:	5,793.77
136647	06/29/2021	PRTD	2038	UNITED FIRE EQUIPMENT	748229	06/28/2021	22100205	062921ap	1,949.05
Invoice: 748229					Personal Protective Equipment				
				1,949.05 10002140 522150	Personal Protective Equipment				
				UNITED FIRE EQUIPMENT	748514	06/28/2021	22100205	062921ap	10,292.50
Invoice: 748514					Personal Protective Equipment				
				10,292.50 10002140 522150	Personal Protective Equipment				
				UNITED FIRE EQUIPMENT	747067	06/04/2021	22101298	062921ap	5,707.68
Invoice: 747067					FIRE PROTECTION EQUIPMENT AND SUPPLIES				
				5,707.68 10002140 522151	Fire Supplies				
							CHECK	136647 TOTAL:	17,949.23
136648	06/29/2021	PRTD	6095	VARGYAS NETWORKS, INC	1000233597	06/18/2021	22101347	062921ap	61,484.47
Invoice: 1000233597					HARDWARE TO REPLACE 10 WIRELESS LINKS				
				61,484.47 10001192 541111	Computer Hardware >$5,000				
							CHECK	136648 TOTAL:	61,484.47
136649	06/29/2021	PRTD	2061	VERN LEWIS WELDING SUPPLY INC	AV357759	06/21/2021	22101066	062921ap	6,001.44
Invoice: AV357759					WELDING EQUIPMENT AND SUPPLIES				
				6,001.44 10003171 541070	Other Equipment >$5,000				
				VERN LEWIS WELDING SUPPLY INC	AV357866	06/23/2021	22101066	062921ap	96.94
Invoice: AV357866					WELDING EQUIPMENT AND SUPPLIES				
				96.94 10003171 541070	Other Equipment >$5,000				
							CHECK	136649 TOTAL:	6,098.38
136650	06/29/2021	PRTD	5660	VERTECH INDUSTRIAL SYSTEMS, LLC	P200326.00-10704	06/17/2021	22100946	062921ap	16,302.50
Invoice: P200326.00-10704					TO #6 UPGRADES TARTESSO WASTEWATER SCADA				
				16,302.50 40011113 543132	Tartesso WRF SCADA Improvement				
				VERTECH INDUSTRIAL SYSTEMS, LLC	P210010.00-10721	06/22/2021	22100830	062921ap	86,435.22
Invoice: P210010.00-10721					Tartesso Water Treatment Plant				
				86,435.22 40001113 543142	Tartesso Water System SCADA				
							CHECK	136650 TOTAL:	102,737.72

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136651	06/29/2021	PRTD	5660	VERTECH INDUSTRIAL SYSTEMS, LLC	P200251.00-10720	06/22/2021	22100442	062921ap	1,451.62
Invoice: P200251.00-10720					TO #4 CENTRAL WRF SCADA REPLCE				
				1,451.62 40011113 543091	Central WRF SCADA Improvements				
								CHECK 136651 TOTAL:	1,451.62
136652	06/29/2021	PRTD	5425	VORTEX INDUSTRIES	20-1511302	05/21/2021	22100388	062921ap	1,140.13
Invoice: 20-1511302					FY 20/21 - CITYWIDE DOOR MAINT				
				1,140.13 10003172 520525	Hardware Maintenance				
								CHECK 136652 TOTAL:	1,140.13
136653	06/29/2021	PRTD	5190	WEST TECH LLC	21-10304-2	06/23/2021	22100058	062921ap	6,491.01
Invoice: 21-10304-2					REBUILD KITS FOR AIR RELIEFS A				
				594.76 40003213 520577	Reservoir/Booster Maint/Repair				
				1,497.79 40003214 520577	Reservoir/Booster Maint/Repair				
				1,009.95 40003215 520577	Reservoir/Booster Maint/Repair				
				1,497.79 40003216 520577	Reservoir/Booster Maint/Repair				
				1,890.72 40003218 520577	Reservoir/Booster Maint/Repair				
								CHECK 136653 TOTAL:	6,491.01
136654	06/29/2021	PRTD	6012	WOOD ENVIRONMENT & INFRASTRUCTURE	S65110227	06/17/2021	22100770	062921ap	60,893.00
Invoice: S65110227					TO #9 DESIGN ENGINEERING & PER				
				60,893.00 40011113 543050	SWRF Improvements				
				WOOD ENVIRONMENT & INFRASTRUCTURE	S65110228	06/24/2021	22100815	062921ap	9,270.00
Invoice: S65110228					TO #10 SUNDANCE CHLORINE VAULT REPLACEMENT				
				9,270.00 40001113 543108	SundanceWTP-Assess Chlo Vaults				
								CHECK 136654 TOTAL:	70,163.00

NUMBER OF CHECKS 96 *** CASH ACCOUNT TOTAL *** 2,201,066.90

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	96	2,201,066.90

*** GRAND TOTAL *** 2,201,066.90

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL / SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021 12 1271									
APP 1000-201000					Accounts Payable			844,998.57	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				2,201,066.90
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 3810-201000					Accounts Payable			15,643.59	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 5001-201000					Accounts Payable			7,258.98	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 3052-201000					Accounts Payable			479.20	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 4000-201000					Accounts Payable			197,281.17	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 4001-201000					Accounts Payable			1,004,986.80	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 3575-201000					Accounts Payable			7,465.18	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 5021-201000					Accounts Payable			110,104.83	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 8000-201000					Accounts Payable			845.01	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 8005-201000					Accounts Payable			447.01	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 8006-201000					Accounts Payable			2,770.28	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 8010-201000					Accounts Payable			2,282.10	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-201000					Accounts Payable			60.00	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 4010-201000					Accounts Payable			360.00	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 4005-201000					Accounts Payable			290.41	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
APP 3058-201000					Accounts Payable			5,793.77	
06/29/2021	062921ap	ap0629			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			2,201,066.90	2,201,066.90
APP 9999-201010					DT DF			2,201,006.90	
06/29/2021	062921ap	ap0629							
APP 1000-101010					Pooled Cash Equity				844,998.57
06/29/2021	062921ap	ap0629							
APP 3810-101010					Pooled Cash Equity				15,643.59
06/29/2021	062921ap	ap0629							
APP 5001-101010					Pooled Cash Equity				7,258.98
06/29/2021	062921ap	ap0629							
APP 3052-101010					Pooled Cash Equity				479.20

JOURNAL ENTRIES TO BE CREATED

YEAR PER JNL SRC ACCOUNT	EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
APP 4000-101010	06/29/2021	062921ap	ap0629			Pooled Cash Equity				197,281.17
APP 4001-101010	06/29/2021	062921ap	ap0629			Pooled Cash Equity				1,004,986.80
APP 3575-101010	06/29/2021	062921ap	ap0629			Pooled Cash Equity				7,465.18
APP 5021-101010	06/29/2021	062921ap	ap0629			Pooled Cash Equity				110,104.83
APP 8000-101010	06/29/2021	062921ap	ap0629			Pooled Cash Equity				845.01
APP 8005-101010	06/29/2021	062921ap	ap0629			Pooled Cash Equity				447.01
APP 8006-101010	06/29/2021	062921ap	ap0629			Pooled Cash Equity				2,770.28
APP 8010-101010	06/29/2021	062921ap	ap0629			Pooled Cash Equity				2,282.10
APP 4010-101010	06/29/2021	062921ap	ap0629			Pooled Cash Equity				360.00
APP 4005-101010	06/29/2021	062921ap	ap0629			Pooled Cash Equity				290.41
APP 3058-101010	06/29/2021	062921ap	ap0629			Pooled Cash Equity				5,793.77
						SYSTEM GENERATED ENTRIES TOTAL			2,201,006.90	2,201,006.90
						JOURNAL 2021/12/1271 TOTAL			4,402,073.80	4,402,073.80

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE	ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2021 12	1271	06/29/2021				
1000-101010				Pooled Cash Equity			844,998.57
1000-201000				Accounts Payable		844,998.57	
					FUND TOTAL	844,998.57	844,998.57
3052 Impound Fund	2021 12	1271	06/29/2021				
3052-101010				Pooled Cash Equity			479.20
3052-201000				Accounts Payable		479.20	
					FUND TOTAL	479.20	479.20
3058 Comm Services Programs	2021 12	1271	06/29/2021				
3058-101010				Pooled Cash Equity			5,793.77
3058-201000				Accounts Payable		5,793.77	
					FUND TOTAL	5,793.77	5,793.77
3575 Area Agency on Aging	2021 12	1271	06/29/2021				
3575-101010				Pooled Cash Equity			7,465.18
3575-201000				Accounts Payable		7,465.18	
					FUND TOTAL	7,465.18	7,465.18
3810 Highway User Revenue Fund	2021 12	1271	06/29/2021				
3810-101010				Pooled Cash Equity			15,643.59
3810-201000				Accounts Payable		15,643.59	
					FUND TOTAL	15,643.59	15,643.59
4000 Water Utility Fund	2021 12	1271	06/29/2021				
4000-101010				Pooled Cash Equity			197,281.17
4000-201000				Accounts Payable		197,281.17	
					FUND TOTAL	197,281.17	197,281.17
4001 Wastewater Fund	2021 12	1271	06/29/2021				
4001-101010				Pooled Cash Equity			1,004,986.80
4001-201000				Accounts Payable		1,004,986.80	
					FUND TOTAL	1,004,986.80	1,004,986.80
4005 Environmental Services	2021 12	1271	06/29/2021				
4005-101010				Pooled Cash Equity			290.41
4005-201000				Accounts Payable		290.41	
					FUND TOTAL	290.41	290.41
4010 Airport Fund	2021 12	1271	06/29/2021				

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE	ACCOUNT DESCRIPTION		DEBIT	CREDIT
4010-101010				Pooled Cash Equity			360.00
4010-201000				Accounts Payable		360.00	
					FUND TOTAL	360.00	360.00
5001 Cemetery Improvement Fund	2021 12	1271	06/29/2021				
5001-101010				Pooled Cash Equity			7,258.98
5001-201000				Accounts Payable		7,258.98	
					FUND TOTAL	7,258.98	7,258.98
5021 CIP General	2021 12	1271	06/29/2021				
5021-101010				Pooled Cash Equity			110,104.83
5021-201000				Accounts Payable		110,104.83	
					FUND TOTAL	110,104.83	110,104.83
8000 Sundance CFD O&M	2021 12	1271	06/29/2021				
8000-101010				Pooled Cash Equity			845.01
8000-201000				Accounts Payable		845.01	
					FUND TOTAL	845.01	845.01
8005 Westpark CFD O&M	2021 12	1271	06/29/2021				
8005-101010				Pooled Cash Equity			447.01
8005-201000				Accounts Payable		447.01	
					FUND TOTAL	447.01	447.01
8006 Fest Ranch CFD O&M	2021 12	1271	06/29/2021				
8006-101010				Pooled Cash Equity			2,770.28
8006-201000				Accounts Payable		2,770.28	
					FUND TOTAL	2,770.28	2,770.28
8010 Watson Rd CFD O&M	2021 12	1271	06/29/2021				
8010-101010				Pooled Cash Equity			2,282.10
8010-201000				Accounts Payable		2,282.10	
					FUND TOTAL	2,282.10	2,282.10
9999 Pooled Cash	2021 12	1271	06/29/2021				
9999-104000				Cash in Bank - Checking			2,201,066.90
9999-201000				Accounts Payable		60.00	
9999-201010				DT DF		2,201,006.90	
					FUND TOTAL	2,201,066.90	2,201,066.90

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
1000	General Fund		844,998.57
3052	Impound Fund		479.20
3058	Comm Services Programs		5,793.77
3575	Area Agency on Aging		7,465.18
3810	Highway User Revenue Fund		15,643.59
4000	Water Utility Fund		197,281.17
4001	Wastewater Fund		1,004,986.80
4005	Environmental Services		290.41
4010	Airport Fund		360.00
5001	Cemetery Improvement Fund		7,258.98
5021	CIP General		110,104.83
8000	Sundance CFD O&M		845.01
8005	Westpark CFD O&M		447.01
8006	Fest Ranch CFD O&M		2,770.28
8010	Watson Rd CFD O&M		2,282.10
9999	Pooled Cash	2,201,006.90	
	TOTAL	2,201,006.90	2,201,006.90

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136680	06/30/2021	PRTD	6820	1582, LLC	123	06/23/2021	22101097	063021ap	2,500.00
Invoice: 123						Annual Staff Physicals			
					2,500.00 10002140 520029	Pre-Employment Testing			
						CHECK	136680 TOTAL:		2,500.00
136681	06/30/2021	PRTD	5566	ACRO SERVICE CORPORATION	1349705	06/20/2021	22101221	063021ap	727.75
Invoice: 1349705						OPEN PO - Support Services			
					727.75 10002121 520012	Contract Labor			
						CHECK	136681 TOTAL:		727.75
136682	06/30/2021	PRTD	5566	ACRO SERVICE CORPORATION	1349703	06/20/2021	22100150	063021ap	239.60
Invoice: 1349703						Open PO - Hearing Officer - Ja			
					239.60 30522121 510001	Salaries and Wages			
				ACRO SERVICE CORPORATION	1349706	06/20/2021	22100149	063021ap	171.54
Invoice: 1349706						Open PO - Temp. Dispatchers			
					171.54 10002121 520012	Contract Labor			
				ACRO SERVICE CORPORATION	1349704	06/20/2021	22100055	063021ap	668.88
Invoice: 1349704						Temporary Labor for Water Admi			
					334.44 40003210 520037	Professional Services General			
					334.44 40013220 520037	Professional Services General			
						CHECK	136682 TOTAL:		1,080.02
136683	06/30/2021	PRTD	6665	ASPIN/MOHAVE	21B08700	06/28/2021	22100051	063021ap	4,759.58
Invoice: 21B08700						OPEN PO- Food & supplies for s			
					4,759.58 35754150 521502	Program Supplies/Equipment			
						CHECK	136683 TOTAL:		4,759.58
136684	06/30/2021	PRTD	1043	ASSI SECURITY OF ARIZONA	52210	06/29/2021	22101159	063021ap	10,876.98
Invoice: 52210						CHARMAN BLDG INSTALLS AND MOVES OF BADGE READERS			
					10,876.98 10001189 520018	General Contractual Services			
				ASSI SECURITY OF ARIZONA	52215	06/29/2021	22101148	063021ap	6,115.01
Invoice: 52215						Water Treatment Plants Badge Access Controls			
					6,115.01 40001113 543139	Access Control Wtr Prod Well			
				ASSI SECURITY OF ARIZONA	52214	06/29/2021	22101148	063021ap	7,782.93
Invoice: 52214						Water Treatment Plants Badge Access Controls			
					7,782.93 40001113 543139	Access Control Wtr Prod Well			
				ASSI SECURITY OF ARIZONA	52213	06/29/2021	22101148	063021ap	8,060.16
Invoice: 52213						Water Treatment Plants Badge Access Controls			
					8,060.16 40001113 543139	Access Control Wtr Prod Well			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
				ASSI SECURITY OF ARIZONA	52205	06/24/2021	22101217	063021ap	18,643.23
Invoice: 52205					BUCKEYE WWTP ACCESS CONTROL UPGRADES				
				18,643.23	40011113 543138 Access Control Wastewater Plnt				
				ASSI SECURITY OF ARIZONA	52209	06/29/2021	22101217	063021ap	9,121.88
Invoice: 52209					BUCKEYE WWTP ACCESS CONTROL UPGRADES				
				9,121.88	40011113 543138 Access Control Wastewater Plnt				
				ASSI SECURITY OF ARIZONA	52208	06/29/2021	22101217	063021ap	13,209.31
Invoice: 52208					BUCKEYE WWTP ACCESS CONTROL UPGRADES				
				13,209.31	40011113 543138 Access Control Wastewater Plnt				
							CHECK	136684 TOTAL:	73,809.50
136685	06/30/2021	PRTD	1177	ARIZONA PUBLIC SERVICE CO	AR0360001263	06/29/2021	22101126	063021ap	35,003.33
Invoice: AR0360001263					1/3 Participation of APS Brine Management Study				
				35,003.33	40003210 520037 Professional Services General				
							CHECK	136685 TOTAL:	35,003.33
136686	06/30/2021	PRTD	1183	AZTEC ENGINEERING GROUP, INC.	201604	06/30/2021	22101361	063021ap	1,536.00
Invoice: 201604					AZTEC 1-10 Channel - Perryville Rd Basin DCR				
				1,536.00	10005185 520037 Professional Services General				
							CHECK	136686 TOTAL:	1,536.00
136687	06/30/2021	PRTD	3021	CINTAS CORPORATION NO 3	4088211931	06/24/2021	22100103	063021ap	9.72
Invoice: 4088211931					FY 20/21 - UNIFORMS OPEN PO				
				9.72	40053205 521922 Uniforms				
				CINTAS CORPORATION NO 3	4088211939	06/24/2021	22100277	063021ap	99.27
Invoice: 4088211939					FY 20/21 - UNIFORM RENTAL				
				99.27	38103202 521922 Uniforms				
				CINTAS CORPORATION NO 3	4088212013	06/24/2021	22100297	063021ap	71.64
Invoice: 4088212013					FY 20/21 - FLEET UNIFORMS				
				71.64	10003171 521922 Uniforms				
							CHECK	136687 TOTAL:	180.63
136688	06/30/2021	PRTD	1303	CITY ELECTRIC SUPPLY	GOO/063818	06/23/2021	22100135	063021ap	1,992.29
Invoice: GOO/063818					FY 20/21 - CITYWIDE LIGHTING S				
				1,992.29	10003172 522155 Operational Supplies				
				CITY ELECTRIC SUPPLY	GOO/063817	06/23/2021	22100134	063021ap	1,344.70
Invoice: GOO/063817					FY 20/21 - SUNDANCE LIGHTING S				
				1,344.70	10003176 521720 Shop Supplies				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
						CHECK	136688	TOTAL:	3,336.99
136689	06/30/2021	PRTD	6694	COMMUNITY YOUTH BALLROOM DANCE ST 062021		06/30/2021	22100463	063021ap	450.00
	Invoice: 062021				450.00 10004160 520013	Special Interest Class Instruc Contract Instruc-SIC			
						CHECK	136689	TOTAL:	450.00
136690	06/30/2021	PRTD	1343	CUMMINS ROCKY MOUNTAIN, LLC	54-76804	06/23/2021	22100290	063021ap	5,388.71
	Invoice: 54-76804				5,388.71 40003218 520515	EQUIPMENT MAINTENANCE AND REPA Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-77383	06/25/2021	22100290	063021ap	5,862.78
	Invoice: 54-77383				5,862.78 40003213 520515	EQUIPMENT MAINTENANCE AND REPA Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-77269	06/24/2021	22100769	063021ap	1,151.95
	Invoice: 54-77269				1,151.95 40003213 520515	EQUIPMENT MAINTENANCE AND REPA Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-77267	06/24/2021	22100769	063021ap	1,002.70
	Invoice: 54-77267				1,002.70 40003218 520515	EQUIPMENT MAINTENANCE AND REPA Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-76735	06/22/2021	22100769	063021ap	774.19
	Invoice: 54-76735				774.19 40003213 520515	EQUIPMENT MAINTENANCE AND REPA Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-76731	06/22/2021	22100769	063021ap	972.32
	Invoice: 54-76731				972.32 40003216 520515	EQUIPMENT MAINTENANCE AND REPA Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-76730	06/22/2021	22100769	063021ap	972.32
	Invoice: 54-76730				972.32 40003216 520515	EQUIPMENT MAINTENANCE AND REPA Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-76728	06/22/2021	22100769	063021ap	1,078.68
	Invoice: 54-76728				1,078.68 40003213 520515	EQUIPMENT MAINTENANCE AND REPA Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-75900	06/17/2021	22100769	063021ap	797.25
	Invoice: 54-75900				797.25 40003218 520515	EQUIPMENT MAINTENANCE AND REPA Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-76161	06/18/2021	22100769	063021ap	726.95
	Invoice: 54-76161				726.95 40003218 520515	EQUIPMENT MAINTENANCE AND REPA Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-75901	06/17/2021	22100769	063021ap	799.81

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
Invoice: 54-75901						EQUIPMENT MAINTENANCE AND REPA			
					799.81 40003218 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-77450	06/25/2021	22100769	063021ap	895.07
Invoice: 54-77450						EQUIPMENT MAINTENANCE AND REPA			
					895.07 40003217 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-76970	06/23/2021	22100769	063021ap	1,151.95
Invoice: 54-76970						EQUIPMENT MAINTENANCE AND REPA			
					1,151.95 40003216 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-76971	06/23/2021	22100769	063021ap	972.32
Invoice: 54-76971						EQUIPMENT MAINTENANCE AND REPA			
					972.32 40003216 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-77005	06/23/2021	22100769	063021ap	707.99
Invoice: 54-77005						EQUIPMENT MAINTENANCE AND REPA			
					707.99 40003214 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-76160	06/18/2021	22100769	063021ap	774.19
Invoice: 54-76160						EQUIPMENT MAINTENANCE AND REPA			
					774.19 40003213 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-75903	06/17/2021	22100769	063021ap	899.72
Invoice: 54-75903						EQUIPMENT MAINTENANCE AND REPA			
					899.72 40003213 520515	Generator R & M			
				CUMMINS ROCKY MOUNTAIN, LLC	54-75902	06/17/2021	22100769	063021ap	774.19
Invoice: 54-75902						EQUIPMENT MAINTENANCE AND REPA			
					774.19 40003213 520515	Generator R & M			
								CHECK 136690 TOTAL:	25,703.09
136691	06/30/2021	PRTD	5295	DELL MARKETING L.P.	10498377750	06/24/2021	22101214	063021ap	4,075.20
Invoice: 10498377750						Computer for ICAC Grant			
					4,075.20 35732121 523123	COPhx-Internet Cr Ag Children			
								CHECK 136691 TOTAL:	4,075.20
136692	06/30/2021	PRTD	1388	E-Z TOWING & RECOVERY LLC	262213	06/10/2021	22100079	063021ap	168.50
Invoice: 262213						Open PO - Towing - PD			
					168.50 10002121 520033	Vehicle Towing			
				E-Z TOWING & RECOVERY LLC	262703	06/15/2021	22100079	063021ap	271.25
Invoice: 262703						Open PO - Towing - PD			
					271.25 10002121 520033	Vehicle Towing			
								CHECK 136692 TOTAL:	439.75

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136693	06/30/2021	PRTD	3032	ECD SYSTEMS LLC	16616	05/12/2021	22100137	063021ap	26.00
Invoice: 16616					FY 20/21 - SUNDANCE FIRE ALARM				
				26.00	10003176 526121 On-line Subscriptions				
				ECD SYSTEMS LLC	16617	05/12/2021	22100137	063021ap	26.00
Invoice: 16617					FY 20/21 - SUNDANCE FIRE ALARM				
				26.00	10003176 526121 On-line Subscriptions				
				ECD SYSTEMS LLC	16618	05/12/2021	22100137	063021ap	26.00
Invoice: 16618					FY 20/21 - SUNDANCE FIRE ALARM				
				26.00	10003176 526121 On-line Subscriptions				
								CHECK 136693 TOTAL:	78.00
136694	06/30/2021	PRTD	6346	ELEVATE TRAMPOLINE PARK	06292021	06/29/2021	22101308	063021ap	206.72
Invoice: 06292021					Summer 2021 youth programs field trips				
				206.72	10004153 520015 Contractual Svc BASE				
								CHECK 136694 TOTAL:	206.72
136695	06/30/2021	PRTD	5388	ENNIS-FLINT, INC	411898	04/23/2021	22100239	063021ap	1,072.51
Invoice: 411898					FY 20/21 - STRIPING MATERIAL				
				1,072.51	38103202 521715 Signs & Markings				
								CHECK 136695 TOTAL:	1,072.51
136696	06/30/2021	PRTD	1432	FERGUSON WATERWORKS #3083	0430785	06/24/2021	22100165	063021ap	2,177.11
Invoice: 0430785					EQUIPMENT MAINTENANCE AND REPA				
				1,866.83	40003212 520577 Reservoir/Booster Maint/Repair				
				310.28	40003213 520577 Reservoir/Booster Maint/Repair				
				FERGUSON WATERWORKS #3083	0430802	06/29/2021	22100165	063021ap	1,409.30
Invoice: 0430802					EQUIPMENT MAINTENANCE AND REPA				
				237.32	40003214 520577 Reservoir/Booster Maint/Repair				
				1,171.98	40003215 520577 Reservoir/Booster Maint/Repair				
				FERGUSON WATERWORKS #3083	0430149	06/21/2021	22100165	063021ap	3,986.93
Invoice: 0430149					EQUIPMENT MAINTENANCE AND REPA				
				2,224.25	40003213 520577 Reservoir/Booster Maint/Repair				
				1,762.68	40003214 520577 Reservoir/Booster Maint/Repair				
				FERGUSON WATERWORKS #3083	0430794	06/22/2021	22100165	063021ap	5,148.66
Invoice: 0430794					EQUIPMENT MAINTENANCE AND REPA				
				5,148.66	40003213 520577 Reservoir/Booster Maint/Repair				
								CHECK 136696 TOTAL:	12,722.00

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136697	06/30/2021	PRTD	1440	FLEETPRIDE, INC	76463058	06/23/2021	22100288	063021ap	85.79
Invoice: 76463058					AUTOMOTIVE / EQUIPMENT AND PAR				
					29.94 10003171 522155 Operational Supplies				
					55.85 40003210 521508 Automotive Expenses				
				FLEETPRIDE, INC	76743726	06/28/2021	22100288	063021ap	83.33
Invoice: 76743726					AUTOMOTIVE / EQUIPMENT AND PAR				
					83.33 40003210 521508 Automotive Expenses				
								CHECK 136697 TOTAL:	169.12
136698	06/30/2021	PRTD	6551	G4S SECURE SOLUTIONS USA INC	11863337	06/27/2021	22100756	063021ap	837.36
Invoice: 11863337					SECURITY OFFICER SERVICES CONT				
					418.68 40003210 520037 Professional Services General				
					418.68 40013220 520037 Professional Services General				
				G4S SECURE SOLUTIONS USA INC	11863326	06/27/2021	22100167	063021ap	1,023.44
Invoice: 11863326					SECURITY OFFICER SERVICES CONT				
					1,023.44 10002121 520022 Security Services				
								CHECK 136698 TOTAL:	1,860.80
136699	06/30/2021	PRTD	1497	HAMILTON'S TOWING	105122	05/31/2021	22100078	063021ap	707.00
Invoice: 105122					Open PO- Towing (PD)				
					707.00 10002121 520033 Vehicle Towing				
				HAMILTON'S TOWING	105123	05/31/2021	22100078	063021ap	107.00
Invoice: 105123					Open PO- Towing (PD)				
					107.00 10002121 520033 Vehicle Towing				
				HAMILTON'S TOWING	105124	05/31/2021	22100078	063021ap	107.00
Invoice: 105124					Open PO- Towing (PD)				
					107.00 10002121 520033 Vehicle Towing				
				HAMILTON'S TOWING	105121	06/03/2021	22100078	063021ap	395.50
Invoice: 105121					Open PO- Towing (PD)				
					395.50 10002121 520033 Vehicle Towing				
				HAMILTON'S TOWING	105125	06/06/2021	22100078	063021ap	91.00
Invoice: 105125					Open PO- Towing (PD)				
					91.00 10002121 520033 Vehicle Towing				
				HAMILTON'S TOWING	105126	06/06/2021	22100078	063021ap	91.00
Invoice: 105126					Open PO- Towing (PD)				
					91.00 10002121 520033 Vehicle Towing				
								CHECK 136699 TOTAL:	1,498.50

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136700	06/30/2021	PRTD	1016	HAYDON BUILDING CORP	Pay App 15	06/30/2021	22001332	063021ap	432,982.78
	Invoice: Pay App 15					CMAR N MILLER RD TRUNK SEWER			
				432,982.78 40013220 543043		N.Miller Rd Trunk Sewer			
				HAYDON BUILDING CORP	8522	06/29/2021	22101281	063021ap	94,440.00
	Invoice: 8522					DO #1 REMOVE & REPLACE IRRIG BOXES & SCREW GATES			
				94,440.00 40003211 520586		Irrigation Systems Parts/Mater			
						CHECK	136700 TOTAL:		527,422.78
136701	06/30/2021	PRTD	1513	HILL BROTHERS CHEMICAL COMPANY	07098107	06/23/2021	22100043	063021ap	185.16
	Invoice: 07098107					CHEMICALS TO TREAT AND DISINFE			
				185.16 40003214 521540		Chemicals			
				HILL BROTHERS CHEMICAL COMPANY	07098110	06/23/2021	22100043	063021ap	603.27
	Invoice: 07098110					CHEMICALS TO TREAT AND DISINFE			
				603.27 40003213 521540		Chemicals			
				HILL BROTHERS CHEMICAL COMPANY	07098113	06/23/2021	22100043	063021ap	430.06
	Invoice: 07098113					CHEMICALS TO TREAT AND DISINFE			
				430.06 40003216 521540		Chemicals			
				HILL BROTHERS CHEMICAL COMPANY	07098108	06/23/2021	22100043	063021ap	1,354.79
	Invoice: 07098108					CHEMICALS TO TREAT AND DISINFE			
				1,354.79 40003218 521540		Chemicals			
				HILL BROTHERS CHEMICAL COMPANY	07098101	06/23/2021	22100043	063021ap	209.06
	Invoice: 07098101					CHEMICALS TO TREAT AND DISINFE			
				209.06 40003215 521540		Chemicals			
						CHECK	136701 TOTAL:		2,782.34
136702	06/30/2021	PRTD	1522	HUGHES FIRE EQUIPMENT INC	564891	06/21/2021	22100118	063021ap	510.53
	Invoice: 564891					AUTOMOTIVE ACCESSORIES FOR AUT			
				510.53 10003171 522155		Operational Supplies			
						CHECK	136702 TOTAL:		510.53
136703	06/30/2021	PRTD	1548	INSTRUMENTATION AND CONTROLS, LLC	27101	06/24/2021	22101297	063021ap	6,153.53
	Invoice: 27101					NORTH AIRPORT - REPLACEMENT CHLORINE FLOW METER			
				6,153.53 40003216 520585		Treatment Plant O&M			
						CHECK	136703 TOTAL:		6,153.53
136704	06/30/2021	PRTD	1571	JAMES, COOKE & HOBSON, INC	366798	06/25/2021	22100400	063021ap	892.32
	Invoice: 366798					KAESER BLOWER PARTS CENTRAL/SU			
				892.32 40013222 520543		WW R&M			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136704 TOTAL:	892.32
136705	06/30/2021	PRTD	5363	K.P. VENTURES	9588	06/28/2021	22101154	063021ap	28,233.12
Invoice: 9588						PULL, INSPECT, VIDEO FOR FESTIVAL RANCH WELL #1			
					28,233.12 40003215 520581	Well Maintenance Repair			
							CHECK	136705 TOTAL:	28,233.12
136706	06/30/2021	PRTD	6392	LITCHFIELD TACTICAL, LLC	20210628001	06/28/2021	22100383	063021ap	960.00
Invoice: 20210628001						OPEN PO - AZ Post Physical Exa			
					960.00 10002121 520029	Pre-Employment Testing			
							CHECK	136706 TOTAL:	960.00
136707	06/30/2021	PRTD	1621	LOGICALIS, INC	6302021	06/30/2021	22101226	063021ap	4,621.80
Invoice: 6302021						CISCO SWITCHES AND POWER SUPPLIES			
					4,621.80 10001192 521523	Equipment <$5,000			
							CHECK	136707 TOTAL:	4,621.80
136708	06/30/2021	PRTD	6078	MESA GOLFLAND, LTD	00201	06/28/2021	22101309	063021ap	7,098.40
Invoice: 00201						Summer 2021 youth programs field trip			
					7,098.40 10004153 520015	Contractual Svc BASE			
							CHECK	136708 TOTAL:	7,098.40
136709	06/30/2021	PRTD	5018	METRO FIRE EQUIPMENT INC	IN00322309	06/17/2021	22101263	063021ap	993.00
Invoice: IN00322309						ANNUAL FIRE INSPECTION			
					993.00 10003172 520037	Professional Services General			
				METRO FIRE EQUIPMENT INC	IN00321054	06/09/2021	22101263	063021ap	95.00
Invoice: IN00321054						ANNUAL FIRE INSPECTION			
					95.00 10003172 520037	Professional Services General			
							CHECK	136709 TOTAL:	1,088.00
136710	06/30/2021	PRTD	5245	MMI TANK & INDUSTRIAL SERVICES IN	2101203	06/23/2021	22100884	063021ap	38,168.50
Invoice: 2101203						North Airport WTF Vessel A replacement			
					38,168.50 40033210 549999	Completed Capital			
							CHECK	136710 TOTAL:	38,168.50

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136711	06/30/2021	PRTD	1684	MOTOROLA SOLUTIONS, INC	1187055341	06/18/2021	22101271	063021ap	44,119.37
Invoice: 1187055341						Portable Tri-Band Radios			
				44,119.37 10002121 541070		Other Equipment >$5,000			
							CHECK	136711 TOTAL:	44,119.37
136712	06/30/2021	PRTD	6451	NESTLE WATERS NORTH AMERICA	01e6700459139	06/02/2021	22100724	063021ap	92.30
Invoice: 01e6700459139						Open P.O. for Nestle water del			
				92.30 10001101 521501		Office Supplies			
							CHECK	136712 TOTAL:	92.30
136713	06/30/2021	PRTD	6698	PALOMA READY MIX AND MATERIALS, L	14799	06/22/2021	22100432	063021ap	636.06
Invoice: 14799						FY 20/21 - CONCRETE SIDEWALK R			
				636.06 38103202 520502		Street Overlay R & M			
							CHECK	136713 TOTAL:	636.06
136714	06/30/2021	PRTD	3024	PBC PHOENIX INC	509144	03/31/2021	22100550	063021ap	398.34
Invoice: 509144						WATER DEPT. - CUSTODIAL SERVIC			
				398.34 40013220 520019		Custodial Contract (PW)			
				PBC PHOENIX INC	509153	03/31/2021	22100550	063021ap	230.00
Invoice: 509153						WATER DEPT. - CUSTODIAL SERVIC			
				230.00 40013220 520019		Custodial Contract (PW)			
				PBC PHOENIX INC	515479	05/31/2021	22100550	063021ap	354.08
Invoice: 515479						WATER DEPT. - CUSTODIAL SERVIC			
				354.08 40013220 520019		Custodial Contract (PW)			
				PBC PHOENIX INC	515483	05/31/2021	22100550	063021ap	177.04
Invoice: 515483						WATER DEPT. - CUSTODIAL SERVIC			
				177.04 40013220 520019		Custodial Contract (PW)			
				PBC PHOENIX INC	515485	05/31/2021	22100550	063021ap	184.00
Invoice: 515485						WATER DEPT. - CUSTODIAL SERVIC			
				184.00 40013220 520019		Custodial Contract (PW)			
				PBC PHOENIX INC	516488	06/30/2021	22100550	063021ap	230.00
Invoice: 516488						WATER DEPT. - CUSTODIAL SERVIC			
				230.00 40013220 520019		Custodial Contract (PW)			
				PBC PHOENIX INC	516485	06/30/2021	22100550	063021ap	177.04
Invoice: 516485						WATER DEPT. - CUSTODIAL SERVIC			
				177.04 40013220 520019		Custodial Contract (PW)			
				PBC PHOENIX INC	516484	06/30/2021	22100550	063021ap	354.08
Invoice: 516484						WATER DEPT. - CUSTODIAL SERVIC			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC				
				354.08 40013220 520019	Custodial Contract (PW)			
			PBC PHOENIX INC	516487	06/30/2021	22100550	063021ap	230.00
Invoice: 516487				WATER DEPT. - CUSTODIAL SERVIC				
				230.00 40013220 520019	Custodial Contract (PW)			
			PBC PHOENIX INC	516486	06/30/2021	22100680	063021ap	920.00
Invoice: 516486				SKYLINE PARK CUSTODIAL CONTRAC				
				920.00 10004155 520019	Custodial Contract			
			PBC PHOENIX INC	518855	06/30/2021	22100174	063021ap	3,973.11
Invoice: 518855				FY 20/21 - CITYWIDE CUSTODIAL				
				3,973.11 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	518845	06/30/2021	22100174	063021ap	500.50
Invoice: 518845				FY 20/21 - CITYWIDE CUSTODIAL				
				500.50 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	518846	06/30/2021	22100174	063021ap	1,278.68
Invoice: 518846				FY 20/21 - CITYWIDE CUSTODIAL				
				1,278.68 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	518844	06/30/2021	22100174	063021ap	623.22
Invoice: 518844				FY 20/21 - CITYWIDE CUSTODIAL				
				623.22 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	516480	06/30/2021	22100177	063021ap	1,273.22
Invoice: 516480				FY 20/21 - LIBRARY CUSTODIAL S				
				1,273.22 10003177 520019	Custodial Contract			
			PBC PHOENIX INC	516474	06/30/2021	22100174	063021ap	526.14
Invoice: 516474				FY 20/21 - CITYWIDE CUSTODIAL				
				526.14 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	516479	06/30/2021	22100179	063021ap	3,942.18
Invoice: 516479				FY 20/21 - CITY HALL CUSTODIAL				
				3,942.18 10003174 520019	Custodial Contract			
			PBC PHOENIX INC	516473	06/30/2021	22100174	063021ap	946.98
Invoice: 516473				FY 20/21 - CITYWIDE CUSTODIAL				
				946.98 10003172 520019	Custodial Contract			
			PBC PHOENIX INC	516478	06/30/2021	22100178	063021ap	458.82
Invoice: 516478				FY 20/21 - CHARMAN BLDG CUSTOD				
				458.82 10003175 520019	Custodial Contract			
			PBC PHOENIX INC	516482	06/30/2021	22100177	063021ap	2,315.56
Invoice: 516482				FY 20/21 - LIBRARY CUSTODIAL S				
				2,315.56 10003177 520019	Custodial Contract			
			PBC PHOENIX INC	516476	06/30/2021	22100181	063021ap	747.36
Invoice: 516476				FY 20/21 - WATER RESOURCES CUS				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
					747.36 40003210 520019 Custodial Contract (PW)				
				PBC PHOENIX INC	516471	06/30/2021	22100174	063021ap	136.56
				Invoice: 516471	FY 20/21 - CITYWIDE CUSTODIAL				
					136.56 10003172 520019 Custodial Contract				
				PBC PHOENIX INC	516489	06/30/2021	22100174	063021ap	398.34
				Invoice: 516489	FY 20/21 - CITYWIDE CUSTODIAL				
					398.34 10003172 520019 Custodial Contract				
								CHECK 136714 TOTAL:	20,375.25
136715	06/30/2021	PRTD	6585	PCL CONSTRUCTION, INC	22100957-3	06/30/2021	22100957	063021ap	389,605.61
				Invoice: 22100957-3	DO #5 FESTIVAL RANCH WRF IMPROVEMENTS				
					389,605.61 40011113 543129 Festival WRF Improvements				
				PCL CONSTRUCTION, INC	22101280-1	06/30/2021	22101280	063021ap	101,650.44
				Invoice: 22101280-1	DO #7 NE LIFT STATION ODOR SCRUBBER				
					101,650.44 40011113 543146 NE Lift Station Odor Scrubber				
				PCL CONSTRUCTION, INC	22101279 - 1	06/30/2021	22101279	063021ap	136,986.30
				Invoice: 22101279 - 1	DO #6 TARTESSO WRF				
					136,986.30 40011113 543144 Tartesso WRF Improvements				
								CHECK 136715 TOTAL:	628,242.35
136716	06/30/2021	PRTD	1769	PIONEER DISTRIBUTING CO INC	449615	06/15/2021	22100387	063021ap	798.83
				Invoice: 449615	FUEL, OIL, GREASE AND LUBRICAN				
					798.83 10003171 522155 Operational Supplies				
				PIONEER DISTRIBUTING CO INC	449616	06/15/2021	22100387	063021ap	644.88
				Invoice: 449616	FUEL, OIL, GREASE AND LUBRICAN				
					644.88 10003171 522155 Operational Supplies				
								CHECK 136716 TOTAL:	1,443.71
136717	06/30/2021	PRTD	5574	PRECISION INTEGRATED SYSTEMS, LLC	2454	06/25/2021	22100064	063021ap	363.59
				Invoice: 2454	PROMINENT MAINTENACE KITS, ANA				
					363.59 40003218 520585 Treatment Plant O&M				
								CHECK 136717 TOTAL:	363.59
136718	06/30/2021	PRTD	5374	RDO EQUIPMENT CO.	P2887931	06/24/2021	22100219	063021ap	9,204.49
				Invoice: P2887931	FY 20/21 - BACKHOE MATERIALS				
					9,204.49 38103202 521508 Automotive Expenses				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136718 TOTAL:	9,204.49
136719	06/30/2021	PRTD	1847	RODEO FORD INC	151057	05/26/2021	22100433	063021ap	99.67
Invoice: 151057					AUTOMOTIVE AND TRAILER EQUIPME				
				99.67	38103202 521508 Automotive Expenses				
				RODEO FORD INC	151091	05/26/2021	22100433	063021ap	92.39
Invoice: 151091					AUTOMOTIVE AND TRAILER EQUIPME				
				92.39	38103202 521508 Automotive Expenses				
				RODEO FORD INC	151710	06/10/2021	22100433	063021ap	99.03
Invoice: 151710					AUTOMOTIVE AND TRAILER EQUIPME				
				99.03	38103202 521508 Automotive Expenses				
				RODEO FORD INC	480876	06/21/2021	22100433	063021ap	300.71
Invoice: 480876					AUTOMOTIVE AND TRAILER EQUIPME				
				300.71	38103202 521508 Automotive Expenses				
				RODEO FORD INC	148514	04/07/2021	22100433	063021ap	565.48
Invoice: 148514					AUTOMOTIVE AND TRAILER EQUIPME				
				565.48	10003171 522155 Operational Supplies				
				RODEO FORD INC	152512	06/28/2021	22100433	063021ap	141.42
Invoice: 152512					AUTOMOTIVE AND TRAILER EQUIPME				
				141.42	10003171 522155 Operational Supplies				
							CHECK	136719 TOTAL:	1,298.70
136720	06/30/2021	PRTD	5455	RSINET LLC	5542	01/03/2021	22100105	063021ap	180.00
Invoice: 5542					FY 20/21 - AIRPORT DATA SVC. O				
				180.00	40103200 526121 On-line Subscriptions				
				RSINET LLC	5694	04/11/2021	22100105	063021ap	180.00
Invoice: 5694					FY 20/21 - AIRPORT DATA SVC. O				
				180.00	40103200 526121 On-line Subscriptions				
							CHECK	136720 TOTAL:	360.00
136721	06/30/2021	PRTD	1865	SALT RIVER EXTRACTION LLC	31565	06/17/2021	22100065	063021ap	2,038.30
Invoice: 31565					SLUDGE TRANSPORT TO LANDFILL				
				2,038.30	40003216 520585 Treatment Plant O&M				
							CHECK	136721 TOTAL:	2,038.30
136722	06/30/2021	PRTD	1871	SANDERSON FORD LINCOLN MERCURY	F21448	06/16/2021	22101315	063021ap	32,837.10
Invoice: F21448					TRUCKS (INCLUDING, DIESEL, GASOLINE, ELECTRIC, HYB				
				32,837.10	40003210 541210 Automobiles				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136722 TOTAL:	32,837.10
136723	06/30/2021	PRTD	1896	SHAMROCK FOODS COMPANY	101189468	06/29/2021	22100039	063021ap	367.61
	Invoice: 101189468					OPEN PO- Milk for senior meal			
					367.61 35754150 521502	Program Supplies/Equipment			
							CHECK	136723 TOTAL:	367.61
136724	06/30/2021	PRTD	6553	SUPERCHARGED ELECTRIC INC.	21021	06/28/2021	22101033	063021ap	19,285.00
	Invoice: 21021					AIRPORT COMMON HANGAR- ELECTRICAL			
					19,285.00 10003172 520512	Building Repairs			
							CHECK	136724 TOTAL:	19,285.00
136725	06/30/2021	PRTD	6316	TARGETSOLUTIONS LEARNING LLC	INV22772	04/30/2021	22100279	063021ap	9,952.73
	Invoice: INV22772					Online Training - EMS/Fire			
					9,952.73 10002140 526121	On-line Subscriptions			
							CHECK	136725 TOTAL:	9,952.73
136726	06/30/2021	PRTD	1146	THE W.W. WILLIAMS COMPANY LLC	01447046P	05/28/2021	22101357	063021ap	1,349.53
	Invoice: 01447046P					AUTOMOTIVE AND TRAILER BODIES, BODY ACCESSORIES, A			
					1,349.53 40003210 521508	Automotive Expenses			
							CHECK	136726 TOTAL:	1,349.53
136727	06/30/2021	PRTD	6387	TIMOTHY D FREUND	2021-002	06/28/2021	22100604	063021ap	3,600.00
	Invoice: 2021-002					Medical Support Services Open			
					3,600.00 10002121 520012	Contract Labor			
							CHECK	136727 TOTAL:	3,600.00
136728	06/30/2021	PRTD	5660	VERTECH INDUSTRIAL SYSTEMS, LLC	P200326.00-10738	06/29/2021	22100946	063021ap	18,872.34
	Invoice: P200326.00-10738					TO #6 UPGRADES TARTESSO WASTEWATER SCADA			
					18,872.34 40011113 543132	Tartesso WRF SCADA Improvement			
							CHECK	136728 TOTAL:	18,872.34
136729	06/30/2021	PRTD	5425	VORTEX INDUSTRIES	20-1517090	06/23/2021	22100388	063021ap	853.00
	Invoice: 20-1517090					FY 20/21 - CITYWIDE DOOR MAINT			
					853.00 10003172 520525	Hardware Maintenance			
							CHECK	136729 TOTAL:	853.00

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136730	06/30/2021	PRTD	5126	WORKHORSE DIVING & SALVAGE	21-1085	06/25/2021	22101073	063021ap	18,515.00
	Invoice: 21-1085				DIVE, CLEAN, INSPECT 16 POTABLE WATER RESERVOIRS				
				1,704.03 40003212 520577	Reservoir/Booster Maint/Repair				
				4,307.56 40003213 520577	Reservoir/Booster Maint/Repair				
				1,263.24 40003214 520577	Reservoir/Booster Maint/Repair				
				2,526.48 40003215 520577	Reservoir/Booster Maint/Repair				
				3,378.50 40003216 520577	Reservoir/Booster Maint/Repair				
				1,704.03 40003217 520577	Reservoir/Booster Maint/Repair				
				2,779.13 40003218 520577	Reservoir/Booster Maint/Repair				
				852.03 40003219 520577	Reservoir/Booster Maint/Repair				
								CHECK 136730 TOTAL:	18,515.00

NUMBER OF CHECKS 51 *** CASH ACCOUNT TOTAL *** 1,602,947.24

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	51	1,602,947.24

*** GRAND TOTAL *** 1,602,947.24

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021 12 1415									
APP 1000-201000					Accounts Payable			134,572.30	
06/30/2021	063021ap	ap0630			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				1,602,947.24
06/30/2021	063021ap	ap0630			AP CASH DISBURSEMENTS JOURNAL				
APP 3052-201000					Accounts Payable			239.60	
06/30/2021	063021ap	ap0630			AP CASH DISBURSEMENTS JOURNAL				
APP 4000-201000					Accounts Payable			283,738.69	
06/30/2021	063021ap	ap0630			AP CASH DISBURSEMENTS JOURNAL				
APP 4001-201000					Accounts Payable			1,125,051.91	
06/30/2021	063021ap	ap0630			AP CASH DISBURSEMENTS JOURNAL				
APP 3575-201000					Accounts Payable			5,127.19	
06/30/2021	063021ap	ap0630			AP CASH DISBURSEMENTS JOURNAL				
APP 4005-201000					Accounts Payable			9.72	
06/30/2021	063021ap	ap0630			AP CASH DISBURSEMENTS JOURNAL				
APP 3810-201000					Accounts Payable			11,604.13	
06/30/2021	063021ap	ap0630			AP CASH DISBURSEMENTS JOURNAL				
APP 3573-201000					Accounts Payable			4,075.20	
06/30/2021	063021ap	ap0630			AP CASH DISBURSEMENTS JOURNAL				
APP 4003-201000					Accounts Payable			38,168.50	
06/30/2021	063021ap	ap0630			AP CASH DISBURSEMENTS JOURNAL				
APP 4010-201000					Accounts Payable			360.00	
06/30/2021	063021ap	ap0630			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			1,602,947.24	1,602,947.24
APP 9999-201010					DT DF			1,602,947.24	
06/30/2021	063021ap	ap0630							
APP 1000-101010					Pooled Cash Equity				134,572.30
06/30/2021	063021ap	ap0630							
APP 3052-101010					Pooled Cash Equity				239.60
06/30/2021	063021ap	ap0630							
APP 4000-101010					Pooled Cash Equity				283,738.69
06/30/2021	063021ap	ap0630							
APP 4001-101010					Pooled Cash Equity				1,125,051.91
06/30/2021	063021ap	ap0630							
APP 3575-101010					Pooled Cash Equity				5,127.19
06/30/2021	063021ap	ap0630							
APP 4005-101010					Pooled Cash Equity				9.72
06/30/2021	063021ap	ap0630							
APP 3810-101010					Pooled Cash Equity				11,604.13
06/30/2021	063021ap	ap0630							
APP 3573-101010					Pooled Cash Equity				4,075.20
06/30/2021	063021ap	ap0630							
APP 4003-101010					Pooled Cash Equity				38,168.50
06/30/2021	063021ap	ap0630							
APP 4010-101010					Pooled Cash Equity				360.00

JOURNAL ENTRIES TO BE CREATED

YEAR PER JNL SRC ACCOUNT	EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
	06/30/2021	063021ap	ap0630							
						SYSTEM GENERATED ENTRIES TOTAL			1,602,947.24	1,602,947.24
						JOURNAL 2021/12/1415 TOTAL			3,205,894.48	3,205,894.48

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2021 12	1415	06/30/2021			
1000-101010			Pooled Cash Equity			134,572.30
1000-201000			Accounts Payable		134,572.30	
				FUND TOTAL	134,572.30	134,572.30
3052 Impound Fund	2021 12	1415	06/30/2021			
3052-101010			Pooled Cash Equity			239.60
3052-201000			Accounts Payable		239.60	
				FUND TOTAL	239.60	239.60
3573 Police Department Grants	2021 12	1415	06/30/2021			
3573-101010			Pooled Cash Equity			4,075.20
3573-201000			Accounts Payable		4,075.20	
				FUND TOTAL	4,075.20	4,075.20
3575 Area Agency on Aging	2021 12	1415	06/30/2021			
3575-101010			Pooled Cash Equity			5,127.19
3575-201000			Accounts Payable		5,127.19	
				FUND TOTAL	5,127.19	5,127.19
3810 Highway User Revenue Fund	2021 12	1415	06/30/2021			
3810-101010			Pooled Cash Equity			11,604.13
3810-201000			Accounts Payable		11,604.13	
				FUND TOTAL	11,604.13	11,604.13
4000 Water Utility Fund	2021 12	1415	06/30/2021			
4000-101010			Pooled Cash Equity			283,738.69
4000-201000			Accounts Payable		283,738.69	
				FUND TOTAL	283,738.69	283,738.69
4001 Wastewater Fund	2021 12	1415	06/30/2021			
4001-101010			Pooled Cash Equity			1,125,051.91
4001-201000			Accounts Payable		1,125,051.91	
				FUND TOTAL	1,125,051.91	1,125,051.91
4003 Water Repair & Replacement Fee	2021 12	1415	06/30/2021			
4003-101010			Pooled Cash Equity			38,168.50
4003-201000			Accounts Payable		38,168.50	
				FUND TOTAL	38,168.50	38,168.50
4005 Environmental Services	2021 12	1415	06/30/2021			

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
4005-101010			Pooled Cash Equity			9.72
4005-201000			Accounts Payable		9.72	
				FUND TOTAL	9.72	9.72
4010 Airport Fund	2021 12	1415	06/30/2021			
4010-101010			Pooled Cash Equity			360.00
4010-201000			Accounts Payable		360.00	
				FUND TOTAL	360.00	360.00
9999 Pooled Cash	2021 12	1415	06/30/2021			
9999-104000			Cash in Bank - Checking			1,602,947.24
9999-201010			DT DF		1,602,947.24	
				FUND TOTAL	1,602,947.24	1,602,947.24

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
1000	General Fund		134,572.30
3052	Impound Fund		239.60
3573	Police Department Grants		4,075.20
3575	Area Agency on Aging		5,127.19
3810	Highway User Revenue Fund		11,604.13
4000	Water Utility Fund		283,738.69
4001	Wastewater Fund		1,125,051.91
4003	Water Repair & Replacement Fee		38,168.50
4005	Environmental Services		9.72
4010	Airport Fund		360.00
9999	Pooled Cash	1,602,947.24	
	TOTAL	1,602,947.24	1,602,947.24

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136669	06/30/2021	PRTD	999996	IH6 Property Phoenix LP	BLDR1912807	06/01/2021		063021IF	653.10
Invoice: BLDR1912807					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
								CHECK 136669 TOTAL:	653.10
136670	06/30/2021	PRTD	999996	IH6 Property Phoenix LP	BLDR1912798	06/01/2021		063021IF	653.10
Invoice: BLDR1912798					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				IH6 Property Phoenix LP	BLDR1912806	06/01/2021		063021IF	653.10
Invoice: BLDR1912806					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				IH6 Property Phoenix LP	BLDR1912801	06/01/2021		063021IF	653.10
Invoice: BLDR1912801					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				IH6 Property Phoenix LP	BLDR1912898	06/01/2021		063021IF	653.10
Invoice: BLDR1912898					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				IH6 Property Phoenix LP	BLDR1912903	06/01/2021		063021IF	653.10
Invoice: BLDR1912903					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
								CHECK 136670 TOTAL:	3,265.50
136671	06/30/2021	PRTD	999996	Metropolitan Investment Group LLC	BLDR1912986	06/01/2021		063021IF	653.10
Invoice: BLDR1912986					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Metropolitan Investment Group LLC	BLDR1913078	06/01/2021		063021IF	653.10
Invoice: BLDR1913078					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
								CHECK 136671 TOTAL:	1,306.20
136672	06/30/2021	PRTD	999996	Westpark OZ Ventures LLC	BLDR1912956	06/01/2021		063021IF	653.10
Invoice: BLDR1912956					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR1912929	06/01/2021		063021IF	653.10
Invoice: BLDR1912929					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR1912959	06/01/2021		063021IF	653.10
Invoice: BLDR1912959					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
			Westpark OZ Ventures LLC		BLDR1912957	06/01/2021		063021IF	653.10
Invoice: BLDR1912957					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
			Westpark OZ Ventures LLC		BLDR1912918	06/01/2021		063021IF	653.10
Invoice: BLDR1912918					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
			Westpark OZ Ventures LLC		BLDR1912917	06/01/2021		063021IF	653.10
Invoice: BLDR1912917					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
			Westpark OZ Ventures LLC		BLDR1912916	06/01/2021		063021IF	653.10
Invoice: BLDR1912916					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
			Westpark OZ Ventures LLC		BLDR1912910	06/01/2021		063021IF	653.10
Invoice: BLDR1912910					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
			Westpark OZ Ventures LLC		BLDR1912928	06/01/2021		063021IF	653.10
Invoice: BLDR1912928					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
			Westpark OZ Ventures LLC		BLDR1912919	06/01/2021		063021IF	653.10
Invoice: BLDR1912919					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
			Westpark OZ Ventures LLC		BLDR1912913	06/01/2021		063021IF	653.10
Invoice: BLDR1912913					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
			Westpark OZ Ventures LLC		BLDR1912924	06/01/2021		063021IF	653.10
Invoice: BLDR1912924					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
			Westpark OZ Ventures LLC		BLDR1912925	06/01/2021		063021IF	653.10
Invoice: BLDR1912925					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
			Westpark OZ Ventures LLC		BLDR1912926	06/01/2021		063021IF	653.10
Invoice: BLDR1912926					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
			Westpark OZ Ventures LLC		BLDR1912950	06/01/2021		063021IF	653.10
Invoice: BLDR1912950					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
			Westpark OZ Ventures LLC		BLDR1912922	06/01/2021		063021IF	653.10
Invoice: BLDR1912922					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
				Westpark OZ Ventures LLC	BLDR1912955	06/01/2021		063021IF	653.10
Invoice: BLDR1912955					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR1912911	06/01/2021		063021IF	653.10
Invoice: BLDR1912911					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013369	06/01/2021		063021IF	653.10
Invoice: BLDR2013369					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013384	06/01/2021		063021IF	653.10
Invoice: BLDR2013384					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013359	06/01/2021		063021IF	653.10
Invoice: BLDR2013359					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013357	06/01/2021		063021IF	653.10
Invoice: BLDR2013357					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013364	06/01/2021		063021IF	653.10
Invoice: BLDR2013364					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013381	06/01/2021		063021IF	653.10
Invoice: BLDR2013381					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013370	06/01/2021		063021IF	653.10
Invoice: BLDR2013370					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013382	06/01/2021		063021IF	653.10
Invoice: BLDR2013382					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013380	06/01/2021		063021IF	653.10
Invoice: BLDR2013380					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013375	06/01/2021		063021IF	653.10
Invoice: BLDR2013375					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013383	06/01/2021		063021IF	653.10
Invoice: BLDR2013383					CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
				Westpark OZ Ventures LLC	BLDR2013358	06/01/2021		063021IF	653.10
				Invoice: BLDR2013358	CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013372	06/01/2021		063021IF	653.10
				Invoice: BLDR2013372	CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013367	06/01/2021		063021IF	653.10
				Invoice: BLDR2013367	CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013379	06/01/2021		063021IF	653.10
				Invoice: BLDR2013379	CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013362	06/01/2021		063021IF	653.10
				Invoice: BLDR2013362	CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
				Westpark OZ Ventures LLC	BLDR2013361	06/01/2021		063021IF	653.10
				Invoice: BLDR2013361	CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
								CHECK 136672 TOTAL:	22,858.50
136673	06/30/2021	PRTD	999996	Antonio Juan Zamorano	BLDR1911777	06/01/2021		063021IF	653.10
				Invoice: BLDR1911777	CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
								CHECK 136673 TOTAL:	653.10
136674	06/30/2021	PRTD	999996	Carson Family Trust	BLDR1911776	06/01/2021		063021IF	653.10
				Invoice: BLDR1911776	CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				
								CHECK 136674 TOTAL:	653.10
136675	06/30/2021	PRTD	999996	Tedrick & Lakeitha Bolton	BLDR1912197	06/01/2021		063021IF	91.00
				Invoice: BLDR1912197	CE Library Impact Fee Refund				
					91.00 60114151 523052 Impact Fee Reimbursement				
								CHECK 136675 TOTAL:	91.00
136676	06/30/2021	PRTD	999996	Westpark OZ Ventures LLC	BLDR1912927	06/01/2021		063021IF	653.10
				Invoice: BLDR1912927	CE Library Impact Fee Refund				
					653.10 60114151 523052 Impact Fee Reimbursement				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR NAME	INVOICE	INV DATE	PO	CHECK	NET
			INVOICE DTL DESC					
						CHECK	136676 TOTAL:	653.10
136677	06/30/2021	PRTD	999996 Westpark OZ Ventures LLC	BLDR2013354	06/01/2021	063021IF		653.10
Invoice: BLDR2013354				CE Library Impact Fee Refund				
			653.10 60114151 523052	Impact Fee Reimbursement				
						CHECK	136677 TOTAL:	653.10
136678	06/30/2021	PRTD	999996 Westpark OZ Ventures LLC	BLDR2013356	06/01/2021	063021IF		653.10
Invoice: BLDR2013356				CE Library Impact Fee Refund				
			653.10 60114151 523052	Impact Fee Reimbursement				
						CHECK	136678 TOTAL:	653.10
136679	06/30/2021	PRTD	999996 Westpark OZ Ventures LLC	BLDR2013353	06/01/2021	063021IF		653.10
Invoice: BLDR2013353				CE Library Impact Fee Refund				
			653.10 60114151 523052	Impact Fee Reimbursement				
						CHECK	136679 TOTAL:	653.10
				NUMBER OF CHECKS 11		*** CASH ACCOUNT TOTAL ***		32,092.90

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	11	32,092.90

*** GRAND TOTAL *** 32,092.90

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL / SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021 12 1391									
APP 6011-201000					Accounts Payable			32,092.90	
06/30/2021	063021IF	IF0630			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				32,092.90
06/30/2021	063021IF	IF0630			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			32,092.90	32,092.90
APP 9999-201010					DT DF			32,092.90	
06/30/2021	063021IF	IF0630							
APP 6011-101010					Pooled Cash Equity				32,092.90
06/30/2021	063021IF	IF0630							
					SYSTEM GENERATED ENTRIES TOTAL			32,092.90	32,092.90
					JOURNAL 2021/12/1391 TOTAL			64,185.80	64,185.80

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
6011 Impact Fees Library Facilities	2021 12	1391	06/30/2021			
6011-101010			Pooled Cash Equity			32,092.90
6011-201000			Accounts Payable		32,092.90	
				FUND TOTAL	32,092.90	32,092.90
9999 Pooled Cash	2021 12	1391	06/30/2021			
9999-104000			Cash in Bank - Checking			32,092.90
9999-201010			DT DF		32,092.90	
				FUND TOTAL	32,092.90	32,092.90

JOURNAL ENTRIES TO BE CREATED

FUND	DUE TO	DUE FR
6011 Impact Fees Library Facilities		32,092.90
9999 Pooled Cash	32,092.90	
TOTAL	32,092.90	32,092.90

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136151	06/08/2021	PRTD	1201	BAYLESS INVESTMENT & TRADING	2nd half 2020 tax	06/08/2021		060821r	5,583.94
Invoice: 2nd half 2020 tax						Buckeye Land			
					5,583.94 10001110 523050	Prop Taxes, City-Owned			
							CHECK	136151 TOTAL:	5,583.94
136152	06/08/2021	PRTD	6052	CITY OF BUCKEYE	Cycle 3 June 2021	06/08/2021		060821r	3,473.61
Invoice: Cycle 3 June 2021						UB Cycle 3			
					750.54 40003210 526018	Water/Wastewater - Utility			
					2,623.75 10001110 526018	Water/Wastewater - Utility			
					99.32 38103202 526022	Water for Street Sweeper			
				CITY OF BUCKEYE	Cycle 2 May 2021	06/08/2021		060821r	10,875.74
Invoice: Cycle 2 May 2021						UB Cycle 2			
					434.43 40003210 526018	Water/Wastewater - Utility			
					4,182.41 10003176 526018	Water/Wastewater - Utility			
					357.70 10003177 526018	Water/Wastewater - Utility			
					5,727.81 10001110 526018	Water/Wastewater - Utility			
					129.20 38103202 526022	Water for Street Sweeper			
					44.19 40003213 520581	Well Maintenance Repair			
							CHECK	136152 TOTAL:	14,349.35
136153	06/08/2021	PRTD	6434	FLEXIBLE BENEFIT ADMINISTRATORS,	May 2021	06/08/2021		060821r	687.00
Invoice: May 2021						Employee Flex Beneift			
					687.00 10001115 520037	Professional Services General			
							CHECK	136153 TOTAL:	687.00
136154	06/08/2021	PRTD	999997	NOVAK, WILLIAM & D'ANNA	98325	01/20/2021		060821r	117.47
Invoice: 98325						EXP#000072			
					117.47 4000 130000	Accounts Receivable			
							CHECK	136154 TOTAL:	117.47
136155	06/08/2021	PRTD	5974	SENERGY PETROLEUM, LLC	44973 May2021	06/08/2021		060821r	8,891.88
Invoice: 44973 May2021						fuel police/fire #44973			
					1,983.69 10002140 522507	Vehicle Fuel			
					5,694.88 10002121 522507	Vehicle Fuel			
					1,213.31 10003171 522507	Vehicle Fuel			
				SENERGY PETROLEUM, LLC	44971 May2021	06/08/2021		060821r	9,847.67
Invoice: 44971 May2021						fuel misc dept #44971			
					2,536.72 10002140 522507	Vehicle Fuel			
					6,911.16 10002121 522507	Vehicle Fuel			
					307.26 50012140 522507	Vehicle Fuel			
					92.53 10003172 522507	Vehicle Fuel			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
				SENERGY PETROLEUM, LLC	44974 May2021	06/08/2021		060821r	4,854.20
	Invoice: 44974 May2021					fuel #44974			
					1,106.51 10002140 522507	Vehicle Fuel			
					3,014.69 10002121 522507	Vehicle Fuel			
					40.31 10001189 522507	Vehicle Fuel			
					692.69 10003171 522507	Vehicle Fuel			
				SENERGY PETROLEUM, LLC	44972 May 2021	06/08/2021		060821r	52,582.49
	Invoice: 44972 May 2021					fuel #44972			
					299.23 10001189 522507	Vehicle Fuel			
					15,829.19 10002121 522507	Vehicle Fuel			
					1,527.21 10002140 522507	Vehicle Fuel			
					309.91 10003170 522507	Vehicle Fuel			
					1,239.53 10003171 522507	Vehicle Fuel			
					1,016.55 10003172 522507	Vehicle Fuel			
					1,771.07 10005180 522507	Vehicle Fuel			
					2,219.12 10005185 522507	Vehicle Fuel			
					1,143.93 40053205 522507	Vehicle Fuel			
					9,857.43 38103202 522507	Vehicle Fuel			
					10,465.12 40003210 522507	Vehicle Fuel			
					178.97 10004150 522507	Vehicle Fuel			
					139.64 10004151 522507	Vehicle Fuel			
					2,233.99 10004155 522507	Vehicle Fuel			
					1,010.86 35754150 522507	Vehicle Fuel			
					201.47 35794150 522507	Vehicle Fuel			
					2,394.79 40013220 522507	Vehicle Fuel			
					119.42 50063205 522507	Vehicle Fuel			
					156.94 10001112 522507	Vehicle Fuel			
					106.09 10004160 522507	Vehicle Fuel			
					323.87 40103200 522507	Vehicle Fuel			
					38.16 10001115 522507	Vehicle Fuel			
				SENERGY PETROLEUM, LLC	44976 May 2021	06/08/2021		060821r	4,034.78
	Invoice: 44976 May 2021					fuel #44976 FS705			
					2,904.81 10002121 522507	Vehicle Fuel			
					1,129.97 10002140 522507	Vehicle Fuel			
							CHECK	136155 TOTAL:	80,211.02
136156	06/08/2021	PRTD	6394	SOMBRERO, LLC	May2021	06/08/2021		060821r	320.27
	Invoice: May2021					City fuel and car washes			
					63.00 10005180 522507	Vehicle Fuel			
					50.00 10005185 521508	Automotive Expenses			
					47.00 10002121 521508	Automotive Expenses			
					26.00 40013220 521508	Automotive Expenses			
					6.00 10003170 521508	Automotive Expenses			
					49.00 40003210 521508	Automotive Expenses			
					5.00 10001189 521508	Automotive Expenses			
					5.00 38103202 521508	Automotive Expenses			
					59.27 10002121 522507	Vehicle Fuel			
					10.00 10004151 521508	Automotive Expenses			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136156 TOTAL:	320.27
136157	06/08/2021	PRTD	1921	SOUTHWEST GAS	May 2021	06/08/2021		060821r	661.47
	Invoice: May 2021				gas for city bldgs				
					499.08 10001110 526015 Natural Gas - Utility				
					90.92 35754150 523017 Space				
					37.21 10003177 526015 Natural Gas - Utility				
					34.26 10003175 526015 Natural Gas - Utility				
							CHECK	136157 TOTAL:	661.47

NUMBER OF CHECKS 7 *** CASH ACCOUNT TOTAL *** 101,930.52

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	7	101,930.52

*** GRAND TOTAL *** 101,930.52

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021 12 303									
APP 1000-201000					Accounts Payable			74,360.30	
06/08/2021	060821r	r06082			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				101,930.52
06/08/2021	060821r	r06082			AP CASH DISBURSEMENTS JOURNAL				
APP 4000-201000					Accounts Payable			11,860.75	
06/08/2021	060821r	r06082			AP CASH DISBURSEMENTS JOURNAL				
APP 3810-201000					Accounts Payable			10,090.95	
06/08/2021	060821r	r06082			AP CASH DISBURSEMENTS JOURNAL				
APP 5001-201000					Accounts Payable			307.26	
06/08/2021	060821r	r06082			AP CASH DISBURSEMENTS JOURNAL				
APP 4005-201000					Accounts Payable			1,143.93	
06/08/2021	060821r	r06082			AP CASH DISBURSEMENTS JOURNAL				
APP 3575-201000					Accounts Payable			1,101.78	
06/08/2021	060821r	r06082			AP CASH DISBURSEMENTS JOURNAL				
APP 3579-201000					Accounts Payable			201.47	
06/08/2021	060821r	r06082			AP CASH DISBURSEMENTS JOURNAL				
APP 4001-201000					Accounts Payable			2,420.79	
06/08/2021	060821r	r06082			AP CASH DISBURSEMENTS JOURNAL				
APP 5006-201000					Accounts Payable			119.42	
06/08/2021	060821r	r06082			AP CASH DISBURSEMENTS JOURNAL				
APP 4010-201000					Accounts Payable			323.87	
06/08/2021	060821r	r06082			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			101,930.52	101,930.52
APP 9999-201010					DT DF			101,930.52	
06/08/2021	060821r	r06082							
APP 1000-101010					Pooled Cash Equity				74,360.30
06/08/2021	060821r	r06082							
APP 4000-101010					Pooled Cash Equity				11,860.75
06/08/2021	060821r	r06082							
APP 3810-101010					Pooled Cash Equity				10,090.95
06/08/2021	060821r	r06082							
APP 5001-101010					Pooled Cash Equity				307.26
06/08/2021	060821r	r06082							
APP 4005-101010					Pooled Cash Equity				1,143.93
06/08/2021	060821r	r06082							
APP 3575-101010					Pooled Cash Equity				1,101.78
06/08/2021	060821r	r06082							
APP 3579-101010					Pooled Cash Equity				201.47
06/08/2021	060821r	r06082							
APP 4001-101010					Pooled Cash Equity				2,420.79
06/08/2021	060821r	r06082							
APP 5006-101010					Pooled Cash Equity				119.42
06/08/2021	060821r	r06082							
APP 4010-101010					Pooled Cash Equity				323.87

JOURNAL ENTRIES TO BE CREATED

YEAR PER JNL SRC ACCOUNT	EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
	06/08/2021	060821r	r06082							
						SYSTEM GENERATED ENTRIES TOTAL			101,930.52	101,930.52
						JOURNAL 2021/12/303 TOTAL			203,861.04	203,861.04

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2021 12	303	06/08/2021			
1000-101010			Pooled Cash Equity			74,360.30
1000-201000			Accounts Payable		74,360.30	
				FUND TOTAL	74,360.30	74,360.30
3575 Area Agency on Aging	2021 12	303	06/08/2021			
3575-101010			Pooled Cash Equity			1,101.78
3575-201000			Accounts Payable		1,101.78	
				FUND TOTAL	1,101.78	1,101.78
3579 Arizona Lottery Fund	2021 12	303	06/08/2021			
3579-101010			Pooled Cash Equity			201.47
3579-201000			Accounts Payable		201.47	
				FUND TOTAL	201.47	201.47
3810 Highway User Revenue Fund	2021 12	303	06/08/2021			
3810-101010			Pooled Cash Equity			10,090.95
3810-201000			Accounts Payable		10,090.95	
				FUND TOTAL	10,090.95	10,090.95
4000 Water Utility Fund	2021 12	303	06/08/2021			
4000-101010			Pooled Cash Equity			11,860.75
4000-201000			Accounts Payable		11,860.75	
				FUND TOTAL	11,860.75	11,860.75
4001 Wastewater Fund	2021 12	303	06/08/2021			
4001-101010			Pooled Cash Equity			2,420.79
4001-201000			Accounts Payable		2,420.79	
				FUND TOTAL	2,420.79	2,420.79
4005 Environmental Services	2021 12	303	06/08/2021			
4005-101010			Pooled Cash Equity			1,143.93
4005-201000			Accounts Payable		1,143.93	
				FUND TOTAL	1,143.93	1,143.93
4010 Airport Fund	2021 12	303	06/08/2021			
4010-101010			Pooled Cash Equity			323.87
4010-201000			Accounts Payable		323.87	
				FUND TOTAL	323.87	323.87
5001 Cemetery Improvement Fund	2021 12	303	06/08/2021			

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
5001-101010			Pooled Cash Equity			307.26
5001-201000			Accounts Payable		307.26	
				FUND TOTAL	307.26	307.26
5006 Stormwater Quality Fund	2021 12	303	06/08/2021			
5006-101010			Pooled Cash Equity			119.42
5006-201000			Accounts Payable		119.42	
				FUND TOTAL	119.42	119.42
9999 Pooled Cash	2021 12	303	06/08/2021			
9999-104000			Cash in Bank - Checking			101,930.52
9999-201010			DT DF		101,930.52	
				FUND TOTAL	101,930.52	101,930.52

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
1000	General Fund		74,360.30
3575	Area Agency on Aging		1,101.78
3579	Arizona Lottery Fund		201.47
3810	Highway User Revenue Fund		10,090.95
4000	Water Utility Fund		11,860.75
4001	Wastewater Fund		2,420.79
4005	Environmental Services		1,143.93
4010	Airport Fund		323.87
5001	Cemetery Improvement Fund		307.26
5006	Stormwater Quality Fund		119.42
9999	Pooled Cash	101,930.52	
	TOTAL	101,930.52	101,930.52

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136238	06/15/2021	PRTD	1137	ARIZONA WATER COMPANY	June 2021.	06/15/2021		061521r	1,292.04
Invoice: June 2021.						Acct#0442871059-1			
					1,292.04 10001110 526018	Water/Wastewater - Utility			
						CHECK 136238 TOTAL:			1,292.04
136239	06/15/2021	PRTD	1177	ARIZONA PUBLIC SERVICE	060421	06/15/2021		061521r	32,789.48
Invoice: 060421						Accnt#0524039014			
					1,092.19 38103202 521700	Street Lighting Base Charges			
					9,121.70 10003176 526010	Electric - Utility			
					1,250.38 40003210 526010	Electric - Utility			
					12,344.95 10001110 526010	Electric - Utility			
					39.42 40003212 526010	Electric - Utility			
					5,851.85 40003218 526010	Electric - Utility			
					14.69 40003351 526010	Electric - Utility			
					326.72 10003175 526010	Electric - Utility			
					2,683.97 10003177 526010	Electric - Utility			
					63.61 40003213 526010	Electric - Utility			
				ARIZONA PUBLIC SERVICE	06072021	06/15/2021		061521r	236,886.26
Invoice: 06072021						electric for city			
					21,655.56 10001110 526010	Electric - Utility			
					825.91 10002121 526019	RWC Utilities			
					6,533.45 38103202 521700	Street Lighting Base Charges			
					1,588.97 35754150 523017	Space			
					296.17 10003176 526010	Electric - Utility			
					1,034.69 40103200 526010	Electric - Utility			
					1,821.42 40003210 526010	Electric - Utility			
					3,667.93 40003212 526010	Electric - Utility			
					27,560.65 40003213 526010	Electric - Utility			
					16,436.86 40003214 526010	Electric - Utility			
					23,707.38 40003215 526010	Electric - Utility			
					20,347.54 40003216 526010	Electric - Utility			
					2,338.00 40003217 526010	Electric - Utility			
					25,759.12 40003218 526010	Electric - Utility			
					1,040.79 40003301 526010	Electric - Utility			
					20,014.45 40013221 526010	Electric - Utility			
					20,916.15 40013222 526010	Electric - Utility			
					13,476.99 40013223 526010	Electric - Utility			
					11,432.41 40013224 526010	Electric - Utility			
					3,490.71 40013225 526010	Electric - Utility			
					1,514.53 40003219 526010	Electric - Utility			
					331.47 40003351 526010	Electric - Utility			
					9,696.96 10003174 526010	Electric - Utility			
					1,398.15 10003177 526010	Electric - Utility			
						CHECK 136239 TOTAL:			269,675.74

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136240	06/15/2021	PRTD	1298	CHLIC	2831163	06/15/2021		061521r	824,213.67
Invoice: 2831163					city medical and dental ins				
				790,663.97 1030	213000	Health Insurance			
				33,549.70 1030	216000	Dental Insurance			
						CHECK	136240 TOTAL:		824,213.67
136241	06/15/2021	PRTD	6052	CITY OF BUCKEYE	Cycle 1 June 2021	06/15/2021		061521r	2,328.82
Invoice: Cycle 1 June 2021					UB Cycle 1				
				1,963.50 40003210 526018		Water/Wastewater - Utility			
				365.32 10001110 526018		Water/Wastewater - Utility			
						CHECK	136241 TOTAL:		2,328.82
136242	06/15/2021	PRTD	6395	FIDELITY SECURITY LIFE INSURANCE	June2021	06/15/2021		061521r	4,452.96
Invoice: June2021					Vision Ins - Eyemed Opt 1 & 2				
				4,452.96 1030	216600	Vision Insurance			
				FIDELITY SECURITY LIFE INSURANCE	June.2021	06/15/2021		061521r	48.64
Invoice: June.2021					EYEMED Option 1 & 2- COBRA				
				48.64 1030	216600	Vision Insurance			
						CHECK	136242 TOTAL:		4,501.60
136243	06/15/2021	PRTD	1625	LOWE'S COMPANIES, INC	05252021	06/15/2021		061521r	9,761.63
Invoice: 05252021					misc supplies city jobs				
				217.44 10002140 522155		Operational Supplies			
				34.52 10001192 522155		Operational Supplies			
				145.34 10003172 520512		Building Repairs			
				471.36 10003174 520512		Building Repairs			
				38.23 50012140 522155		Operational Supplies			
				37.34 10003172 521520		Small Tools<$5,000			
				91.18 10003172 520600		Swimming Pool R & M			
				1,971.34 10003172 520512		Building Repairs			
				107.86 10004151 521521		IT Equipment <$5000			
				289.07 10003176 520512		Building Repairs			
				247.80 10003177 520512		Building Repairs			
				212.01 38103202 520502		Street Overlay R & M			
				57.07 38103202 520035		Landscaping Service			
				190.06 38103202 520602		Traffic Signal R&M			
				662.00 38103202 520503		Street Lighting O & M			
				34.48 40003210 521508		Automotive Expenses			
				6.43 40003212 520585		Treatment Plant O&M			
				7.24 40003212 520577		Reservoir/Booster Maint/Repair			
				1,135.09 40003213 521520		Small Tools<$5,000			
				13.26 40003213 520577		Reservoir/Booster Maint/Repair			
				243.48 40003218 520585		Treatment Plant O&M			
				59.59 40003216 520585		Treatment Plant O&M			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
					214.56 40003350 521514	Water Distrib System R&M			
					255.41 40003351 520575	Water Meters R & M			
					399.14 40013221 521520	Small Tools<$5,000			
					198.41 40013223 522152	Safety Equipment			
					254.60 40013231 521520	Small Tools<$5,000			
					324.30 40013231 521512	Parts/Materials			
					995.46 40013224 520543	WW R&M			
					179.81 40013224 522152	Safety Equipment			
					371.94 40013226 520541	Wastewater System R & M			
					289.37 40103200 521520	Small Tools<$5,000			
					6.44 40103200 520506	Repair and Replace			
								CHECK 136243 TOTAL:	9,761.63
136244	06/15/2021	PRTD	1520	MW FAMILY HOLDINGS LLC	053121	06/15/2021	061521r		1,816.40
Invoice: 053121					misc supplies for city jobs				
					33.81 10002121 521508	Automotive Expenses			
					21.72 10003171 522155	Operational Supplies			
					22.58 10003172 520512	Building Repairs			
					5.34 10003172 520600	Swimming Pool R & M			
					1.86 38103202 521715	Signs & Markings			
					8.56 10003174 520512	Building Repairs			
					40.82 10003176 520512	Building Repairs			
					11.53 10003177 520512	Building Repairs			
					172.75 10004155 522155	Operational Supplies			
					20.48 38103202 520502	Street Overlay R & M			
					46.12 38103202 521726	Sweeper Parts			
					81.38 38103202 521720	Shop Supplies			
					37.30 38103202 520502	Street Overlay R & M			
					235.05 38103202 521508	Automotive Expenses			
					48.92 40003211 520586	Irrigation Systems Parts/Mater			
					3.61 40003210 521508	Automotive Expenses			
					18.83 40003213 521520	Small Tools<$5,000			
					14.34 40003216 520585	Treatment Plant O&M			
					26.23 40103200 520506	Repair and Replace			
					31.55 40003218 520585	Treatment Plant O&M			
					51.82 40003218 520515	Generator R & M			
					16.85 40003350 520574	Fire Hydrant Maint/Replacement			
					657.64 40003350 521514	Water Distrib System R&M			
					17.76 40003210 521501	Office Supplies			
					13.47 40013221 520540	Wastewater Plant R & M			
					26.66 40013223 520543	WW R&M			
					78.92 40013224 520543	WW R&M			
					70.50 40013231 521512	Parts/Materials			
								CHECK 136244 TOTAL:	1,816.40
136245	06/15/2021	PRTD	5247	REPUBLIC SERVICES	0753-006280112	06/15/2021	061521r		450.23
Invoice: 0753-006280112					Acct# 135525				
					450.23 10003176 526018	Water/Wastewater - Utility			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
				REPUBLIC SERVICES	0753-006276469	06/15/2021		061521r	74.86
	Invoice: 0753-006276469				acct 45716				
					74.86 10001110 520026 Garbage Collections				
				REPUBLIC SERVICES	0753-006276062	06/15/2021		061521r	226.47
	Invoice: 0753-006276062				acct 21554				
					226.47 10001110 520026 Garbage Collections				
				REPUBLIC SERVICES	0753-006280609	06/15/2021		061521r	50.22
	Invoice: 0753-006280609				acct 142099				
					50.22 10001110 520026 Garbage Collections				
				REPUBLIC SERVICES	0753-006276010	06/15/2021		061521r	399.91
	Invoice: 0753-006276010				acct 8870				
					399.91 10001110 520026 Garbage Collections				
				REPUBLIC SERVICES	0753-006276063	06/15/2021		061521r	3,552.04
	Invoice: 0753-006276063				acct 21667				
					3,552.04 10001110 520026 Garbage Collections				
							CHECK	136245 TOTAL:	4,753.73
136246	06/15/2021	PRTD	2044	U.S. BANK	6138702	06/15/2021		061521r	1,000.00
	Invoice: 6138702				Account # 224252000				
					420.00 40003210 523019 Administrative Fees				
					240.00 10006190 523019 Administrative Fees				
					340.00 40013220 523019 Administrative Fees				
							CHECK	136246 TOTAL:	1,000.00

NUMBER OF CHECKS 9 *** CASH ACCOUNT TOTAL *** 1,119,343.63

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	9	1,119,343.63

*** GRAND TOTAL *** 1,119,343.63

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021 12 601									
APP 1000-201000					Accounts Payable			68,931.54	
06/15/2021	061521r	r06152			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				1,119,343.63
06/15/2021	061521r	r06152			AP CASH DISBURSEMENTS JOURNAL				
APP 3810-201000					Accounts Payable			9,168.97	
06/15/2021	061521r	r06152			AP CASH DISBURSEMENTS JOURNAL				
APP 4000-201000					Accounts Payable			136,960.00	
06/15/2021	061521r	r06152			AP CASH DISBURSEMENTS JOURNAL				
APP 3575-201000					Accounts Payable			1,588.97	
06/15/2021	061521r	r06152			AP CASH DISBURSEMENTS JOURNAL				
APP 4010-201000					Accounts Payable			1,356.73	
06/15/2021	061521r	r06152			AP CASH DISBURSEMENTS JOURNAL				
APP 4001-201000					Accounts Payable			72,583.92	
06/15/2021	061521r	r06152			AP CASH DISBURSEMENTS JOURNAL				
APP 1030-201000					Accounts Payable			828,715.27	
06/15/2021	061521r	r06152			AP CASH DISBURSEMENTS JOURNAL				
APP 5001-201000					Accounts Payable			38.23	
06/15/2021	061521r	r06152			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			1,119,343.63	1,119,343.63
APP 9999-201010					DT DF			1,119,343.63	
06/15/2021	061521r	r06152							
APP 1000-101010					Pooled Cash Equity				68,931.54
06/15/2021	061521r	r06152							
APP 3810-101010					Pooled Cash Equity				9,168.97
06/15/2021	061521r	r06152							
APP 4000-101010					Pooled Cash Equity				136,960.00
06/15/2021	061521r	r06152							
APP 3575-101010					Pooled Cash Equity				1,588.97
06/15/2021	061521r	r06152							
APP 4010-101010					Pooled Cash Equity				1,356.73
06/15/2021	061521r	r06152							
APP 4001-101010					Pooled Cash Equity				72,583.92
06/15/2021	061521r	r06152							
APP 1030-101010					Pooled Cash Equity				828,715.27
06/15/2021	061521r	r06152							
APP 5001-101010					Pooled Cash Equity				38.23
06/15/2021	061521r	r06152							
					SYSTEM GENERATED ENTRIES TOTAL			1,119,343.63	1,119,343.63
					JOURNAL 2021/12/601 TOTAL			2,238,687.26	2,238,687.26

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2021 12	601	06/15/2021			
1000-101010			Pooled Cash Equity			68,931.54
1000-201000			Accounts Payable		68,931.54	
				FUND TOTAL	68,931.54	68,931.54
1030 Payroll Fund	2021 12	601	06/15/2021			
1030-101010			Pooled Cash Equity			828,715.27
1030-201000			Accounts Payable		828,715.27	
				FUND TOTAL	828,715.27	828,715.27
3575 Area Agency on Aging	2021 12	601	06/15/2021			
3575-101010			Pooled Cash Equity			1,588.97
3575-201000			Accounts Payable		1,588.97	
				FUND TOTAL	1,588.97	1,588.97
3810 Highway User Revenue Fund	2021 12	601	06/15/2021			
3810-101010			Pooled Cash Equity			9,168.97
3810-201000			Accounts Payable		9,168.97	
				FUND TOTAL	9,168.97	9,168.97
4000 Water Utility Fund	2021 12	601	06/15/2021			
4000-101010			Pooled Cash Equity			136,960.00
4000-201000			Accounts Payable		136,960.00	
				FUND TOTAL	136,960.00	136,960.00
4001 Wastewater Fund	2021 12	601	06/15/2021			
4001-101010			Pooled Cash Equity			72,583.92
4001-201000			Accounts Payable		72,583.92	
				FUND TOTAL	72,583.92	72,583.92
4010 Airport Fund	2021 12	601	06/15/2021			
4010-101010			Pooled Cash Equity			1,356.73
4010-201000			Accounts Payable		1,356.73	
				FUND TOTAL	1,356.73	1,356.73
5001 Cemetery Improvement Fund	2021 12	601	06/15/2021			
5001-101010			Pooled Cash Equity			38.23
5001-201000			Accounts Payable		38.23	
				FUND TOTAL	38.23	38.23
9999 Pooled Cash	2021 12	601	06/15/2021			

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE	ACCOUNT DESCRIPTION	DEBIT	CREDIT
9999-104000				Cash in Bank - Checking		1,119,343.63
9999-201010				DT DF	1,119,343.63	
				FUND TOTAL	1,119,343.63	1,119,343.63

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
1000	General Fund		68,931.54
1030	Payroll Fund		828,715.27
3575	Area Agency on Aging		1,588.97
3810	Highway User Revenue Fund		9,168.97
4000	Water Utility Fund		136,960.00
4001	Wastewater Fund		72,583.92
4010	Airport Fund		1,356.73
5001	Cemetery Improvement Fund		38.23
9999	Pooled Cash	1,119,343.63	
	TOTAL	1,119,343.63	1,119,343.63

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136398	06/22/2021	PRTD	6620	AT&T MOBILITY	17995549	06/22/2021		062221r	522.84
Invoice: 17995549						Foundation acct#BES57755295			
					402.12 10002121 526025	Telephone			
					40.24 40003210 526025	Telephone			
					80.48 10002140 526025	Telephone			
						CHECK 136398 TOTAL:			522.84
136399	06/22/2021	PRTD	1177	ARIZONA PUBLIC SERVICE	June 2021	06/22/2021		062221r	38,475.01
Invoice: June 2021						acct 9189451000			
					38,475.01 38103202 521700	Street Lighting Base Charges			
				ARIZONA PUBLIC SERVICE	June -2021	06/22/2021		062221r	25,845.44
Invoice: June -2021						slids electric			
					2,340.07 31503170 527012	SLID 1 Operations			
					2,031.80 31503170 527010	2006-SLID-001 Operations			
					2,014.74 31503170 527024	2006-SLID-003 Operations			
					1,959.53 31503170 527011	2006-SLID-007 Operations			
					615.38 31503170 527013	2006-SLID-008 Operations			
					2,844.63 31503170 527014	2006-SLID-011 Operations			
					1,053.04 31503170 527015	2006-SLID-015 Operations			
					1,195.65 31503170 527016	2006-SLID-016 Operations			
					787.42 31503170 527017	2006-SLID-017 Operations			
					2,142.68 31503170 527018	2006-SLID-019 Operations			
					621.72 31503170 527023	2006-SLID-009 Operations			
					302.19 31503170 527020	2007-SLID-001 Operations			
					190.33 31503170 527021	2007-SLID-002 Operations			
					299.85 31503170 527022	2007-SLID-003 Operations			
					666.12 31503170 527025	2007-SLID-010 Operations			
					484.42 31503170 527026	2007-SLID-013 Operations			
					348.57 31503170 527027	2007-SLID-021 Operations			
					295.20 31503170 527032	2009-SLID-02A Operations			
					114.08 31503170 527029	2011-SLID-001 Operations			
					1,088.23 31503170 527031	2013-SLID-002 Operations			
					2,026.11 31503170 527030	2012-SLID-002 Operations			
					505.44 38103202 521700	Street Lighting Base Charges			
					668.70 31503170 527033	2015-SLID-001 Operations			
					563.14 31503170 527034	2017-SLID-003 Operations			
					686.40 31503170 527036	2018-SLID-001 Operations			
						CHECK 136399 TOTAL:			64,320.45
136400	06/22/2021	PRTD	6048	CENTURYLINK COMMUNICATIONS, LLC	June2021.	06/22/2021		062221r	303.79
Invoice: June2021.						J6231114144684m			
					303.79 40013220 526025	Telephone			
				CENTURYLINK COMMUNICATIONS, LLC	June 2021	06/22/2021		062221r	560.98
Invoice: June 2021						J623114146812m			
					560.98 40003210 526025	Telephone			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
				CENTURYLINK COMMUNICATIONS, LLC	Jun2021	06/22/2021		062221r	4,020.80
	Invoice: Jun2021				J6231114145788m				
				4,020.80 10001189 520032	Telecom Services				
						CHECK	136400 TOTAL:		4,885.57
136401	06/22/2021	PRTD	6048	CENTURYLINK COMMUNICATIONS, LLC	230393463	06/22/2021		062221r	17.54
	Invoice: 230393463				acct# 77579877				
				17.54 10001189 520032	Telecom Services				
						CHECK	136401 TOTAL:		17.54
136402	06/22/2021	PRTD	6052	CITY OF BUCKEYE	Cycle 2 June 2021	06/22/2021		062221r	13,411.36
	Invoice: Cycle 2 June 2021				UB Cycle 2				
				434.43 40003210 526018	Water/Wastewater - Utility				
				4,615.44 10003176 526018	Water/Wastewater - Utility				
				361.83 10003177 526018	Water/Wastewater - Utility				
				7,905.81 10001110 526018	Water/Wastewater - Utility				
				85.01 38103202 526022	Water for Street Sweeper				
				8.84 40003213 520581	Well Maintenance Repair				
						CHECK	136402 TOTAL:		13,411.36
136403	06/22/2021	PRTD	5096	CITY OF GOODYEAR	438196	06/22/2021		062221r	12,217.22
	Invoice: 438196				Account 5931-112547				
				12,217.22 40003210 526024	Purchased Water				
						CHECK	136403 TOTAL:		12,217.22
136404	06/22/2021	PRTD	1332	COVERT TRACK GROUP INC	24156	05/13/2021	22101137	062221r	777.96
	Invoice: 24156				Covert Track Software Maintenance				
				777.96 10002121 520030	Software Maintenance				
						CHECK	136404 TOTAL:		777.96
136405	06/22/2021	PRTD	1333	COX BUSINESS	June. 2021	06/22/2021		062221r	24,275.26
	Invoice: June. 2021				Accnt# 0018501152148801				
				22,017.05 10001189 520032	Telecom Services				
				1,333.90 40003210 526025	Telephone				
				924.31 10002121 526019	RWC Utilities				
						CHECK	136405 TOTAL:		24,275.26
136406	06/22/2021	PRTD	1625	LOWE'S COMPANIES, INC	901463	04/28/2021		062221r	131.01
	Invoice: 901463				supplies for Access Control Water Prod Well				
				131.01 40001113 543139	Access Control Wtr Prod Well				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
				LOWE'S COMPANIES, INC	901713	05/05/2021		062221r	332.04
	Invoice: 901713					Supplies for Access Control Water Prod Well			
					332.04 40001113 543139	Access Control Wtr Prod Well			
				LOWE'S COMPANIES, INC	901614	05/13/2021		062221r	51.87
	Invoice: 901614					Supplies for Access Control Water Prod Well			
					51.87 40001113 543139	Access Control Wtr Prod Well			
				LOWE'S COMPANIES, INC	901475	05/13/2021		062221r	365.68
	Invoice: 901475					Supplies for Access Control Water Prod Well			
					365.68 40001113 543139	Access Control Wtr Prod Well			
				LOWE'S COMPANIES, INC	901988	05/06/2021		062221r	122.33
	Invoice: 901988					Supplies for CIP2020023			
					122.33 50211000 543082	Charman Bldg Space Plan			
						CHECK	136406 TOTAL:		1,002.93
136407	06/22/2021	PRTD	5247	REPUBLIC SERVICES #753	753-006297731	06/22/2021		062221r	625,066.92
	Invoice: 753-006297731					solid waste city 307531031591			
					625,066.92 40053205 520031	SW Collections Contract			
						CHECK	136407 TOTAL:		625,066.92
136408	06/22/2021	PRTD	2126	ZIONS FIRST NATIONAL BANK	Accnt# 1141830	06/22/2021		062221r	350.00
	Invoice: Accnt# 1141830					Buckeye Water & Sewer 2015			
					350.00 40003210 523019	Administrative Fees			
						CHECK	136408 TOTAL:		350.00
					NUMBER OF CHECKS 11	*** CASH ACCOUNT TOTAL ***			746,848.05

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	11	746,848.05

*** GRAND TOTAL *** 746,848.05

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021 12 955									
APP 1000-201000					Accounts Payable			41,123.34	
06/22/2021 062221r	r06222				AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				746,848.05
06/22/2021 062221r	r06222				AP CASH DISBURSEMENTS JOURNAL				
APP 4000-201000					Accounts Payable			15,826.21	
06/22/2021 062221r	r06222				AP CASH DISBURSEMENTS JOURNAL				
APP 3810-201000					Accounts Payable			39,065.46	
06/22/2021 062221r	r06222				AP CASH DISBURSEMENTS JOURNAL				
APP 3150-201000					Accounts Payable			25,340.00	
06/22/2021 062221r	r06222				AP CASH DISBURSEMENTS JOURNAL				
APP 4001-201000					Accounts Payable			303.79	
06/22/2021 062221r	r06222				AP CASH DISBURSEMENTS JOURNAL				
APP 5021-201000					Accounts Payable			122.33	
06/22/2021 062221r	r06222				AP CASH DISBURSEMENTS JOURNAL				
APP 4005-201000					Accounts Payable			625,066.92	
06/22/2021 062221r	r06222				AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			746,848.05	746,848.05
APP 9999-201010					DT DF			746,848.05	
06/22/2021 062221r	r06222								
APP 1000-101010					Pooled Cash Equity				41,123.34
06/22/2021 062221r	r06222								
APP 4000-101010					Pooled Cash Equity				15,826.21
06/22/2021 062221r	r06222								
APP 3810-101010					Pooled Cash Equity				39,065.46
06/22/2021 062221r	r06222								
APP 3150-101010					Pooled Cash Equity				25,340.00
06/22/2021 062221r	r06222								
APP 4001-101010					Pooled Cash Equity				303.79
06/22/2021 062221r	r06222								
APP 5021-101010					Pooled Cash Equity				122.33
06/22/2021 062221r	r06222								
APP 4005-101010					Pooled Cash Equity				625,066.92
06/22/2021 062221r	r06222								
					SYSTEM GENERATED ENTRIES TOTAL			746,848.05	746,848.05
					JOURNAL 2021/12/955 TOTAL			1,493,696.10	1,493,696.10

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2021 12	955	06/22/2021			
1000-101010			Pooled Cash Equity			41,123.34
1000-201000			Accounts Payable		41,123.34	
				FUND TOTAL	41,123.34	41,123.34
3150 SLID Operations	2021 12	955	06/22/2021			
3150-101010			Pooled Cash Equity			25,340.00
3150-201000			Accounts Payable		25,340.00	
				FUND TOTAL	25,340.00	25,340.00
3810 Highway User Revenue Fund	2021 12	955	06/22/2021			
3810-101010			Pooled Cash Equity			39,065.46
3810-201000			Accounts Payable		39,065.46	
				FUND TOTAL	39,065.46	39,065.46
4000 Water Utility Fund	2021 12	955	06/22/2021			
4000-101010			Pooled Cash Equity			15,826.21
4000-201000			Accounts Payable		15,826.21	
				FUND TOTAL	15,826.21	15,826.21
4001 Wastewater Fund	2021 12	955	06/22/2021			
4001-101010			Pooled Cash Equity			303.79
4001-201000			Accounts Payable		303.79	
				FUND TOTAL	303.79	303.79
4005 Environmental Services	2021 12	955	06/22/2021			
4005-101010			Pooled Cash Equity			625,066.92
4005-201000			Accounts Payable		625,066.92	
				FUND TOTAL	625,066.92	625,066.92
5021 CIP General	2021 12	955	06/22/2021			
5021-101010			Pooled Cash Equity			122.33
5021-201000			Accounts Payable		122.33	
				FUND TOTAL	122.33	122.33
9999 Pooled Cash	2021 12	955	06/22/2021			
9999-104000			Cash in Bank - Checking			746,848.05
9999-201010			DT DF		746,848.05	
				FUND TOTAL	746,848.05	746,848.05

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
1000	General Fund		41,123.34
3150	SLID Operations		25,340.00
3810	Highway User Revenue Fund		39,065.46
4000	Water Utility Fund		15,826.21
4001	Wastewater Fund		303.79
4005	Environmental Services		625,066.92
5021	CIP General		122.33
9999	Pooled Cash	746,848.05	
	TOTAL	746,848.05	746,848.05

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136658	06/30/2021	PRTD	1251	BUCKEYE WATER CONSERVATION & DRAI	Dec2020-May2021	06/30/2021		063021r	47,085.75
Invoice: Dec2020-May2021						pump power at wells			
					47,085.75 40003302 526010	Electric - Utility			
							CHECK	136658 TOTAL:	47,085.75
136659	06/30/2021	PRTD	6052	CITY OF BUCKEYE	Cycle 3 July 2021	06/30/2021		063021r	3,453.74
Invoice: Cycle 3 July 2021						UB Cycle 3			
					748.93 40003210 526018	Water/Wastewater - Utility			
					2,667.36 10001110 526018	Water/Wastewater - Utility			
					37.45 38103202 526022	Water for Street Sweeper			
							CHECK	136659 TOTAL:	3,453.74
136660	06/30/2021	PRTD	1409	EPCOR WATER	062421	06/30/2021		063021r	875.94
Invoice: 062421						0418934 and 0418932			
					446.71 10001110 526018	Water/Wastewater - Utility			
					429.23 10001110 526018	Water/Wastewater - Utility			
							CHECK	136660 TOTAL:	875.94
136661	06/30/2021	PRTD	1489	GUST ROSENFELD P.L.C.	375314	06/30/2021		063021r	88,557.58
Invoice: 375314						File : 006718-20017City Attny			
					87,746.67 10001110 520001	Legal Services			
					810.91 40003210 520001	Legal Services			
				GUST ROSENFELD P.L.C.	375312	06/30/2021		063021r	190.83
Invoice: 375312						Sonoran Ridge Water System			
					190.83 40003210 520001	Legal Services			
				GUST ROSENFELD P.L.C.	375299	06/30/2021		063021r	379.12
Invoice: 375299						gen litigation matters #313			
					379.12 10001110 520001	Legal Services			
				GUST ROSENFELD P.L.C.	375307	06/30/2021		063021r	198.90
Invoice: 375307						2019-MID-006 Desert Moon			
					198.90 31503170 520028	Set-Up Fees for MID/SLID			
				GUST ROSENFELD P.L.C.	375300	06/30/2021		063021r	10,669.26
Invoice: 375300						Public Records Requests			
					10,669.26 10001110 520001	Legal Services			
				GUST ROSENFELD P.L.C.	375308	06/30/2021		063021r	572.05
Invoice: 375308						2007-SLID-010 Exp Desrt Moon			
					572.05 31503170 520028	Set-Up Fees for MID/SLID			
				GUST ROSENFELD P.L.C.	375302	06/30/2021		063021r	3,104.22
Invoice: 375302						Water Resources #383			
					3,104.22 40003210 520001	Legal Services			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
				GUST ROSENFELD P.L.C.	375303	06/30/2021		063021r	1,093.96
	Invoice: 375303				adv. Stein, Jon.CV2019-006142				
				1,093.96 10001110 520001	Legal Services				
								CHECK 136661 TOTAL:	104,765.92
136662	06/30/2021	PRTD	5498	PFM ASSET MANAGEMENT LLC	SMA-M0521-24291	06/30/2021		063021r	6,442.32
	Invoice: SMA-M0521-24291				investment advisory services				
				6,442.32 10001110 523032	Investment Fees				
								CHECK 136662 TOTAL:	6,442.32
136663	06/30/2021	PRTD	5247	REPUBLIC SERVICES	0753-006297917	06/30/2021		063021r	4,132.22
	Invoice: 0753-006297917				acct 21667				
				4,132.22 10001110 520026	Garbage Collections				
								CHECK 136663 TOTAL:	4,132.22
136664	06/30/2021	PRTD	5194	RICOH USA, INC.	9028928372R	06/30/2021		063021r	2,625.11
	Invoice: 9028928372R				copy center for departments				
				10.56 10001102 523056	Copying/Printing/Binding				
				40.50 10001112 523056	Copying/Printing/Binding				
				251.43 10001115 523056	Copying/Printing/Binding				
				57.33 10002140 523056	Copying/Printing/Binding				
				47.79 10002121 523056	Copying/Printing/Binding				
				164.66 10002120 523056	Copying/Printing/Binding				
				208.40 10004155 523056	Copying/Printing/Binding				
				12.42 10004156 523056	Copying/Printing/Binding				
				1,287.10 10004151 523056	Copying/Printing/Binding				
				5.11 30584160 521502	Program Supplies/Equipment				
				111.25 10004154 523056	Copying/Printing/Binding				
				69.05 10004150 523056	Copying/Printing/Binding				
				81.00 10004160 523056	Copying/Printing/Binding				
				82.88 40003210 523056	Copying/Printing/Binding				
				14.70 40003230 523056	Copying/Printing/Binding				
				20.56 40013230 523056	Copying/Printing/Binding				
				14.72 40053230 523056	Copying/Printing/Binding				
				54.65 35754150 523056	Copying/Printing/Binding				
				40.50 10005185 523056	Copying/Printing/Binding				
				50.50 10001189 523056	Copying/Printing/Binding				
								CHECK 136664 TOTAL:	2,625.11
136665	06/30/2021	PRTD	1867	SAM'S CLUB	membership 21/22	06/30/2021		063021r	544.00
	Invoice: membership 21/22				memberships				
				58.67 10001110 526120	Dues and Memberships				
				48.67 35754150 521502	Program Supplies/Equipment				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
					43.67 10003171 522155 Operational Supplies				
					43.67 10001189 526120 Dues and Memberships				
					43.67 10004155 526120 Dues and Memberships				
					87.30 10002121 526120 Dues and Memberships				
					218.35 10004160 526120 Dues and Memberships				
								CHECK 136665 TOTAL:	544.00
136666	06/30/2021	PRTD	1921	SOUTHWEST GAS	June2021	06/30/2021		063021r	606.85
Invoice: June2021					gas for city bldgs				
					455.25 10001110 526015 Natural Gas - Utility				
					83.03 35754150 523017 Space				
					35.76 10003177 526015 Natural Gas - Utility				
					32.81 10003175 526015 Natural Gas - Utility				
								CHECK 136666 TOTAL:	606.85
136667	06/30/2021	PRTD	2058	VERIZON WIRELESS SERVICES, LLC	9881830736	06/30/2021		063021r	16,578.94
Invoice: 9881830736					cell phones #66997922700006				
					374.50 10001100 526025 Telephone				
					202.50 10001101 526025 Telephone				
					63.50 10001110 526025 Telephone				
					121.50 10001115 526025 Telephone				
					5,632.50 10002121 526025 Telephone				
					628.00 10002140 526025 Telephone				
					81.00 50012140 526025 Telephone				
					230.50 10004151 526025 Telephone				
					374.50 10004155 526025 Telephone				
					81.00 10004150 526025 Telephone				
					121.50 35794150 521519 LTAF II				
					283.50 10004160 526025 Telephone				
					405.00 10004153 526025 Telephone				
					202.50 10003171 526025 Telephone				
					40.50 40103200 526025 Telephone				
					81.00 10003170 526025 Telephone				
					258.00 40053205 526025 Telephone				
					871.00 38103202 526025 Telephone				
					2,751.50 40003210 526025 Telephone				
					364.50 10003172 526025 Telephone				
					40.50 50063205 526025 Telephone				
					743.50 40013220 526025 Telephone				
					207.50 10001112 526025 Telephone				
					445.50 10005185 526025 Telephone				
					891.00 10005180 526025 Telephone				
					162.00 10001102 526025 Telephone				
					717.94 10001189 526025 Telephone				
					40.50 10002120 526025 Telephone				
					162.00 10001188 526025 Telephone				
				VERIZON WIRELESS SERVICES, LLC	9881830735	06/30/2021		063021r	10,213.22

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
Invoice: 9881830735					66997922700003 aircds				
					3,565.00 10002121 526025 Telephone				
					100.83 35732121 523104 PD TLO Sustainment				
					31.00 35772140 523013 Nuc Emerg. Mgmt Expenditure				
					588.68 10002140 526025 Telephone				
					682.00 10005180 526025 Telephone				
					403.00 10005185 526025 Telephone				
					93.00 40013220 526025 Telephone				
					899.00 40003210 526025 Telephone				
					31.00 38103202 526025 Telephone				
					62.00 40053205 526025 Telephone				
					3,078.62 10001189 526025 Telephone				
					62.00 10004151 526025 Telephone				
					31.00 10001101 526025 Telephone				
					248.00 10001100 526025 Telephone				
					31.00 10001102 526025 Telephone				
					31.00 10001188 526025 Telephone				
					152.09 10001189 520032 Telecom Services				
					124.00 10001187 526025 Telephone				
			VERIZON WIRELESS SERVICES, LLC		98818157241	06/30/2021		063021r	156.00
Invoice: 98818157241					54204915900001 aircds				
					156.00 10002140 526025 Telephone				
							CHECK	136667 TOTAL:	26,948.16
136668	06/30/2021	PRTD	2058	VERIZON WIRELESS SERVICES, LLC	22869202 - APR2021	06/30/2021		063021r	266.00
Invoice: 22869202 - APR2021					GPS				
					95.00 10005185 526025 Telephone				
					171.00 10005180 526025 Telephone				
							CHECK	136668 TOTAL:	266.00
					NUMBER OF CHECKS 11		*** CASH ACCOUNT TOTAL ***		197,746.01

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	11	197,746.01

*** GRAND TOTAL *** 197,746.01

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL / SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021 12 1390									
APP 4000-201000					Accounts Payable			55,688.72	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				197,746.01
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 1000-201000					Accounts Payable			138,548.32	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 3810-201000					Accounts Payable			939.45	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 3150-201000					Accounts Payable			770.95	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 3058-201000					Accounts Payable			5.11	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 4001-201000					Accounts Payable			857.06	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 4005-201000					Accounts Payable			334.72	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 3575-201000					Accounts Payable			186.35	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 5001-201000					Accounts Payable			81.00	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 3579-201000					Accounts Payable			121.50	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 4010-201000					Accounts Payable			40.50	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 5006-201000					Accounts Payable			40.50	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 3573-201000					Accounts Payable			100.83	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
APP 3577-201000					Accounts Payable			31.00	
06/30/2021	063021r	r06302			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			197,746.01	197,746.01
APP 9999-201010					DT DF			197,746.01	
06/30/2021	063021r	r06302							
APP 4000-101010					Pooled Cash Equity				55,688.72
06/30/2021	063021r	r06302							
APP 1000-101010					Pooled Cash Equity				138,548.32
06/30/2021	063021r	r06302							
APP 3810-101010					Pooled Cash Equity				939.45
06/30/2021	063021r	r06302							
APP 3150-101010					Pooled Cash Equity				770.95
06/30/2021	063021r	r06302							
APP 3058-101010					Pooled Cash Equity				5.11
06/30/2021	063021r	r06302							
APP 4001-101010					Pooled Cash Equity				857.06

JOURNAL ENTRIES TO BE CREATED

YEAR PER JNL SRC ACCOUNT	EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
	06/30/2021	063021r	r06302							
APP 4005-101010	06/30/2021	063021r	r06302			Pooled Cash Equity				334.72
APP 3575-101010	06/30/2021	063021r	r06302			Pooled Cash Equity				186.35
APP 5001-101010	06/30/2021	063021r	r06302			Pooled Cash Equity				81.00
APP 3579-101010	06/30/2021	063021r	r06302			Pooled Cash Equity				121.50
APP 4010-101010	06/30/2021	063021r	r06302			Pooled Cash Equity				40.50
APP 5006-101010	06/30/2021	063021r	r06302			Pooled Cash Equity				40.50
APP 3573-101010	06/30/2021	063021r	r06302			Pooled Cash Equity				100.83
APP 3577-101010	06/30/2021	063021r	r06302			Pooled Cash Equity				31.00
						SYSTEM GENERATED ENTRIES TOTAL			197,746.01	197,746.01
						JOURNAL 2021/12/1390 TOTAL			395,492.02	395,492.02

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE	ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2021 12	1390	06/30/2021				
1000-101010				Pooled Cash Equity			138,548.32
1000-201000				Accounts Payable		138,548.32	
					FUND TOTAL	138,548.32	138,548.32
3058 Comm Services Programs	2021 12	1390	06/30/2021				
3058-101010				Pooled Cash Equity			5.11
3058-201000				Accounts Payable		5.11	
					FUND TOTAL	5.11	5.11
3150 SLID Operations	2021 12	1390	06/30/2021				
3150-101010				Pooled Cash Equity			770.95
3150-201000				Accounts Payable		770.95	
					FUND TOTAL	770.95	770.95
3573 Police Department Grants	2021 12	1390	06/30/2021				
3573-101010				Pooled Cash Equity			100.83
3573-201000				Accounts Payable		100.83	
					FUND TOTAL	100.83	100.83
3575 Area Agency on Aging	2021 12	1390	06/30/2021				
3575-101010				Pooled Cash Equity			186.35
3575-201000				Accounts Payable		186.35	
					FUND TOTAL	186.35	186.35
3577 Nuclear Emergency Management	2021 12	1390	06/30/2021				
3577-101010				Pooled Cash Equity			31.00
3577-201000				Accounts Payable		31.00	
					FUND TOTAL	31.00	31.00
3579 Arizona Lottery Fund	2021 12	1390	06/30/2021				
3579-101010				Pooled Cash Equity			121.50
3579-201000				Accounts Payable		121.50	
					FUND TOTAL	121.50	121.50
3810 Highway User Revenue Fund	2021 12	1390	06/30/2021				
3810-101010				Pooled Cash Equity			939.45
3810-201000				Accounts Payable		939.45	
					FUND TOTAL	939.45	939.45
4000 Water Utility Fund	2021 12	1390	06/30/2021				

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE	ACCOUNT DESCRIPTION		DEBIT	CREDIT
4000-101010				Pooled Cash Equity			55,688.72
4000-201000				Accounts Payable		55,688.72	
					FUND TOTAL	55,688.72	55,688.72
4001 Wastewater Fund	2021 12	1390	06/30/2021				
4001-101010				Pooled Cash Equity			857.06
4001-201000				Accounts Payable		857.06	
					FUND TOTAL	857.06	857.06
4005 Environmental Services	2021 12	1390	06/30/2021				
4005-101010				Pooled Cash Equity			334.72
4005-201000				Accounts Payable		334.72	
					FUND TOTAL	334.72	334.72
4010 Airport Fund	2021 12	1390	06/30/2021				
4010-101010				Pooled Cash Equity			40.50
4010-201000				Accounts Payable		40.50	
					FUND TOTAL	40.50	40.50
5001 Cemetery Improvement Fund	2021 12	1390	06/30/2021				
5001-101010				Pooled Cash Equity			81.00
5001-201000				Accounts Payable		81.00	
					FUND TOTAL	81.00	81.00
5006 Stormwater Quality Fund	2021 12	1390	06/30/2021				
5006-101010				Pooled Cash Equity			40.50
5006-201000				Accounts Payable		40.50	
					FUND TOTAL	40.50	40.50
9999 Pooled Cash	2021 12	1390	06/30/2021				
9999-104000				Cash in Bank - Checking			197,746.01
9999-201010				DT DF		197,746.01	
					FUND TOTAL	197,746.01	197,746.01

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
1000	General Fund		138,548.32
3058	Comm Services Programs		5.11
3150	SLID Operations		770.95
3573	Police Department Grants		100.83
3575	Area Agency on Aging		186.35
3577	Nuclear Emergency Management		31.00
3579	Arizona Lottery Fund		121.50
3810	Highway User Revenue Fund		939.45
4000	Water Utility Fund		55,688.72
4001	Wastewater Fund		857.06
4005	Environmental Services		334.72
4010	Airport Fund		40.50
5001	Cemetery Improvement Fund		81.00
5006	Stormwater Quality Fund		40.50
9999	Pooled Cash	197,746.01	
	TOTAL	197,746.01	197,746.01

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136370	06/17/2021	PRTD	5487	IPROMOTEU	1838017PWP	06/01/2021		061721ub	384.55
Invoice: 1838017PWP						Special order - Embossed COB padded cert. holders			
					384.55 10001102 521501	Office Supplies			
								CHECK 136370 TOTAL:	384.55
136371	06/17/2021	PRTD	999997	ACI PAYMENTS, INC	1251644	06/14/2021		061721ub	148.35
Invoice: 1251644						Payment received in error			
					148.35 4000 130000	Accounts Receivable			
								CHECK 136371 TOTAL:	148.35
136372	06/17/2021	PRTD	999997	ANDERSON, MICHAEL	105035	06/03/2021		061721ub	30.38
Invoice: 105035						UB 982480 87 3RD AVE W			
					30.38 4000 130000	Accounts Receivable			
								CHECK 136372 TOTAL:	30.38
136373	06/17/2021	PRTD	999997	AVARD, ETHAN	105028	06/03/2021		061721ub	5.51
Invoice: 105028						UB 6003784 54 197TH			
					5.51 4000 130010	A/R UB Other			
								CHECK 136373 TOTAL:	5.51
136374	06/17/2021	PRTD	999997	BENT, ALLEN & NANCI	105025	06/03/2021		061721ub	105.92
Invoice: 105025						UB 210266 26346 POTTER DR			
					105.92 4000 130000	Accounts Receivable			
								CHECK 136374 TOTAL:	105.92
136375	06/17/2021	PRTD	999997	BORDEN, TY	105051	06/03/2021		061721ub	460.02
Invoice: 105051						UB 200063 3749 292ND DR			
					460.02 4000 130000	Accounts Receivable			
								CHECK 136375 TOTAL:	460.02
136376	06/17/2021	PRTD	999997	BRAGA, KRISTY	105046	06/03/2021		061721ub	30.32
Invoice: 105046						UB 171668 21260 ALMERIA RD			
					30.32 4005 130000	Accounts Receivable			
								CHECK 136376 TOTAL:	30.32
136377	06/17/2021	PRTD	999997	CHHUY, LAI	105024	06/03/2021		061721ub	116.65
Invoice: 105024						UB 250115 26004 ESCUDA DR			
					116.65 4000 130000	Accounts Receivable			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
							CHECK	136377 TOTAL:	116.65
136378	06/17/2021	PRTD	999997	CIESZKO, LORI	105027	06/03/2021	061721ub		74.64
	Invoice: 105027					UB 982039 25526 RED SKY PL			
				74.64 4000	130000	Accounts Receivable			
							CHECK	136378 TOTAL:	74.64
136379	06/17/2021	PRTD	999997	COORAD, ANDREA	105050	06/03/2021	061721ub		30.00
	Invoice: 105050					UB 170540 20740 FOUNDER CIR			
				30.00 4005	130000	Accounts Receivable			
							CHECK	136379 TOTAL:	30.00
136380	06/17/2021	PRTD	999997	ECKEL, MICHELLE & STEPHAN	105030	06/03/2021	061721ub		8.74
	Invoice: 105030					UB 6004536 2469 HERITAGE			
				8.74 4005	130000	Accounts Receivable			
							CHECK	136380 TOTAL:	8.74
136381	06/17/2021	PRTD	999997	GRINNELL, JEFFREY	105023	06/03/2021	061721ub		114.86
	Invoice: 105023					UB 6004545 30732 PICADILLY			
				114.86 4001	130000	Accounts Receivable			
							CHECK	136381 TOTAL:	114.86
136382	06/17/2021	PRTD	999997	H & H MANGEMENT INC	105037	06/03/2021	061721ub		52.21
	Invoice: 105037					UB 161220 23960 HADLEY ST			
				52.21 4000	130000	Accounts Receivable			
							CHECK	136382 TOTAL:	52.21
136383	06/17/2021	PRTD	999997	HADDEN, DUSTIN	105033	06/03/2021	061721ub		8.74
	Invoice: 105033					UB 177374 21099 GLEN ST			
				8.74 4005	130000	Accounts Receivable			
							CHECK	136383 TOTAL:	8.74
136384	06/17/2021	PRTD	999997	HOISINGTON, CRYSTAL	105048	06/03/2021	061721ub		65.27
	Invoice: 105048					UB 115295 22526 MOHAVE ST			
				65.27 4000	130000	Accounts Receivable			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
							CHECK	136384 TOTAL:	65.27
136385	06/17/2021	PRTD	999997	LEWIS, SHAYNE	105032	06/03/2021		061721ub	8.74
Invoice: 105032						UB 6002388 21180 HOLLY			
				8.74 4005	130000	Accounts Receivable			
							CHECK	136385 TOTAL:	8.74
136386	06/17/2021	PRTD	999997	MASON, LARRY	105029	06/03/2021		061721ub	8.74
Invoice: 105029						UB 172102 3601 CARLTON ST			
				8.74 4005	130000	Accounts Receivable			
							CHECK	136386 TOTAL:	8.74
136387	06/17/2021	PRTD	999997	OPENDOOR LABS INC	105052	06/03/2021		061721ub	95.58
Invoice: 105052						UB 179232 20917 MAIDEN LN			
				95.58 4005	130000	Accounts Receivable			
							CHECK	136387 TOTAL:	95.58
136388	06/17/2021	PRTD	999997	PETERS, BRUCE & LANCASTER, PAMELA	105022	06/03/2021		061721ub	30.00
Invoice: 105022						UB 6003660 20756 MEDLOCK			
				30.00 4005	130000	Accounts Receivable			
							CHECK	136388 TOTAL:	30.00
136389	06/17/2021	PRTD	999997	REAL PROPERTY MANAGEMENT	105044	06/03/2021		061721ub	89.79
Invoice: 105044						UB 140070 1100 223RD DR			
				89.79 4000	130000	Accounts Receivable			
							CHECK	136389 TOTAL:	89.79
136390	06/17/2021	PRTD	999997	REED, ROBERT & ELIZABETH	105049	06/03/2021		061721ub	20.74
Invoice: 105049						UB 177876 20608 HAMILTON ST			
				20.74 4005	130000	Accounts Receivable			
							CHECK	136390 TOTAL:	20.74
136391	06/17/2021	PRTD	999997	ROSE, GARY	105034	06/03/2021		061721ub	8.74
Invoice: 105034						UB 6005731 20970 GRANADA			
				8.74 4005	130000	Accounts Receivable			
							CHECK	136391 TOTAL:	8.74

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
136392	06/17/2021	PRTD	999997	SCHWARTZ, MARK	105047	06/03/2021		061721ub	59.64
Invoice: 105047						UB 6004105 21244 YALE			
				59.64 4005	130000	Accounts Receivable			
								CHECK 136392 TOTAL:	59.64
136393	06/17/2021	PRTD	999997	SIGNPOST HOMES, INC	105036	06/03/2021		061721ub	89.58
Invoice: 105036						UB 111174 1573 229TH CT			
				89.58 4000	130000	Accounts Receivable			
								CHECK 136393 TOTAL:	89.58
136394	06/17/2021	PRTD	999997	SMITH, LORI	105053	06/03/2021		061721ub	116.46
Invoice: 105053						UB 986088 24867 PUEBLO AVE			
				116.46 4000	130000	Accounts Receivable			
								CHECK 136394 TOTAL:	116.46
136395	06/17/2021	PRTD	999997	TEAGUE, ANDREA & THERESA	105031	06/03/2021		061721ub	149.28
Invoice: 105031						UB 251266 25940 WAHALLA LN			
				149.28 4000	130000	Accounts Receivable			
								CHECK 136395 TOTAL:	149.28
136396	06/17/2021	PRTD	999997	VERNON, RANDY	105045	06/03/2021		061721ub	9.88
Invoice: 105045						UB 170148 20966 LOST CREEK DR			
				9.88 4005	130000	Accounts Receivable			
								CHECK 136396 TOTAL:	9.88
136397	06/17/2021	PRTD	999997	WESTERN AREA POWER ADMINISTRATION	105054	06/03/2021		061721ub	714.25
Invoice: 105054						UB 6007519 DURANGO ST & YUMA			
				714.25 4000	130010	A/R UB Other			
								CHECK 136397 TOTAL:	714.25

NUMBER OF CHECKS 28 *** CASH ACCOUNT TOTAL *** 3,037.58

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	28	3,037.58

*** GRAND TOTAL *** 3,037.58

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

SRC	ACCOUNT	EFF DATE	JNL	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021	12		748									
APP	1000-201000							Accounts Payable			384.55	
		06/17/2021	061721ub	ub0617				AP CASH DISBURSEMENTS JOURNAL				
APP	9999-104000							Cash in Bank - Checking				3,037.58
		06/17/2021	061721ub	ub0617				AP CASH DISBURSEMENTS JOURNAL				
APP	4000-201000							Accounts Payable			2,218.31	
		06/17/2021	061721ub	ub0617				AP CASH DISBURSEMENTS JOURNAL				
APP	4005-201000							Accounts Payable			319.86	
		06/17/2021	061721ub	ub0617				AP CASH DISBURSEMENTS JOURNAL				
APP	4001-201000							Accounts Payable			114.86	
		06/17/2021	061721ub	ub0617				AP CASH DISBURSEMENTS JOURNAL				
								GENERAL LEDGER TOTAL			3,037.58	3,037.58
APP	9999-201010							DT DF			3,037.58	
		06/17/2021	061721ub	ub0617								
APP	1000-101010							Pooled Cash Equity				384.55
		06/17/2021	061721ub	ub0617								
APP	4000-101010							Pooled Cash Equity				2,218.31
		06/17/2021	061721ub	ub0617								
APP	4005-101010							Pooled Cash Equity				319.86
		06/17/2021	061721ub	ub0617								
APP	4001-101010							Pooled Cash Equity				114.86
		06/17/2021	061721ub	ub0617								
								SYSTEM GENERATED ENTRIES TOTAL			3,037.58	3,037.58
								JOURNAL 2021/12/748 TOTAL			6,075.16	6,075.16

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2021 12	748	06/17/2021			
1000-101010			Pooled Cash Equity			384.55
1000-201000			Accounts Payable		384.55	
				FUND TOTAL	384.55	384.55
4000 Water Utility Fund	2021 12	748	06/17/2021			
4000-101010			Pooled Cash Equity			2,218.31
4000-201000			Accounts Payable		2,218.31	
				FUND TOTAL	2,218.31	2,218.31
4001 Wastewater Fund	2021 12	748	06/17/2021			
4001-101010			Pooled Cash Equity			114.86
4001-201000			Accounts Payable		114.86	
				FUND TOTAL	114.86	114.86
4005 Environmental Services	2021 12	748	06/17/2021			
4005-101010			Pooled Cash Equity			319.86
4005-201000			Accounts Payable		319.86	
				FUND TOTAL	319.86	319.86
9999 Pooled Cash	2021 12	748	06/17/2021			
9999-104000			Cash in Bank - Checking			3,037.58
9999-201010			DT DF		3,037.58	
				FUND TOTAL	3,037.58	3,037.58

JOURNAL ENTRIES TO BE CREATED

FUND	DUE TO	DUE FR
1000 General Fund		384.55
4000 Water Utility Fund		2,218.31
4001 Wastewater Fund		114.86
4005 Environmental Services		319.86
9999 Pooled Cash	3,037.58	
TOTAL	3,037.58	3,037.58

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136509	06/23/2021	PRTD	999997	JONES, EMILY	105316	06/10/2021		062321ub	21.26
Invoice: 105316					EXP#000479				
				21.26 4005	130000	Accounts Receivable			
				JONES, EMILY	105317	06/10/2021		062321ub	21.26
Invoice: 105317					EXP#000480				
				21.26 4005	130000	Accounts Receivable			
				JONES, EMILY	105318	06/10/2021		062321ub	21.26
Invoice: 105318					EXP#000481				
				21.26 4005	130000	Accounts Receivable			
						CHECK	136509 TOTAL:		63.78
136510	06/23/2021	PRTD	999997	MIRAND, LINDA	105615	06/17/2021		062321ub	366.53
Invoice: 105615					UB 130435 22484 DESERT BLOOM ST				
				366.53 4000	130000	Accounts Receivable			
						CHECK	136510 TOTAL:		366.53
136511	06/23/2021	PRTD	999997	OFFERPAD LLC	105617	06/17/2021		062321ub	110.16
Invoice: 105617					UB 971103 23817 TAMARISK AVE				
				110.16 4000	130000	Accounts Receivable			
				OFFERPAD LLC	105618	06/17/2021		062321ub	120.80
Invoice: 105618					UB 972137 23802 ATLANTA AVE				
				120.80 4000	130000	Accounts Receivable			
						CHECK	136511 TOTAL:		230.96
136512	06/23/2021	PRTD	999997	OPENDOOR LABS INC	105349	06/10/2021		062321ub	52.00
Invoice: 105349					EXP#000512				
				52.00 4000	130000	Accounts Receivable			
				OPENDOOR LABS INC	105350	06/10/2021		062321ub	5.39
Invoice: 105350					EXP#000513				
				5.39 4000	130000	Accounts Receivable			
						CHECK	136512 TOTAL:		57.39
136514	06/23/2021	PRTD	999997	TLD BUILDERS LLC	105324	06/10/2021		062321ub	53.89
Invoice: 105324					EXP#000487				
				53.89 4000	130000	Accounts Receivable			
				TLD BUILDERS LLC	105331	06/10/2021		062321ub	32.59
Invoice: 105331					EXP#000494				
				32.59 4000	130000	Accounts Receivable			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
				TLD BUILDERS LLC	105332	06/10/2021		062321ub	31.38
Invoice: 105332						EXP#000495			
				31.38 4000	130000	Accounts Receivable			
							CHECK	136514 TOTAL:	117.86
136515	06/23/2021	PRTD	999997	WEAVER, ALICIA	105614	06/17/2021		062321ub	115.10
Invoice: 105614						UB 187749 21699 HESS AVE			
				115.10 4001	130000	Accounts Receivable			
				WEAVER, ALICIA	105619	06/17/2021		062321ub	14.53
Invoice: 105619						UB 187749 21699 HESS AVE			
				14.53 4000	130000	Accounts Receivable			
							CHECK	136515 TOTAL:	129.63
136516	06/23/2021	PRTD	999997	180 APACHE INVESTORS	105329	06/10/2021		062321ub	35.66
Invoice: 105329						EXP#000492			
				35.66 4000	130000	Accounts Receivable			
							CHECK	136516 TOTAL:	35.66
136517	06/23/2021	PRTD	999997	APONTE TRISHA	105336	06/10/2021		062321ub	86.50
Invoice: 105336						EXP#000499			
				86.50 4000	130000	Accounts Receivable			
							CHECK	136517 TOTAL:	86.50
136518	06/23/2021	PRTD	999997	BITIKOFER, RANDY	105347	06/10/2021		062321ub	8.74
Invoice: 105347						EXP#000510			
				8.74 4005	130000	Accounts Receivable			
							CHECK	136518 TOTAL:	8.74
136519	06/23/2021	PRTD	999997	BOLAND, BRANDON	105620	06/17/2021		062321ub	19.81
Invoice: 105620						UB 103810 25256 PARKSIDE LN N			
				19.81 4000	130000	Accounts Receivable			
							CHECK	136519 TOTAL:	19.81
136520	06/23/2021	PRTD	999997	BRESNAHAN, MARIA	105621	06/17/2021		062321ub	51.82
Invoice: 105621						UB 987979 7345 252ND LN			
				51.82 4000	130000	Accounts Receivable			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
						CHECK		136520 TOTAL:	51.82
136521	06/23/2021	PRTD	999997	BUCKEYE MOBILE DEVELOPMENT LLC	105345	06/10/2021		062321ub	33.79
Invoice: 105345						EXP#000508			
				33.79 4000	130000	Accounts Receivable			
						CHECK		136521 TOTAL:	33.79
136522	06/23/2021	PRTD	999997	BUENA VISTA	105323	06/10/2021		062321ub	151.15
Invoice: 105323						EXP#000486			
				151.15 4000	130000	Accounts Receivable			
						CHECK		136522 TOTAL:	151.15
136523	06/23/2021	PRTD	999997	CENTURY 21 NORTHWEST	105348	06/10/2021		062321ub	82.98
Invoice: 105348						EXP#000511			
				82.98 4000	130000	Accounts Receivable			
						CHECK		136523 TOTAL:	82.98
136524	06/23/2021	PRTD	999997	CIESZKO, LORI	105320	06/10/2021		062321ub	118.43
Invoice: 105320						EXP#000483			
				118.43 4001	130000	Accounts Receivable			
						CHECK		136524 TOTAL:	118.43
136525	06/23/2021	PRTD	999997	CLAYTON HOMES INC	105330	06/10/2021		062321ub	48.59
Invoice: 105330						EXP#000493			
				48.59 4000	130000	Accounts Receivable			
						CHECK		136525 TOTAL:	48.59
136526	06/23/2021	PRTD	999997	CRAIG, MARK	105338	06/10/2021		062321ub	32.91
Invoice: 105338						EXP#000501			
				32.91 4000	130000	Accounts Receivable			
						CHECK		136526 TOTAL:	32.91
136527	06/23/2021	PRTD	999997	ESPINOZA, HUGO	105352	06/10/2021		062321ub	8.74
Invoice: 105352						EXP#000515			
				8.74 4005	130000	Accounts Receivable			
						CHECK		136527 TOTAL:	8.74

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
136528	06/23/2021	PRTD	999997	FACCINTO, KATIE & CAPPUCCILLI, TO	105342	06/10/2021		062321ub	8.74
Invoice: 105342						EXP#000505			
				8.74 4005	130000	Accounts Receivable			
						CHECK	136528 TOTAL:		8.74
136529	06/23/2021	PRTD	999997	FLISAKOWSKI, MICHAEL	105626	06/17/2021		062321ub	46.96
Invoice: 105626						UB 141270 968 223RD LN			
				46.96 4000	130000	Accounts Receivable			
						CHECK	136529 TOTAL:		46.96
136530	06/23/2021	PRTD	999997	FODELL, BRIAN J.	105353	06/10/2021		062321ub	42.62
Invoice: 105353						EXP#000516			
				42.62 4000	130000	Accounts Receivable			
						CHECK	136530 TOTAL:		42.62
136531	06/23/2021	PRTD	999997	FUND LLC, METROPOLITAN PENSION	105328	06/10/2021		062321ub	114.86
Invoice: 105328						EXP#000491			
				114.86 4000	130000	Accounts Receivable			
						CHECK	136531 TOTAL:		114.86
136532	06/23/2021	PRTD	999997	GARCIA, YAJARA & JORGE	105629	06/17/2021		062321ub	127.92
Invoice: 105629						UB 985708 25622 ELWOOD ST			
				127.92 4000	130000	Accounts Receivable			
						CHECK	136532 TOTAL:		127.92
136533	06/23/2021	PRTD	999997	GAZDEWICH, CONNIE	105627	06/17/2021		062321ub	53.27
Invoice: 105627						UB 125430 157 227TH LN			
				53.27 4000	130000	Accounts Receivable			
						CHECK	136533 TOTAL:		53.27
136534	06/23/2021	PRTD	999997	GONZALEZ, EDUARDO	105343	06/10/2021		062321ub	51.19
Invoice: 105343						EXP#000506			
				51.19 4001	130000	Accounts Receivable			
						CHECK	136534 TOTAL:		51.19

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
136535	06/23/2021	PRTD	999997	HAMBLEN, CHELSIE & ARRON	105337	06/10/2021		062321ub	89.61
	Invoice: 105337					EXP#000500			
				89.61 4000	130010	A/R UB Other			
						CHECK		136535 TOTAL:	89.61
136536	06/23/2021	PRTD	999997	HARRETT, CANDACE	105623	06/17/2021		062321ub	45.52
	Invoice: 105623					UB 987090 6123 257TH DR			
				45.52 4000	130000	Accounts Receivable			
						CHECK		136536 TOTAL:	45.52
136537	06/23/2021	PRTD	999997	HARRIS, RAMONA	105340	06/10/2021		062321ub	216.83
	Invoice: 105340					EXP#000503			
				216.83 4000	130000	Accounts Receivable			
						CHECK		136537 TOTAL:	216.83
136538	06/23/2021	PRTD	999997	HARVEY, JONATHAN	105335	06/10/2021		062321ub	67.18
	Invoice: 105335					EXP#000498			
				67.18 4000	130000	Accounts Receivable			
						CHECK		136538 TOTAL:	67.18
136539	06/23/2021	PRTD	999997	HOOGENBOOM, LANA	105625	06/17/2021		062321ub	62.81
	Invoice: 105625					UB 130513 857 224TH LN			
				62.81 4000	130000	Accounts Receivable			
						CHECK		136539 TOTAL:	62.81
136540	06/23/2021	PRTD	999997	HPA US1 LLC	105355	06/10/2021		062321ub	85.50
	Invoice: 105355					EXP#000518			
				85.50 4000	130000	Accounts Receivable			
						CHECK		136540 TOTAL:	85.50
136541	06/23/2021	PRTD	999997	KLAN, LEAH & TYLER	105622	06/17/2021		062321ub	66.63
	Invoice: 105622					UB 6005011 30763 INDIANOLA			
				66.63 4000	130000	Accounts Receivable			
						CHECK		136541 TOTAL:	66.63

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
136542	06/23/2021	PRTD	999997	LESTER, ANGELA	105325	06/10/2021		062321ub	21.26
	Invoice: 105325					EXP#000488			
				21.26 4005 130000		Accounts Receivable			
						CHECK	136542 TOTAL:		21.26
136543	06/23/2021	PRTD	999997	MEJIA, JOSE & ROSA	105334	06/10/2021		062321ub	119.39
	Invoice: 105334					EXP#000497			
				119.39 4000 130000		Accounts Receivable			
						CHECK	136543 TOTAL:		119.39
136544	06/23/2021	PRTD	999997	METROPOLITAN REAL ESTATE	105624	06/17/2021		062321ub	66.96
	Invoice: 105624					UB 163930 981 242ND DR			
				66.96 4000 130000		Accounts Receivable			
						CHECK	136544 TOTAL:		66.96
136545	06/23/2021	PRTD	999997	OGRODNICK, ADELE	105322	06/10/2021		062321ub	131.61
	Invoice: 105322					EXP#000485			
				131.61 4000 130000		Accounts Receivable			
						CHECK	136545 TOTAL:		131.61
136546	06/23/2021	PRTD	999997	OPENDOOR LABS INC	105630	06/17/2021		062321ub	21.26
	Invoice: 105630					UB 171112 21154 CORONADO RD			
				21.26 4005 130000		Accounts Receivable			
						CHECK	136546 TOTAL:		21.26
136547	06/23/2021	PRTD	999997	OPENDOOR LABS INC	105616	06/17/2021		062321ub	58.10
	Invoice: 105616					UB 801731 19631 LINCOLN ST			
				58.10 4001 130000		Accounts Receivable			
						CHECK	136547 TOTAL:		58.10
136548	06/23/2021	PRTD	999997	PARAMOUNT PROPERTY MGMT	105354	06/10/2021		062321ub	38.65
	Invoice: 105354					EXP#000517			
				38.65 4000 130000		Accounts Receivable			
						CHECK	136548 TOTAL:		38.65

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
136549	06/23/2021	PRTD	999997	PRENDEZ, FELIX	105341	06/10/2021		062321ub	44.08
	Invoice: 105341					EXP#000504			
				44.08 4000 130000		Accounts Receivable			
						CHECK	136549 TOTAL:		44.08
136550	06/23/2021	PRTD	999997	PROCHKO, MICHAEL	105333	06/10/2021		062321ub	257.52
	Invoice: 105333					EXP#000496			
				257.52 4000 130000		Accounts Receivable			
						CHECK	136550 TOTAL:		257.52
136551	06/23/2021	PRTD	999997	PROCOM INVESTMENTS, LLC	105321	06/10/2021		062321ub	122.96
	Invoice: 105321					EXP#000484			
				122.96 4000 130000		Accounts Receivable			
						CHECK	136551 TOTAL:		122.96
136552	06/23/2021	PRTD	999997	RESENDEZ, ANDRIA & VIERRA, DANIEL	105339	06/10/2021		062321ub	54.34
	Invoice: 105339					EXP#000502			
				54.34 4000 130000		Accounts Receivable			
						CHECK	136552 TOTAL:		54.34
136553	06/23/2021	PRTD	999997	RUTHERFORD DIVERSIFIED INDUSTRIES	105319	06/10/2021		062321ub	1,047.77
	Invoice: 105319					EXP#000482			
				1,047.77 4000 130000		Accounts Receivable			
						CHECK	136553 TOTAL:		1,047.77
136554	06/23/2021	PRTD	999997	SMITH, PATTI	105346	06/10/2021		062321ub	8.74
	Invoice: 105346					EXP#000509			
				8.74 4005 130000		Accounts Receivable			
						CHECK	136554 TOTAL:		8.74
136555	06/23/2021	PRTD	999997	SULLIVAN, CAROL	105351	06/10/2021		062321ub	75.60
	Invoice: 105351					EXP#000514			
				75.60 4000 130000		Accounts Receivable			
						CHECK	136555 TOTAL:		75.60

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
136556	06/23/2021	PRTD	999997	THOMAS, ALEX	105344	06/10/2021		062321ub	20.53
	Invoice: 105344					EXP#000507			
				20.53 4000 130010 A/R UB Other					
						CHECK	136556 TOTAL:		20.53
136557	06/23/2021	PRTD	999997	THOMAS, LINDSEY M.	105326	06/10/2021		062321ub	154.74
	Invoice: 105326					EXP#000489			
				154.74 4000 130000 Accounts Receivable					
						CHECK	136557 TOTAL:		154.74
136558	06/23/2021	PRTD	999997	VALENZUELA, LYDIA	105327	06/10/2021		062321ub	106.39
	Invoice: 105327					EXP#000490			
				106.39 4000 130000 Accounts Receivable					
						CHECK	136558 TOTAL:		106.39

NUMBER OF CHECKS 49 *** CASH ACCOUNT TOTAL *** 5,074.81

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	49	5,074.81

*** GRAND TOTAL *** 5,074.81

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

SRC	ACCOUNT	EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2021 12	1070										
APP	4005-201000						Accounts Payable			141.26	
		06/23/2021	062321ub	ub0623			AP CASH DISBURSEMENTS JOURNAL				
APP	9999-104000						Cash in Bank - Checking				5,074.81
		06/23/2021	062321ub	ub0623			AP CASH DISBURSEMENTS JOURNAL				
APP	4000-201000						Accounts Payable			4,590.73	
		06/23/2021	062321ub	ub0623			AP CASH DISBURSEMENTS JOURNAL				
APP	4001-201000						Accounts Payable			342.82	
		06/23/2021	062321ub	ub0623			AP CASH DISBURSEMENTS JOURNAL				
							GENERAL LEDGER TOTAL			5,074.81	5,074.81
APP	9999-201010						DT DF			5,074.81	
		06/23/2021	062321ub	ub0623							
APP	4005-101010						Pooled Cash Equity				141.26
		06/23/2021	062321ub	ub0623							
APP	4000-101010						Pooled Cash Equity				4,590.73
		06/23/2021	062321ub	ub0623							
APP	4001-101010						Pooled Cash Equity				342.82
		06/23/2021	062321ub	ub0623							
							SYSTEM GENERATED ENTRIES TOTAL			5,074.81	5,074.81
							JOURNAL 2021/12/1070 TOTAL			10,149.62	10,149.62

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
4000 Water Utility Fund	2021 12	1070	06/23/2021			
4000-101010			Pooled Cash Equity			4,590.73
4000-201000			Accounts Payable		4,590.73	
				FUND TOTAL	4,590.73	4,590.73
4001 Wastewater Fund	2021 12	1070	06/23/2021			
4001-101010			Pooled Cash Equity			342.82
4001-201000			Accounts Payable		342.82	
				FUND TOTAL	342.82	342.82
4005 Environmental Services	2021 12	1070	06/23/2021			
4005-101010			Pooled Cash Equity			141.26
4005-201000			Accounts Payable		141.26	
				FUND TOTAL	141.26	141.26
9999 Pooled Cash	2021 12	1070	06/23/2021			
9999-104000			Cash in Bank - Checking			5,074.81
9999-201010			DT DF		5,074.81	
				FUND TOTAL	5,074.81	5,074.81

JOURNAL ENTRIES TO BE CREATED

FUND	DUE TO	DUE FR
4000 Water Utility Fund		4,590.73
4001 Wastewater Fund		342.82
4005 Environmental Services		141.26
9999 Pooled Cash	5,074.81	
TOTAL	5,074.81	5,074.81

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136735	07/07/2021	PRTD	6456	3 MINUTE BUCKEYE LLC	May 2021	06/13/2021	22100629	070721ap	121.94
	Invoice: May 2021					Car Wash for Vehicles for Civi			
					121.94 10005185 521508	Automotive Expenses			
				3 MINUTE BUCKEYE LLC	June 2021	06/29/2021	22100629	070721ap	114.94
	Invoice: June 2021					Car Wash for Vehicles for Civi			
					114.94 10005185 521508	Automotive Expenses			
						CHECK 136735 TOTAL:			236.88
136736	07/07/2021	PRTD	5566	ACRO SERVICE CORPORATION	1349627	06/29/2021	22100256	070721ap	1,273.00
	Invoice: 1349627					ENGINEERING SERVICES, PROFESSI			
					1,273.00 10005185 520037	Professional Services General			
				ACRO SERVICE CORPORATION	1356352	06/30/2021	22100256	070721ap	2,036.80
	Invoice: 1356352					ENGINEERING SERVICES, PROFESSI			
					2,036.80 10005185 520037	Professional Services General			
				ACRO SERVICE CORPORATION	1356424	06/30/2021	22100055	070721ap	743.20
	Invoice: 1356424					Temporary Labor for Water Admi			
					371.60 40003210 520037	Professional Services General			
					371.60 40013220 520037	Professional Services General			
						CHECK 136736 TOTAL:			4,053.00
136737	07/07/2021	PRTD	1517	ALBERT HOLLER & ASSOCIATES	June 30 2021	06/30/2021	22100394	070721ap	5,000.00
	Invoice: June 30 2021					Open PO for Auditing COB Contr			
					5,000.00 10001110 520037	Professional Services General			
						CHECK 136737 TOTAL:			5,000.00
136738	07/07/2021	PRTD	5141	ANDREWS REFRIGERATION	121033	06/29/2021	22100332	070721ap	3,730.63
	Invoice: 121033					FY 20/21 - CITYWIDE HVAC & PLU			
					3,730.63 10003172 520512	Building Repairs			
				ANDREWS REFRIGERATION	36442	06/01/2021	22100261	070721ap	774.66
	Invoice: 36442					FY 20/21 - SUNDANCE HVAC & PLU			
					774.66 10003176 520512	Building Repairs			
				ANDREWS REFRIGERATION	120716	06/24/2021	22100379	070721ap	136.00
	Invoice: 120716					AIR CONDITIONING AND HEATING R			
					74.95 40013223 520543	WW R&M			
					61.05 40013224 520543	WW R&M			
				ANDREWS REFRIGERATION	119845	06/30/2021	22100230	070721ap	720.05
	Invoice: 119845					HVAC & REPAIR SERVICES FOR CEN			
					312.27 40013221 520540	Wastewater Plant R & M			
					407.78 40013222 520543	WW R&M			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136738 TOTAL:	5,361.34
136739	07/07/2021	PRTD	1095	ANTHONY'S BACKFLOW INC	090-21	04/25/2021	22100405	070721ap	273.00
	Invoice: 090-21					ANNUAL BACKFLOW TESTING AT WAT			
					4.13 40003215 520577	Reservoir/Booster Maint/Repair			
					268.87 40003218 520577	Reservoir/Booster Maint/Repair			
							CHECK	136739 TOTAL:	273.00
136740	07/07/2021	PRTD	1137	ARIZONA WATER COMPANY	JUNE 2021	06/30/2021	22100159	070721ap	75.00
	Invoice: JUNE 2021					DATA PROCESSING CARDS AND PAPE			
					75.00 40013230 520037	Professional Services General			
							CHECK	136740 TOTAL:	75.00
136741	07/07/2021	PRTD	6665	ASPIN/MOHAVE	21B08526	06/22/2021		070721ap	2,762.43
	Invoice: 21B08526					Food and supplies for senior meal programs			
					2,762.43 35754150 521502	Program Supplies/Equipment			
							CHECK	136741 TOTAL:	2,762.43
136742	07/07/2021	PRTD	1043	ACCESS SECURITY SYSTEMS INCORPORA	52222	06/30/2021	22101148	070721ap	5,746.61
	Invoice: 52222					Water Treatment Plants Badge Access Controls			
					5,746.61 40001113 543139	Access Control Wtr Prod Well			
							CHECK	136742 TOTAL:	5,746.61
136743	07/07/2021	PRTD	1043	ASSI SECURITY OF ARIZONA	52212-R	06/29/2021	22101163	070721ap	7,020.58
	Invoice: 52212-R					ACCESS CONTROL FOR MUSEUM AND DOWNTOWN LIBRARY			
					7,020.58 10004151 521521	IT Equipment <$5000			
				ASSI SECURITY OF ARIZONA	52211-R	06/29/2021	22101163	070721ap	10,100.59
	Invoice: 52211-R					ACCESS CONTROL FOR MUSEUM AND DOWNTOWN LIBRARY			
					10,100.59 10004151 521521	IT Equipment <$5000			
				ASSI SECURITY OF ARIZONA	52219	06/30/2021	22101219	070721ap	773.50
	Invoice: 52219					CITY HALL 2nd FLOOR FIX DOOR			
					773.50 10001189 520018	General Contractual Services			
				ASSI SECURITY OF ARIZONA	52220	06/30/2021	22101148	070721ap	5,642.11
	Invoice: 52220					Water Treatment Plants Badge Access Controls			
					5,642.11 40001113 543139	Access Control Wtr Prod Well			
				ASSI SECURITY OF ARIZONA	52218	06/30/2021	22101148	070721ap	7,435.10
	Invoice: 52218					Water Treatment Plants Badge Access Controls			
					7,435.10 40001113 543139	Access Control Wtr Prod Well			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
				ASSI SECURITY OF ARIZONA	52216	06/30/2021	22101148	070721ap	4,885.11
	Invoice: 52216					Water Treatment Plants Badge Access Controls			
				4,885.11	40001113 543139	Access Control Wtr Prod Well			
				ASSI SECURITY OF ARIZONA	52217	06/30/2021	22101148	070721ap	4,885.11
	Invoice: 52217					Water Treatment Plants Badge Access Controls			
				4,885.11	40001113 543139	Access Control Wtr Prod Well			
				ASSI SECURITY OF ARIZONA	52221	06/30/2021	22101148	070721ap	4,784.10
	Invoice: 52221					Water Treatment Plants Badge Access Controls			
				4,784.10	40001113 543139	Access Control Wtr Prod Well			
						CHECK	136743 TOTAL:		45,526.20
136744	07/07/2021	PRTD	6796	ASSURED DOCUMENT DESTRUCTION, INC	355221	06/28/2021	22100987	070721ap	125.00
	Invoice: 355221					OPEN PO Shredding Services			
				125.00	10002121 520052	Specialized/Comp Rel Services			
						CHECK	136744 TOTAL:		125.00
136745	07/07/2021	PRTD	6884	AZPRO	182934	05/07/2021	22101360	070721ap	6,935.24
	Invoice: 182934					I-10 Widening Signage			
				6,935.24	10001108 521534	Program Supplies Gen Rec			
						CHECK	136745 TOTAL:		6,935.24
136746	07/07/2021	PRTD	1183	AZTEC ENGINEERING GROUP, INC.	201605	06/30/2021	22101361	070721ap	1,959.00
	Invoice: 201605					AZTEC 1-10 Channel - Perryville Rd Basin DCR			
				1,959.00	10005185 520037	Professional Services General			
						CHECK	136746 TOTAL:		1,959.00
136747	07/07/2021	PRTD	1924	SOUTHWEST RISK SERVICES	53532	06/27/2021		070721ap	2,750.00
	Invoice: 53532					Insurance for coverage for 4th of July celebration			
				2,750.00	30584160 521502	Program Supplies/Equipment			
						CHECK	136747 TOTAL:		2,750.00
136748	07/07/2021	PRTD	1124	ARIZONA LANGUAGE SPECIALISTS	June 30, 2021	06/30/2021	22100081	070721ap	1,539.40
	Invoice: June 30, 2021					Arizona Language Specialist (I			
				1,539.40	10002120 520037	Professional Services General			
						CHECK	136748 TOTAL:		1,539.40

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136749	07/07/2021	PRTD	6301	BRIGHTVIEW LANDSCAPE SERVICES INC	7444946	06/29/2021	22100971	070721ap	6,435.21
Invoice: 7444946					BUCKEYE AIRPORT - PRE AND POST EMERGENT				
				6,435.21 10003172 520037	Professional Services General				
							CHECK	136749 TOTAL:	6,435.21
136750	07/07/2021	PRTD	3107	CALMAT CO	80829502	05/05/2021	22100350	070721ap	222.79
Invoice: 80829502					FY 20/21 - ASPHALT/ PATCHING M				
				222.79 38103202 520502	Street Overlay R & M				
							CHECK	136750 TOTAL:	222.79
136751	07/07/2021	PRTD	6235	CONSULTANT ENGINEERING, INC.	0116764.01-210603S	06/30/2021	22101174	070721ap	27,262.80
Invoice: 0116764.01-210603S					Task Order No. 4 Plan Review Services				
				27,262.80 10005185 520006	Engineering Services				
							CHECK	136751 TOTAL:	27,262.80
136752	07/07/2021	PRTD	1343	CUMMINS ROCKY MOUNTAIN, LLC	54-78307	06/30/2021	22100290	070721ap	8,498.28
Invoice: 54-78307					EQUIPMENT MAINTENANCE AND REPA				
				8,498.28 40003218 520515	Generator R & M				
				CUMMINS ROCKY MOUNTAIN, LLC	54-78063	06/30/2021	22100290	070721ap	10,777.42
Invoice: 54-78063					EQUIPMENT MAINTENANCE AND REPA				
				10,777.42 40003218 520515	Generator R & M				
							CHECK	136752 TOTAL:	19,275.70
136753	07/07/2021	PRTD	1355	DAVE BANG ASSOCIATES, INC.	AZ66274	06/30/2021	22100962	070721ap	4,915.84
Invoice: AZ66274					PARK, PLAYGROUND, RECREATIONAL AREA AND SWIMMING P				
				4,915.84 10004155 522155	Operational Supplies				
							CHECK	136753 TOTAL:	4,915.84
136754	07/07/2021	PRTD	5337	DESERT CHOICE TRANSPORT, LLC	6258	06/30/2021	22101330	070721ap	11,286.00
Invoice: 6258					Summer 2021 transportation for youth programs				
				11,286.00 10004153 521537	Program Transportation				
							CHECK	136754 TOTAL:	11,286.00
136755	07/07/2021	PRTD	3032	ECD SYSTEMS LLC	16615	05/12/2021	22100138	070721ap	26.00
Invoice: 16615					FY 20/21 - CITYWIDE FIRE MONIT				
				26.00 10003172 526121	On-line Subscriptions				
				ECD SYSTEMS LLC	16613	05/12/2021	22100138	070721ap	26.00

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
Invoice: 16613						FY 20/21 - CITYWIDE FIRE MONIT			
					26.00 10003172 526121	On-line Subscriptions			
			ECD	SYSTEMS LLC	16597	05/12/2021	22100138	070721ap	142.70
Invoice: 16597						FY 20/21 - CITYWIDE FIRE MONIT			
					142.70 10003172 526121	On-line Subscriptions			
			ECD	SYSTEMS LLC	16625	05/12/2021	22100138	070721ap	26.00
Invoice: 16625						FY 20/21 - CITYWIDE FIRE MONIT			
					26.00 10003172 526121	On-line Subscriptions			
			ECD	SYSTEMS LLC	16624	05/12/2021	22100138	070721ap	46.00
Invoice: 16624						FY 20/21 - CITYWIDE FIRE MONIT			
					46.00 10003172 526121	On-line Subscriptions			
			ECD	SYSTEMS LLC	16623	05/12/2021	22100138	070721ap	44.00
Invoice: 16623						FY 20/21 - CITYWIDE FIRE MONIT			
					44.00 10003172 526121	On-line Subscriptions			
			ECD	SYSTEMS LLC	16622	05/12/2021	22100138	070721ap	44.00
Invoice: 16622						FY 20/21 - CITYWIDE FIRE MONIT			
					44.00 10003172 526121	On-line Subscriptions			
			ECD	SYSTEMS LLC	16621	05/12/2021	22100138	070721ap	44.00
Invoice: 16621						FY 20/21 - CITYWIDE FIRE MONIT			
					44.00 10003172 526121	On-line Subscriptions			
			ECD	SYSTEMS LLC	16619	05/12/2021	22100138	070721ap	44.00
Invoice: 16619						FY 20/21 - CITYWIDE FIRE MONIT			
					44.00 10003172 526121	On-line Subscriptions			
			ECD	SYSTEMS LLC	16620	05/12/2021	22100138	070721ap	44.00
Invoice: 16620						FY 20/21 - CITYWIDE FIRE MONIT			
					44.00 10003172 526121	On-line Subscriptions			
						CHECK	136755 TOTAL:		486.70
136756	07/07/2021	PRTD	6860	EFFECTIVE SIGNS, LTD	21998	06/21/2021	22101210	070721ap	6,001.30
Invoice: 21998						Wayfinding Signage - Coyote & Downtown Libraries			
					6,001.30 10004151 521715	Signs & Markings			
				EFFECTIVE SIGNS, LTD	21997	06/21/2021	22101210	070721ap	5,451.60
Invoice: 21997						Wayfinding Signage - Coyote & Downtown Libraries			
					5,451.60 10004151 521715	Signs & Markings			
						CHECK	136756 TOTAL:		11,452.90
136757	07/07/2021	PRTD	6346	ELEVATE TRAMPOLINE PARK	06302021	06/30/2021	22101308	070721ap	756.16
Invoice: 06302021						Summer 2021 youth programs field trips			
					756.16 10004153 520015	Contractual Svc BASE			

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CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136757 TOTAL:	756.16
136758	07/07/2021	PRTD	6760	FARO TECHNOLOGIES, INC.	91232549	06/29/2021	22101367	070721ap	9,063.65
	Invoice: 91232549					FARO Hardware			
					9,063.65 10002121 520525	Hardware Maintenance			
							CHECK	136758 TOTAL:	9,063.65
136759	07/07/2021	PRTD	6226	FARRWEST ENVIRONMENTAL SUPPLY, IN	37153	06/29/2021	22101327	070721ap	9,230.70
	Invoice: 37153					Hazardous Materials Equipment			
					4,615.35 10002140 522155	Operational Supplies			
					4,615.35 35772140 523013	Nuc Emerg. Mgmt Expenditure			
							CHECK	136759 TOTAL:	9,230.70
136760	07/07/2021	PRTD	1432	FERGUSON WATERWORKS #3083	0430138	06/29/2021	22101331	070721ap	2,447.30
	Invoice: 0430138					FIRE HYDRANT PARTS FOR HYDRANT REPAIRS			
					2,447.30 40003350 521514	Water Distrib System R&M			
				FERGUSON WATERWORKS #3083	0430524	06/15/2021	22101331	070721ap	4,004.91
	Invoice: 0430524					FIRE HYDRANT PARTS FOR HYDRANT REPAIRS			
					4,004.91 40003350 521514	Water Distrib System R&M			
				FERGUSON WATERWORKS #3083	0430141	06/10/2021	22101331	070721ap	1,819.54
	Invoice: 0430141					FIRE HYDRANT PARTS FOR HYDRANT REPAIRS			
					1,819.54 40003350 521514	Water Distrib System R&M			
				FERGUSON WATERWORKS #3083	0430134	06/30/2021	22100165	070721ap	4,968.67
	Invoice: 0430134					EQUIPMENT MAINTENANCE AND REPA			
					828.02 40003215 520577	Reservoir/Booster Maint/Repair			
					4,140.65 40003216 520577	Reservoir/Booster Maint/Repair			
							CHECK	136760 TOTAL:	13,240.42
136761	07/07/2021	PRTD	1489	GUST ROSENFELD P.L.C.	375311	06/23/2021		070721ap	2,418.31
	Invoice: 375311					CIP Apache/Southern Intersection Improv.			
					2,418.31 50213170 543072	Apache & Southern TS			
							CHECK	136761 TOTAL:	2,418.31
136762	07/07/2021	PRTD	3068	MAKUTU'S ISLAND	518547	06/15/2021	22101292	070721ap	234.40
	Invoice: 518547					Summer 2021 youth programs field trip			
					234.40 10004153 520015	Contractual Svc BASE			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136762 TOTAL:	234.40
136763	07/07/2021	PRTD	5537	HAZEN AND SAWYER	22100860-4	04/20/2021	22100860	070721ap	8,843.75
	Invoice: 22100860-4					TO #11 RECOMMEND REHAB OF 2 STEEL TANKS			
					8,843.75 40001113 543125	Sundance Reclaim Tanks Rehab			
				HAZEN AND SAWYER	22100860-3	03/15/2021	22100860	070721ap	2,684.75
	Invoice: 22100860-3					TO #11 RECOMMEND REHAB OF 2 STEEL TANKS			
					2,684.75 40001113 543125	Sundance Reclaim Tanks Rehab			
				HAZEN AND SAWYER	22000923-8	04/24/2020		070721ap	8,892.35
	Invoice: 22000923-8					Manhole Assessment & Rehab PO2200440 closed			
					8,892.35 40011113 543134	Manhole Rehab & Assessment			
							CHECK	136763 TOTAL:	20,420.85
136764	07/07/2021	PRTD	5180	HDR ENGINEERING, INC	1200356312	06/30/2021	22100758	070721ap	4,060.00
	Invoice: 1200356312					ENGINEERING SERVICES, PROFESSI			
					4,060.00 10005185 520006	Engineering Services			
							CHECK	136764 TOTAL:	4,060.00
136765	07/07/2021	PRTD	6322	HEINFELD, MEECH & CO. P.C.	101932	06/30/2021	22100408	070721ap	13,692.75
	Invoice: 101932					AUDITING SERVICES			
					13,692.75 10001110 520002	Audit Services			
							CHECK	136765 TOTAL:	13,692.75
136766	07/07/2021	PRTD	1509	HENRY SCHEIN INC	93770638	06/09/2021	22100172	070721ap	325.17
	Invoice: 93770638					Medical Supplies			
					325.17 10002140 522153	Medical Supplies			
							CHECK	136766 TOTAL:	325.17
136767	07/07/2021	PRTD	1513	HILL BROTHERS CHEMICAL COMPANY	07095519	05/28/2021	22100043	070721ap	3,329.46
	Invoice: 07095519					CHEMICALS TO TREAT AND DISINFE			
					3,329.46 40003216 521540	Chemicals			
							CHECK	136767 TOTAL:	3,329.46
136768	07/07/2021	PRTD	1551	INTERIOR SOLUTIONS OF AZ, LLC	118231-1-MB	06/16/2021	22101016	070721ap	13,799.88
	Invoice: 118231-1-MB					FFE SUNDANCE CROSSING TI			
					13,799.88 50214150 543056	Sundance Xing Tenant Improveme			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136768 TOTAL:	13,799.88
136769	07/07/2021	PRTD	5666	KIMLEY-HORN AND ASSOCIATES, INC.	19057128	06/30/2021	22100847	070721ap	11,900.00
Invoice: 19057128						Design of Communication Tower			
					11,900.00 50212121 543053	Comm Tower, ParkNRide			
							CHECK	136769 TOTAL:	11,900.00
136770	07/07/2021	PRTD	6190	LEGEND TECHNICAL SERVICES, INC.	2109365	06/30/2021	22100416	070721ap	1,536.00
Invoice: 2109365						LEGEND LABORATORY FEES WASTEWA			
					1,536.00 40013224 520049	Laboratory Fees			
				LEGEND TECHNICAL SERVICES, INC.	2109364	06/30/2021	22100416	070721ap	2,384.00
Invoice: 2109364						LEGEND LABORATORY FEES WASTEWA			
					2,384.00 40013222 520049	Laboratory Fees			
				LEGEND TECHNICAL SERVICES, INC.	2109367	06/30/2021	22100416	070721ap	1,925.00
Invoice: 2109367						LEGEND LABORATORY FEES WASTEWA			
					1,925.00 40013224 520049	Laboratory Fees			
				LEGEND TECHNICAL SERVICES, INC.	219366	06/30/2021	22100416	070721ap	1,432.00
Invoice: 219366						LEGEND LABORATORY FEES WASTEWA			
					1,059.00 40013221 520049	Laboratory Fees			
					373.00 40013222 520049	Laboratory Fees			
				LEGEND TECHNICAL SERVICES, INC.	2109361	06/30/2021	22100152	070721ap	1,544.00
Invoice: 2109361						DRINKING WATER SAMPLING			
					210.46 40003212 520049	Laboratory Fees			
					153.24 40003213 520049	Laboratory Fees			
					429.47 40003214 520049	Laboratory Fees			
					153.81 40003215 520049	Laboratory Fees			
					100.88 40003216 520049	Laboratory Fees			
					80.27 40003217 520049	Laboratory Fees			
					333.71 40003218 520049	Laboratory Fees			
					82.16 40003219 520049	Laboratory Fees			
							CHECK	136770 TOTAL:	8,821.00
136771	07/07/2021	PRTD	5342	M & M PORTABLE TOILETS LLC	I6447	05/05/2021	22100056	070721ap	218.60
Invoice: I6447						HOLDING TANK & SERVICE FOR LOW			
					218.60 40003218 520037	Professional Services General			
				M & M PORTABLE TOILETS LLC	I6448	06/02/2021	22100056	070721ap	218.60
Invoice: I6448						HOLDING TANK & SERVICE FOR LOW			
					218.60 40003218 520037	Professional Services General			
				M & M PORTABLE TOILETS LLC	I6261	06/29/2021	22100319	070721ap	163.95
Invoice: I6261						Toilet and Sink Rental at Ceme			
					163.95 50012140 521505	Equipment Rental			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
								CHECK 136771 TOTAL:	601.15
136772	07/07/2021	PRTD	5573	PROMOTIONS WITH PERSONALITY	1777	06/23/2021	22100540	070721ap	1,880.00
Invoice: 1777						BYC Shirts			
					1,880.00 10001103 521720	Shop Supplies			
								CHECK 136772 TOTAL:	1,880.00
136773	07/07/2021	PRTD	6660	MATTRESS FIRM	S035025794	02/22/2021	22100848	070721ap	1,602.12
Invoice: S035025794						Mattresses for Fire Station			
					1,602.12 10002140 522155	Operational Supplies			
								CHECK 136773 TOTAL:	1,602.12
136774	07/07/2021	PRTD	5018	METRO FIRE EQUIPMENT INC	IN00321987	06/15/2021	22101228	070721ap	2,456.60
Invoice: IN00321987						ANNUAL FIRE INSPECTION			
					2,456.60 10003176 520037	Professional Services General			
								CHECK 136774 TOTAL:	2,456.60
136775	07/07/2021	PRTD	5741	MICHAEL WILSON KELLY-ARCHITECTS L	2020.05.03	06/30/2021	22100789	070721ap	4,240.00
Invoice: 2020.05.03						TO #14 BUCKEYE VALLEY MUSEUM DESIGN			
					4,240.00 50214150 543121	Buckeye Vly Museum Facade Reno			
								CHECK 136775 TOTAL:	4,240.00
136776	07/07/2021	PRTD	6243	MICHAELHC, LLC	CoB011	06/23/2021		070721ap	2,960.00
Invoice: CoB011						Lobby window tint - Water Dept.			
					2,960.00 40003230 520037	Professional Services General			
								CHECK 136776 TOTAL:	2,960.00
136777	07/07/2021	PRTD	6243	MICHAELHC, LLC	CoB 1003	06/17/2021	22101202	070721ap	34,000.00
Invoice: CoB 1003						Water Resources Front Counter Tenant Improvements			
					34,000.00 40013220 543024	Water Resources Admin Bldg			
								CHECK 136777 TOTAL:	34,000.00
136778	07/07/2021	PRTD	6839	MITY INC	00132119	06/17/2021	22101053	070721ap	9,288.12
Invoice: 00132119						CHAIRS FOR CS SUNDANCE TI			
					9,288.12 50214150 543056	Sundance Xing Tenant Improveme			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
								CHECK 136778 TOTAL:	9,288.12
136779	07/07/2021	PRTD	1687	MUNICIPAL EMERGENCY SERVICES	IN1593770	06/28/2021	22100196	070721ap	30.65
Invoice: IN1593770					FIRE EQUIPMENT AND SUPPLIES				
				30.65 10002140 522150	Personal Protective Equipment				
				MUNICIPAL EMERGENCY SERVICES	IN1594364	06/29/2021	22100196	070721ap	498.62
Invoice: IN1594364					FIRE EQUIPMENT AND SUPPLIES				
				498.62 10002140 522150	Personal Protective Equipment				
				MUNICIPAL EMERGENCY SERVICES	IN1587481	06/08/2021	22100904	070721ap	8,633.30
Invoice: IN1587481					Repalcement SCBA and bottle for Fire Department				
				8,633.30 31001115 523009	Losses <$5,000				
								CHECK 136779 TOTAL:	9,162.57
136780	07/07/2021	PRTD	5338	OVERDRIVE, INC	03880CO21266369	06/18/2021	22101341	070721ap	17,103.66
Invoice: 03880CO21266369					Open PO for eBooks				
				17,103.66 10004151 521550	Library Materials				
				OVERDRIVE, INC	03880CO21267714	06/21/2021	22101341	070721ap	696.35
Invoice: 03880CO21267714					Open PO for eBooks				
				696.35 10004151 521550	Library Materials				
				OVERDRIVE, INC	03880DA21269480	06/22/2021	22101341	070721ap	64.47
Invoice: 03880DA21269480					Open PO for eBooks				
				64.47 10004151 521550	Library Materials				
				OVERDRIVE, INC	03880DA21270955	06/23/2021	22101341	070721ap	91.96
Invoice: 03880DA21270955					Open PO for eBooks				
				91.96 10004151 521550	Library Materials				
				OVERDRIVE, INC	03880DA21274361	06/28/2021	22101045	070721ap	45.00
Invoice: 03880DA21274361					Open PO for e-Books				
				45.00 10004151 521550	Library Materials				
				OVERDRIVE, INC	03880DA21276211	06/29/2021	22101045	070721ap	411.46
Invoice: 03880DA21276211					Open PO for e-Books				
				411.46 10004151 521550	Library Materials				
								CHECK 136780 TOTAL:	18,412.90
136781	07/07/2021	PRTD	3024	PBC PHOENIX INC	516477	06/30/2021	22100101	070721ap	257.12
Invoice: 516477					FY 20/21 - CUSTODIAL SERVICES				
				257.12 40103200 520019	Custodial Contract (PW)				
				PBC PHOENIX INC	516472	06/30/2021	22100181	070721ap	1,826.10
Invoice: 516472					FY 20/21 - WATER RESOURCES CUS				
				1,826.10 40003210 520019	Custodial Contract (PW)				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136781 TOTAL:	2,083.22
136782	07/07/2021	PRTD	1764	PHOENIX FENCE COMPANY	55871	03/31/2021		070721ap	664.00
	Invoice: 55871					Chain Link repairs			
					664.00 10003172 520514	General Equipment Repairs			
				PHOENIX FENCE COMPANY	55870	03/31/2021		070721ap	494.00
	Invoice: 55870					Chain Link fencing repairs			
					494.00 40103200 520506	Repair and Replace			
				PHOENIX FENCE COMPANY	56158	06/29/2021	22101227	070721ap	10,118.00
	Invoice: 56158					NORTH AIRPORT ARF REPLACEMENT GATE OPERATORS			
					10,118.00 40003216 520506	Repair and Replace			
							CHECK	136782 TOTAL:	11,276.00
136783	07/07/2021	PRTD	1782	INFORMATION OUTSOURCE	UB POSTAGE 06/2021	06/30/2021	22100252	070721ap	20,000.00
	Invoice: UB POSTAGE 06/2021					UTILITY BILLING WATER POSTAGE			
					6,666.67 40003230 521510	Postage and Freight			
					6,666.67 40013230 521510	Postage and Freight			
					6,666.66 40053230 521510	Postage and Freight			
							CHECK	136783 TOTAL:	20,000.00
136784	07/07/2021	PRTD	6389	REXEL USA	S130710672.003	06/08/2021	22100322	070721ap	477.84
	Invoice: S130710672.003					FY 20/21 - STREET LIGHT MAINTE			
					477.84 38103202 520503	Street Lighting O & M			
				REXEL USA	S130709730.001	06/08/2021	22100322	070721ap	5,744.94
	Invoice: S130709730.001					FY 20/21 - STREET LIGHT MAINTE			
					5,744.94 38103202 520503	Street Lighting O & M			
				REXEL USA	S130710672.001	06/08/2021	22100322	070721ap	988.26
	Invoice: S130710672.001					FY 20/21 - STREET LIGHT MAINTE			
					988.26 38103202 520503	Street Lighting O & M			
				REXEL USA	S130710168.001	05/18/2021	22100322	070721ap	2,161.14
	Invoice: S130710168.001					FY 20/21 - STREET LIGHT MAINTE			
					2,161.14 38103202 520503	Street Lighting O & M			
							CHECK	136784 TOTAL:	9,372.18
136785	07/07/2021	PRTD	5194	RICOH USA, INC.	9028928372	06/26/2021	22100885	070721ap	19,282.93
	Invoice: 9028928372					OPEN PO FOR RICOH SERVICES			
					19,282.93 10001189 520020	Mail Service Center			
				RICOH USA, INC.	EDD21060254	06/29/2021	22100381	070721ap	2,640.00

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
Invoice: EDD21060254						OPEN PO FOR OPENAXES			
					2,640.00 10001189 520030	Software Maintenance			
								CHECK 136785 TOTAL:	21,922.93
136786	07/07/2021	PRTD	1842	ROADWAY ELECTRIC LLC	60	06/21/2021	22100157	070721ap	14,893.00
Invoice: 60						Open PO for Streetlight Repair			
					14,893.00 31001115 523009	Losses <$5,000			
				ROADWAY ELECTRIC LLC	59	06/21/2021	22100157	070721ap	5,978.00
Invoice: 59						Open PO for Streetlight Repair			
					5,978.00 31001115 523009	Losses <$5,000			
				ROADWAY ELECTRIC LLC	58	06/21/2021	22100157	070721ap	4,930.00
Invoice: 58						Open PO for Streetlight Repair			
					4,930.00 31001115 523009	Losses <$5,000			
				ROADWAY ELECTRIC LLC	57	06/30/2021		070721ap	4,555.00
Invoice: 57						Streetlight repair			
					4,555.00 31001115 523009	Losses <$5,000			
								CHECK 136786 TOTAL:	30,356.00
136787	07/07/2021	PRTD	1865	SALT RIVER EXTRACTION LLC	31651	06/25/2021	22100065	070721ap	4,021.01
Invoice: 31651						SLUDGE TRANSPORT TO LANDFILL			
					4,021.01 40003218 520585	Treatment Plant O&M			
				SALT RIVER EXTRACTION LLC	31652	06/24/2021	22100065	070721ap	2,877.60
Invoice: 31652						SLUDGE TRANSPORT TO LANDFILL			
					2,877.60 40003218 520585	Treatment Plant O&M			
								CHECK 136787 TOTAL:	6,898.61
136788	07/07/2021	PRTD	1858	SHI INTERNATIONAL CORP	B13398000	04/29/2021	22101156	070721ap	4,560.27
Invoice: B13398000						6 BLUEBEAM and 2 ACROBAT PRO LICENSES			
					4,560.27 10005185 520030	Software Maintenance			
								CHECK 136788 TOTAL:	4,560.27
136789	07/07/2021	PRTD	5436	SKAGGS COMPANIES INC	290_A_71817_2	06/04/2021	22100295	070721ap	53.07
Invoice: 290_A_71817_2						Station Uniforms			
					53.07 10002140 521922	Uniforms			
				SKAGGS COMPANIES INC	290_A_70473_2	06/10/2021	22100295	070721ap	46.57
Invoice: 290_A_70473_2						Station Uniforms			
					46.57 10002140 521922	Uniforms			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
							CHECK	136789 TOTAL:	99.64
136790	07/07/2021	PRTD	3089	SOMERSET LANDSCAPE LLC	PHXW 236424	06/30/2021	22100307	070721ap	6,020.79
Invoice: PHXW 236424						LANDSCAPE SERVICES FOR PRODUCT			
					650.51 40003212 520035	Landscaping			
					1,339.82 40003213 520035	Landscaping			
					887.69 40003214 520035	Landscaping			
					686.20 40003215 520035	Landscaping			
					712.34 40003216 520035	Landscaping			
					309.22 40003217 520035	Landscaping			
					1,435.01 40003218 520035	Landscaping			
							CHECK	136790 TOTAL:	6,020.79
136791	07/07/2021	PRTD	1944	STANDARD PRINTING COMPANY INC	263436	06/30/2021	22100185	070721ap	3,943.73
Invoice: 263436						PRINT AND MAIL SERVICES FOR UT			
					690.19 40003230 520037	Professional Services General			
					690.19 40013230 520037	Professional Services General			
					1,174.37 40053205 523021	Public Education			
					1,388.98 40053230 520037	Professional Services General			
				STANDARD PRINTING COMPANY INC	263491	06/24/2021	22100185	070721ap	911.60
Invoice: 263491						PRINT AND MAIL SERVICES FOR UT			
					291.71 40003230 520037	Professional Services General			
					291.71 40013230 520037	Professional Services General			
					328.18 40053230 520037	Professional Services General			
							CHECK	136791 TOTAL:	4,855.33
136792	07/07/2021	PRTD	5971	STANLEY CONSULTANTS, INC.	231855	06/26/2021	22001161	070721ap	43,518.35
Invoice: 231855						TO #2 CO #3 - CONSTRUCTION PHA			
					43,518.35 40013220 543043	N.Miller Rd Trunk Sewer			
							CHECK	136792 TOTAL:	43,518.35
136793	07/07/2021	PRTD	6622	SUNRISE ENGINEERING INC	0118370	06/30/2021	22100585	070721ap	16,770.00
Invoice: 0118370						ENGINEERING SERVICES, PROFESSI			
					16,770.00 10005185 520006	Engineering Services			
							CHECK	136793 TOTAL:	16,770.00
136794	07/07/2021	PRTD	1995	THE ARIZONA REPUBLIC	0003946332	06/30/2021	22100050	070721ap	2,119.68
Invoice: 0003946332						Open PO AZ Republic for FY 20-			
					2,119.68 10001102 523055	Legal Printing and Advertising			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136794 TOTAL:	2,119.68
136795	07/07/2021	PRTD	6684	INNOVATIVE UAS	6008	05/27/2021	22101329	070721ap	36,142.08
	Invoice: 6008					DRONE - PD			
					36,142.08 10002121 541070	Other Equipment >$5,000			
				INNOVATIVE UAS	6007	05/27/2021	22101326	070721ap	2,651.77
	Invoice: 6007					Drone Batteries/Equipment			
					2,651.77 10002121 522155	Operational Supplies			
							CHECK	136795 TOTAL:	38,793.85
136796	07/07/2021	PRTD	2035	UNIFIRST CORPORATION	3152404526	06/23/2021	22100040	070721ap	9.47
	Invoice: 3152404526					OPEN PO- Kitchen towels & apro			
					9.47 35754150 523017	Space			
							CHECK	136796 TOTAL:	9.47
136797	07/07/2021	PRTD	5660	VERTECH INDUSTRIAL SYSTEMS, LLC	P200251.00-10579	06/15/2021		070721ap	18,270.25
	Invoice: P200251.00-10579					Inv for Central Plant Upgrades PO 2210044			
					18,270.25 40011113 543091	Central WRF SCADA Improvements			
							CHECK	136797 TOTAL:	18,270.25
136798	07/07/2021	PRTD	5425	VORTEX INDUSTRIES	20-1513959	06/18/2021	22100388	070721ap	3,780.12
	Invoice: 20-1513959					FY 20/21 - CITYWIDE DOOR MAINT			
					3,000.00 10003172 520514	General Equipment Repairs			
					780.12 10003172 520525	Hardware Maintenance			
				VORTEX INDUSTRIES	20-1514366	06/30/2021	22100388	070721ap	605.12
	Invoice: 20-1514366					FY 20/21 - CITYWIDE DOOR MAINT			
					605.12 10003172 520525	Hardware Maintenance			
							CHECK	136798 TOTAL:	4,385.24
136799	07/07/2021	PRTD	6340	WILSON ENGINEERS	7224	06/24/2021	22100909	070721ap	6,560.00
	Invoice: 7224					Engineering Specialty Review			
					6,560.00 10005185 520006	Engineering Services			
							CHECK	136799 TOTAL:	6,560.00

NUMBER OF CHECKS 65 *** CASH ACCOUNT TOTAL *** 607,449.06

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	65	607,449.06

*** GRAND TOTAL *** 607,449.06

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL / SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2022 1 126									
APP 1000-201000					Accounts Payable			256,848.71	
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				607,449.06
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
APP 4000-201000					Accounts Payable			118,850.09	
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
APP 4001-201000					Accounts Payable			120,909.17	
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
APP 3575-201000					Accounts Payable			2,771.90	
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
APP 3058-201000					Accounts Payable			2,750.00	
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
APP 3810-201000					Accounts Payable			9,594.97	
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
APP 3577-201000					Accounts Payable			4,615.35	
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
APP 5021-201000					Accounts Payable			41,646.31	
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
APP 5001-201000					Accounts Payable			163.95	
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
APP 3100-201000					Accounts Payable			38,989.30	
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
APP 4010-201000					Accounts Payable			751.12	
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
APP 4005-201000					Accounts Payable			9,558.19	
07/07/2021	070721ap	ap0707			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			607,449.06	607,449.06
APP 9999-201010					DT DF			607,449.06	
07/07/2021	070721ap	ap0707							
APP 1000-101010					Pooled Cash Equity				256,848.71
07/07/2021	070721ap	ap0707							
APP 4000-101010					Pooled Cash Equity				118,850.09
07/07/2021	070721ap	ap0707							
APP 4001-101010					Pooled Cash Equity				120,909.17
07/07/2021	070721ap	ap0707							
APP 3575-101010					Pooled Cash Equity				2,771.90
07/07/2021	070721ap	ap0707							
APP 3058-101010					Pooled Cash Equity				2,750.00
07/07/2021	070721ap	ap0707							
APP 3810-101010					Pooled Cash Equity				9,594.97
07/07/2021	070721ap	ap0707							
APP 3577-101010					Pooled Cash Equity				4,615.35
07/07/2021	070721ap	ap0707							
APP 5021-101010					Pooled Cash Equity				41,646.31

JOURNAL ENTRIES TO BE CREATED

YEAR PER JNL SRC ACCOUNT	EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
	07/07/2021	070721ap	ap0707							
APP 5001-101010						Pooled Cash Equity				163.95
	07/07/2021	070721ap	ap0707							
APP 3100-101010						Pooled Cash Equity				38,989.30
	07/07/2021	070721ap	ap0707							
APP 4010-101010						Pooled Cash Equity				751.12
	07/07/2021	070721ap	ap0707							
APP 4005-101010						Pooled Cash Equity				9,558.19
	07/07/2021	070721ap	ap0707							
						SYSTEM GENERATED ENTRIES TOTAL			607,449.06	607,449.06
						JOURNAL 2022/01/126 TOTAL			1,214,898.12	1,214,898.12

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR	PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2022	1	126	07/07/2021			
1000-101010				Pooled Cash Equity			256,848.71
1000-201000				Accounts Payable		256,848.71	
					FUND TOTAL	256,848.71	256,848.71
3058 Comm Services Programs	2022	1	126	07/07/2021			
3058-101010				Pooled Cash Equity			2,750.00
3058-201000				Accounts Payable		2,750.00	
					FUND TOTAL	2,750.00	2,750.00
3100 Risk Mgmt Retention Fund	2022	1	126	07/07/2021			
3100-101010				Pooled Cash Equity			38,989.30
3100-201000				Accounts Payable		38,989.30	
					FUND TOTAL	38,989.30	38,989.30
3575 Area Agency on Aging	2022	1	126	07/07/2021			
3575-101010				Pooled Cash Equity			2,771.90
3575-201000				Accounts Payable		2,771.90	
					FUND TOTAL	2,771.90	2,771.90
3577 Nuclear Emergency Management	2022	1	126	07/07/2021			
3577-101010				Pooled Cash Equity			4,615.35
3577-201000				Accounts Payable		4,615.35	
					FUND TOTAL	4,615.35	4,615.35
3810 Highway User Revenue Fund	2022	1	126	07/07/2021			
3810-101010				Pooled Cash Equity			9,594.97
3810-201000				Accounts Payable		9,594.97	
					FUND TOTAL	9,594.97	9,594.97
4000 Water Utility Fund	2022	1	126	07/07/2021			
4000-101010				Pooled Cash Equity			118,850.09
4000-201000				Accounts Payable		118,850.09	
					FUND TOTAL	118,850.09	118,850.09
4001 Wastewater Fund	2022	1	126	07/07/2021			
4001-101010				Pooled Cash Equity			120,909.17
4001-201000				Accounts Payable		120,909.17	
					FUND TOTAL	120,909.17	120,909.17
4005 Environmental Services	2022	1	126	07/07/2021			

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR	PER	JNL	EFF DATE	ACCOUNT DESCRIPTION		DEBIT	CREDIT
4005-101010					Pooled Cash Equity			9,558.19
4005-201000					Accounts Payable		9,558.19	
						FUND TOTAL	9,558.19	9,558.19
4010 Airport Fund	2022	1	126	07/07/2021				
4010-101010					Pooled Cash Equity			751.12
4010-201000					Accounts Payable		751.12	
						FUND TOTAL	751.12	751.12
5001 Cemetery Improvement Fund	2022	1	126	07/07/2021				
5001-101010					Pooled Cash Equity			163.95
5001-201000					Accounts Payable		163.95	
						FUND TOTAL	163.95	163.95
5021 CIP General	2022	1	126	07/07/2021				
5021-101010					Pooled Cash Equity			41,646.31
5021-201000					Accounts Payable		41,646.31	
						FUND TOTAL	41,646.31	41,646.31
9999 Pooled Cash	2022	1	126	07/07/2021				
9999-104000					Cash in Bank - Checking			607,449.06
9999-201010					DT DF		607,449.06	
						FUND TOTAL	607,449.06	607,449.06

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
1000	General Fund		256,848.71
3058	Comm Services Programs		2,750.00
3100	Risk Mgmt Retention Fund		38,989.30
3575	Area Agency on Aging		2,771.90
3577	Nuclear Emergency Management		4,615.35
3810	Highway User Revenue Fund		9,594.97
4000	Water Utility Fund		118,850.09
4001	Wastewater Fund		120,909.17
4005	Environmental Services		9,558.19
4010	Airport Fund		751.12
5001	Cemetery Improvement Fund		163.95
5021	CIP General		41,646.31
9999	Pooled Cash	607,449.06	
	TOTAL	607,449.06	607,449.06

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136847	07/14/2021	PRTD	5566	ACRO SERVICE CORPORATION	1356423	06/27/2021	22100149	071421ap	119.80
Invoice: 1356423						Open PO - Temp. Dispatchers			
					119.80 10002121 520012	Contract Labor			
				ACRO SERVICE CORPORATION	1356426	06/27/2021	22100149	071421ap	228.72
Invoice: 1356426						Open PO - Temp. Dispatchers			
					228.72 10002121 520012	Contract Labor			
						CHECK 136847 TOTAL:			348.52
136848	07/14/2021	PRTD	1960	ARIZONA MACHINERY, LLC	P51945	06/29/2021	22100366	071421ap	71.73
Invoice: P51945						AUTOMOTIVE AND TRAILER EQUIPME			
					71.73 38103202 521508	Automotive Expenses			
				ARIZONA MACHINERY, LLC	P51961	06/29/2021	22100366	071421ap	123.66
Invoice: P51961						AUTOMOTIVE AND TRAILER EQUIPME			
					123.66 38103202 521508	Automotive Expenses			
				ARIZONA MACHINERY, LLC	P51962	06/29/2021	22100366	071421ap	22.68
Invoice: P51962						AUTOMOTIVE AND TRAILER EQUIPME			
					22.68 38103202 521508	Automotive Expenses			
						CHECK 136848 TOTAL:			218.07
136849	07/14/2021	PRTD	1193	BAKER & TAYLOR	144204	06/30/2021	22100876	071421ap	40.00
Invoice: 144204						Open PO for Library Materials			
					40.00 10004151 521550	Library Materials			
						CHECK 136849 TOTAL:			40.00
136850	07/14/2021	PRTD	5696	BROWN AND ASSOCIATES	36073	06/30/2021	22100005	071421ap	14,040.00
Invoice: 36073						OPEN POF FOR CONSULTING SERVIC			
					8,100.00 10005180 520056	Inspection Services			
					5,940.00 10005180 520056	Inspection Services			
						CHECK 136850 TOTAL:			14,040.00
136851	07/14/2021	PRTD	1274	CALVERT OIL COMPANY	149213	06/30/2021		071421ap	12,359.44
Invoice: 149213						SULFER DIESEL			
					6,500.00 40003213 520515	Generator R & M			
					4,109.44 40003215 520515	Generator R & M			
					1,750.00 40003215 520515	Generator R & M			
				CALVERT OIL COMPANY	149180	06/30/2021		071421ap	755.48
Invoice: 149180						DIESEL			
					755.48 40003213 520515	Generator R & M			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136851 TOTAL:	13,114.92
136852	07/14/2021	PRTD	6819	CS CONSTRUCTION, INC.	16159	06/30/2021		071421ap	16,860.00
	Invoice: 16159					Pay App #4, final			
				16,860.00	40001113 543128	9 Monopoles			
							CHECK	136852 TOTAL:	16,860.00
136853	07/14/2021	PRTD	6721	DCS MANAGMENT, LLC	68142	06/30/2021	22100864	071421ap	220.00
	Invoice: 68142					DCS COURIER SERVICES WASTEWATER			
				220.00	40013221 520049	Laboratory Fees			
							CHECK	136853 TOTAL:	220.00
136854	07/14/2021	PRTD	1573	DEERE & COMPANY	117134543	06/22/2021	22101302	071421ap	11,289.42
	Invoice: 117134543					JOHN DEERE GATOR FOR WATER TREATMENT FACILITY			
				11,289.42	40003210 541210	Automobiles			
							CHECK	136854 TOTAL:	11,289.42
136855	07/14/2021	PRTD	1374	DIVERSIFIED INSPECTIONS	INDI39551	06/30/2021	22100194	071421ap	800.00
	Invoice: INDI39551					Ladder Inspections			
				800.00	10002140 520518	Equip Testing & Certification			
							CHECK	136855 TOTAL:	800.00
136856	07/14/2021	PRTD	5676	FIRESTATS, LLC	BUC 2021 Q2	06/23/2021	22100270	071421ap	2,700.00
	Invoice: BUC 2021 Q2					Analytic Software			
				2,700.00	10002140 526121	On-line Subscriptions			
							CHECK	136856 TOTAL:	2,700.00
136857	07/14/2021	PRTD	6795	FIRST LEGAL NETWORK, LLC	27002088	06/30/2021	22100881	071421ap	840.00
	Invoice: 27002088					Open PO for Order Service			
				840.00	10002121 520037	Professional Services General			
							CHECK	136857 TOTAL:	840.00
136858	07/14/2021	PRTD	5537	HAZEN AND SAWYER	20114-013-2	02/09/2021		071421ap	3,840.00
	Invoice: 20114-013-2					North East Lift Station partial payment of invoice			
				3,840.00	40013220 520006	Engineering Services			
				HAZEN AND SAWYER	221008604	04/20/2012		071421ap	1,094.50
	Invoice: 221008604					TO #11 PO 22100860			
				1,094.50	40001113 543126	Repair & Recoat Reservoirs			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
							CHECK	136858 TOTAL:	4,934.50
136859	07/14/2021	PRTD	5175	J2 ENGINEERING AND ENVIRONMENTAL	13073	06/30/2021	22000990	071421ap	56,479.71
	Invoice: 13073					SUNDANCE PARK PHASE II ENVIRON			
				56,479.71 50214150 543055		Sundance Park Ph II			
							CHECK	136859 TOTAL:	56,479.71
136860	07/14/2021	PRTD	1589	KRONOS INCORPORATED	11781677	06/29/2021	22100931	071421ap	1,305.00
	Invoice: 11781677					KRONOS CONTRACTUAL SERVICES MIGRATION			
				1,305.00 10001189 520018		General Contractual Services			
				KRONOS INCORPORATED	11782481	06/30/2021	22100931	071421ap	3,240.00
	Invoice: 11782481					KRONOS CONTRACTUAL SERVICES MIGRATION			
				3,240.00 10001189 520018		General Contractual Services			
				KRONOS INCORPORATED	11781734	06/29/2021	22100931	071421ap	1,305.00
	Invoice: 11781734					KRONOS CONTRACTUAL SERVICES MIGRATION			
				1,305.00 10001189 520018		General Contractual Services			
				KRONOS INCORPORATED	11782480	06/30/2021	22100931	071421ap	3,240.00
	Invoice: 11782480					KRONOS CONTRACTUAL SERVICES MIGRATION			
				3,240.00 10001189 520018		General Contractual Services			
							CHECK	136860 TOTAL:	9,090.00
136861	07/14/2021	PRTD	5205	LEATHAM FAMILY, LLC	0302305	06/07/2021	22100203	071421ap	2,771.67
	Invoice: 0302305					Challenge Coins			
				2,771.67 10002140 523026		Marketing Expense			
							CHECK	136861 TOTAL:	2,771.67
136862	07/14/2021	PRTD	6701	LEXISNEXIS COPLOGIC SOLUTIONS INC	808169-20210630	06/30/2021	22100418	071421ap	1,437.30
	Invoice: 808169-20210630					Subscription - Coplogic			
				1,437.30 10002121 526121		On-line Subscriptions			
							CHECK	136862 TOTAL:	1,437.30
136863	07/14/2021	PRTD	1625	LOWE'S COMPANIES, INC	2970384	05/25/2021		071421ap	347.76
	Invoice: 2970384					Supplies for Charman Building CIP2020023			
				347.76 50211000 543082		Charman Bldg Space Plan			
							CHECK	136863 TOTAL:	347.76

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136864	07/14/2021	PRTD	1684	MOTOROLA SOLUTIONS, INC	8330196532	06/29/2021	22100382	071421ap	10,125.00
Invoice: 8330196532					Radio Programming and Repair				
				10,125.00 10002140 520518	Equip Testing & Certification				
							CHECK	136864 TOTAL:	10,125.00
136865	07/14/2021	PRTD	1686	MUNICIPAL CODE CORPORATION	00360684	06/30/2021	22100013	071421ap	287.00
Invoice: 00360684					Open PO for Municode FY 20-21				
				287.00 10001102 523055	Legal Printing and Advertising				
							CHECK	136865 TOTAL:	287.00
136866	07/14/2021	PRTD	6451	NESTLE WATERS NORTH AMERICA	01G6700439637	06/30/2021	22100367	071421ap	62.05
Invoice: 01G6700439637					Nestle Bottled Water				
				62.05 10002120 521501	Office Supplies				
				NESTLE WATERS NORTH AMERICA	01G6700439645	06/30/2021	22100369	071421ap	362.17
Invoice: 01G6700439645					COOLERS, DRINKING WATER (WATER				
				362.17 10005180 521501	Office Supplies				
							CHECK	136866 TOTAL:	424.22
136867	07/14/2021	PRTD	1847	RODEO FORD INC	152549	06/29/2021	22100433	071421ap	172.26
Invoice: 152549					AUTOMOTIVE AND TRAILER EQUIPME				
				172.26 38103202 521508	Automotive Expenses				
							CHECK	136867 TOTAL:	172.26
136868	07/14/2021	PRTD	1869	SAN TAN FORD	F211052	06/29/2021	22100861	071421ap	36,231.20
Invoice: F211052					TRUCKS (INCLUDING, DIESEL, GASOLINE, ELECTRIC, HYB				
				36,231.20 10005180 541210	Automobiles				
							CHECK	136868 TOTAL:	36,231.20
136869	07/14/2021	PRTD	5324	SHUMS CODA ASSOCIATES	6501	06/30/2021	22100004	071421ap	475.00
Invoice: 6501					OPEN PO FOR CONSULTING SERVICE				
				475.00 10005180 520056	Inspection Services				
				SHUMS CODA ASSOCIATES	6502	06/30/2021	22100004	071421ap	9,202.50
Invoice: 6502					OPEN PO FOR CONSULTING SERVICE				
				9,202.50 10005180 520056	Inspection Services				
				SHUMS CODA ASSOCIATES	6503	06/30/2021	22100004	071421ap	10,470.00
Invoice: 6503					OPEN PO FOR CONSULTING SERVICE				
				10,470.00 10005180 520056	Inspection Services				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
				SHUMS CODA ASSOCIATES	6504	06/30/2021	22100004	071421ap	4,987.50
Invoice: 6504					OPEN PO FOR CONSULTING SERVICE				
				4,987.50	10005180 520056 Inspection Services				
				SHUMS CODA ASSOCIATES	6505	06/30/2021	22100004	071421ap	12,477.50
Invoice: 6505					OPEN PO FOR CONSULTING SERVICE				
				12,477.50	10005180 520056 Inspection Services				
				SHUMS CODA ASSOCIATES	6506	06/30/2021	22100004	071421ap	10,150.00
Invoice: 6506					OPEN PO FOR CONSULTING SERVICE				
				10,150.00	10005180 520056 Inspection Services				
				SHUMS CODA ASSOCIATES	6507	06/30/2021	22100004	071421ap	14,650.00
Invoice: 6507					OPEN PO FOR CONSULTING SERVICE				
				14,650.00	10005180 520056 Inspection Services				
				SHUMS CODA ASSOCIATES	6508	06/30/2021	22100004	071421ap	35,135.18
Invoice: 6508					OPEN PO FOR CONSULTING SERVICE				
				35,135.18	10005180 520056 Inspection Services				
							CHECK	136869 TOTAL:	97,547.68
136870	07/14/2021	PRTD	5436	SKAGGS COMPANIES INC	290_A_68801_4	06/03/2021	22100295	071421ap	94.22
Invoice: 290_A_68801_4					Station Uniforms				
				94.22	10002140 521922 Uniforms				
				SKAGGS COMPANIES INC	290_A_70615_1	06/04/2021	22100295	071421ap	107.22
Invoice: 290_A_70615_1					Station Uniforms				
				107.22	10002140 521922 Uniforms				
							CHECK	136870 TOTAL:	201.44
136871	07/14/2021	PRTD	6161	SOUTHERN TIRE MART, LLC	6130047784	06/29/2021	22100395	071421ap	445.44
Invoice: 6130047784					TIRES AND TUBES (INCL. RECAPPE				
				445.44	10003171 521528 Tires				
							CHECK	136871 TOTAL:	445.44
136872	07/14/2021	PRTD	1704	NATIONAL HAZARD CONTROL	2085	06/29/2021	22100657	071421ap	287.78
Invoice: 2085					Crime Scene Cleanup OPEN PO				
				287.78	10002121 520005 Crime Scene Clean-Up				
							CHECK	136872 TOTAL:	287.78
136873	07/14/2021	PRTD	6095	VARGYAS NETWORKS, INC	1000234776	06/30/2021	22101265	071421ap	6,619.17
Invoice: 1000234776					RADIO EQUIPMENT				
				6,619.17	40001113 543128 9 Monopoles				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
				VARGYAS NETWORKS, INC	1000234777	06/30/2021	22101265	071421ap	6,619.17
	Invoice: 1000234777					RADIO EQUIPMENT			
				6,619.17	40001113 543128	9 Monopoles			
				VARGYAS NETWORKS, INC	1000234779	06/30/2021	22101265	071421ap	12,499.31
	Invoice: 1000234779					RADIO EQUIPMENT			
				12,499.31	40001113 543128	9 Monopoles			
						CHECK	136873 TOTAL:		25,737.65
136874	07/14/2021	PRTD	6849	VEHICLE SERVICE GROUP, LLC.	27290	06/28/2021	22101270	071421ap	21,326.91
	Invoice: 27290					AUTOMOTIVE SHOP AND RELATED EQUIPMENT AND SUPPLIES			
				21,326.91	10003171 541070	Other Equipment >$5,000			
						CHECK	136874 TOTAL:		21,326.91
136875	07/14/2021	PRTD	2061	VERN LEWIS WELDING SUPPLY INC	AR 33242	06/28/2021	22100206	071421ap	215.26
	Invoice: AR 33242					Medical Oxygen and Rental			
				215.26	10002140 522153	Medical Supplies			
				VERN LEWIS WELDING SUPPLY INC	RI21060196	06/30/2021	22100206	071421ap	108.52
	Invoice: RI21060196					Medical Oxygen and Rental			
				108.52	10002140 522153	Medical Supplies			
				VERN LEWIS WELDING SUPPLY INC	RI21060197	06/30/2021	22100206	071421ap	44.06
	Invoice: RI21060197					Medical Oxygen and Rental			
				44.06	10002140 522153	Medical Supplies			
						CHECK	136875 TOTAL:		367.84
136876	07/14/2021	PRTD	6384	VIASUN CORPORATION	212009-2	06/30/2021		071421ap	318,386.33
	Invoice: 212009-2					Crack Seal District #4			
				318,386.33	50203170 520601	Pavement Maintenance			
						CHECK	136876 TOTAL:		318,386.33
136877	07/14/2021	PRTD	6158	VOIANCE LANGUAGE SERVICES, LLC	1347386	06/30/2021	22100084	071421ap	33.11
	Invoice: 1347386					Open PO - Translation Assistan			
				33.11	10002121 520052	Specialized/Comp Rel Services			
						CHECK	136877 TOTAL:		33.11

NUMBER OF CHECKS 31 *** CASH ACCOUNT TOTAL *** 647,105.73

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	31	647,105.73

*** GRAND TOTAL *** 647,105.73

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL / SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2022 1 344									
APP 1000-201000					Accounts Payable			199,345.11	
07/14/2021	071421ap	ap0714			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				647,105.73
07/14/2021	071421ap	ap0714			AP CASH DISBURSEMENTS JOURNAL				
APP 3810-201000					Accounts Payable			390.33	
07/14/2021	071421ap	ap0714			AP CASH DISBURSEMENTS JOURNAL				
APP 4000-201000					Accounts Payable			68,096.49	
07/14/2021	071421ap	ap0714			AP CASH DISBURSEMENTS JOURNAL				
APP 4001-201000					Accounts Payable			4,060.00	
07/14/2021	071421ap	ap0714			AP CASH DISBURSEMENTS JOURNAL				
APP 5021-201000					Accounts Payable			56,827.47	
07/14/2021	071421ap	ap0714			AP CASH DISBURSEMENTS JOURNAL				
APP 5020-201000					Accounts Payable			318,386.33	
07/14/2021	071421ap	ap0714			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			647,105.73	647,105.73
APP 9999-201010					DT DF			647,105.73	
07/14/2021	071421ap	ap0714							
APP 1000-101010					Pooled Cash Equity				199,345.11
07/14/2021	071421ap	ap0714							
APP 3810-101010					Pooled Cash Equity				390.33
07/14/2021	071421ap	ap0714							
APP 4000-101010					Pooled Cash Equity				68,096.49
07/14/2021	071421ap	ap0714							
APP 4001-101010					Pooled Cash Equity				4,060.00
07/14/2021	071421ap	ap0714							
APP 5021-101010					Pooled Cash Equity				56,827.47
07/14/2021	071421ap	ap0714							
APP 5020-101010					Pooled Cash Equity				318,386.33
07/14/2021	071421ap	ap0714							
					SYSTEM GENERATED ENTRIES TOTAL			647,105.73	647,105.73
					JOURNAL 2022/01/344 TOTAL			1,294,211.46	1,294,211.46

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR	PER	JNL	EFF DATE	ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2022	1	344	07/14/2021				
1000-101010					Pooled Cash Equity			199,345.11
1000-201000					Accounts Payable		199,345.11	
						FUND TOTAL	199,345.11	199,345.11
3810 Highway User Revenue Fund	2022	1	344	07/14/2021				
3810-101010					Pooled Cash Equity			390.33
3810-201000					Accounts Payable		390.33	
						FUND TOTAL	390.33	390.33
4000 Water Utility Fund	2022	1	344	07/14/2021				
4000-101010					Pooled Cash Equity			68,096.49
4000-201000					Accounts Payable		68,096.49	
						FUND TOTAL	68,096.49	68,096.49
4001 Wastewater Fund	2022	1	344	07/14/2021				
4001-101010					Pooled Cash Equity			4,060.00
4001-201000					Accounts Payable		4,060.00	
						FUND TOTAL	4,060.00	4,060.00
5020 Roadway Construction	2022	1	344	07/14/2021				
5020-101010					Pooled Cash Equity			318,386.33
5020-201000					Accounts Payable		318,386.33	
						FUND TOTAL	318,386.33	318,386.33
5021 CIP General	2022	1	344	07/14/2021				
5021-101010					Pooled Cash Equity			56,827.47
5021-201000					Accounts Payable		56,827.47	
						FUND TOTAL	56,827.47	56,827.47
9999 Pooled Cash	2022	1	344	07/14/2021				
9999-104000					Cash in Bank - Checking			647,105.73
9999-201010					DT DF		647,105.73	
						FUND TOTAL	647,105.73	647,105.73

JOURNAL ENTRIES TO BE CREATED

FUND	DUE TO	DUE FR
1000 General Fund		199,345.11
3810 Highway User Revenue Fund		390.33
4000 Water Utility Fund		68,096.49
4001 Wastewater Fund		4,060.00
5020 Roadway Construction		318,386.33
5021 CIP General		56,827.47
9999 Pooled Cash	647,105.73	
TOTAL	647,105.73	647,105.73

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136731	07/07/2021	PRTD	5760	ARIZONA POWER AUTHORITY	OY2021-0641	06/30/2021		070721r	4,059.78
Invoice: OY2021-0641						power at sundance wrf			
				4,059.78 40013222 526010		Electric - Utility			
							CHECK	136731 TOTAL:	4,059.78
136732	07/07/2021	PRTD	1137	ARIZONA WATER COMPANY	July 2021.	06/30/2021		070721r	267.46
Invoice: July 2021.						Acct#0442871059-1			
				267.46 40013225 526018		Water/Wastewater - Utility			
							CHECK	136732 TOTAL:	267.46
136733	07/07/2021	PRTD	6052	CITY OF BUCKEYE	Cycle4 June 2021	06/30/2021		070721r	24,806.10
Invoice: Cycle4 June 2021						UB Cycle 4			
				511.71 40003210 526018		Water/Wastewater - Utility			
				43.34 40003213 520585		Treatment Plant O&M			
				630.67 40013221 526018		Water/Wastewater - Utility			
				1,229.85 40013222 526018		Water/Wastewater - Utility			
				1,727.53 38103202 526022		Water for Street Sweeper			
				499.84 35754150 523017		Space			
				18,009.20 10001110 526018		Water/Wastewater - Utility			
				615.24 10003177 526018		Water/Wastewater - Utility			
				1,013.07 10003174 526018		Water/Wastewater - Utility			
				525.65 10003175 526018		Water/Wastewater - Utility			
							CHECK	136733 TOTAL:	24,806.10
136734	07/07/2021	PRTD	1589	KRONOS INCORPORATED	11780030	06/30/2021		070721r	131.82
Invoice: 11780030						TELESTAFF FIRE SERVICE 341			
				131.82 10001189 520032		Telecom Services			
				KRONOS INCORPORATED	11780029	06/30/2021		070721r	49.84
Invoice: 11780029						TELESTAFF POLICE SERVICE 343			
				49.84 10001189 520032		Telecom Services			
							CHECK	136734 TOTAL:	181.66

NUMBER OF CHECKS 4 *** CASH ACCOUNT TOTAL *** 29,315.00

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	4	29,315.00

*** GRAND TOTAL *** 29,315.00

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL / SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2022 1 107									
APP 4001-201000					Accounts Payable			6,187.76	
07/07/2021	070721r	r07072			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				29,315.00
07/07/2021	070721r	r07072			AP CASH DISBURSEMENTS JOURNAL				
APP 4000-201000					Accounts Payable			555.05	
07/07/2021	070721r	r07072			AP CASH DISBURSEMENTS JOURNAL				
APP 3810-201000					Accounts Payable			1,727.53	
07/07/2021	070721r	r07072			AP CASH DISBURSEMENTS JOURNAL				
APP 3575-201000					Accounts Payable			499.84	
07/07/2021	070721r	r07072			AP CASH DISBURSEMENTS JOURNAL				
APP 1000-201000					Accounts Payable			20,344.82	
07/07/2021	070721r	r07072			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			29,315.00	29,315.00
APP 9999-201010					DT DF			29,315.00	
07/07/2021	070721r	r07072							
APP 4001-101010					Pooled Cash Equity				6,187.76
07/07/2021	070721r	r07072							
APP 4000-101010					Pooled Cash Equity				555.05
07/07/2021	070721r	r07072							
APP 3810-101010					Pooled Cash Equity				1,727.53
07/07/2021	070721r	r07072							
APP 3575-101010					Pooled Cash Equity				499.84
07/07/2021	070721r	r07072							
APP 1000-101010					Pooled Cash Equity				20,344.82
07/07/2021	070721r	r07072							
					SYSTEM GENERATED ENTRIES TOTAL			29,315.00	29,315.00
					JOURNAL 2022/01/107 TOTAL			58,630.00	58,630.00

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR	PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2022	1	107	07/07/2021			
1000-101010				Pooled Cash Equity			20,344.82
1000-201000				Accounts Payable		20,344.82	
					FUND TOTAL	20,344.82	20,344.82
3575 Area Agency on Aging	2022	1	107	07/07/2021			
3575-101010				Pooled Cash Equity			499.84
3575-201000				Accounts Payable		499.84	
					FUND TOTAL	499.84	499.84
3810 Highway User Revenue Fund	2022	1	107	07/07/2021			
3810-101010				Pooled Cash Equity			1,727.53
3810-201000				Accounts Payable		1,727.53	
					FUND TOTAL	1,727.53	1,727.53
4000 Water Utility Fund	2022	1	107	07/07/2021			
4000-101010				Pooled Cash Equity			555.05
4000-201000				Accounts Payable		555.05	
					FUND TOTAL	555.05	555.05
4001 Wastewater Fund	2022	1	107	07/07/2021			
4001-101010				Pooled Cash Equity			6,187.76
4001-201000				Accounts Payable		6,187.76	
					FUND TOTAL	6,187.76	6,187.76
9999 Pooled Cash	2022	1	107	07/07/2021			
9999-104000				Cash in Bank - Checking			29,315.00
9999-201010				DT DF		29,315.00	
					FUND TOTAL	29,315.00	29,315.00

JOURNAL ENTRIES TO BE CREATED

FUND	DUE TO	DUE FR
1000 General Fund		20,344.82
3575 Area Agency on Aging		499.84
3810 Highway User Revenue Fund		1,727.53
4000 Water Utility Fund		555.05
4001 Wastewater Fund		6,187.76
9999 Pooled Cash	29,315.00	
TOTAL	29,315.00	29,315.00

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136835	07/14/2021	PRTD	1064	AFLAC	209922	06/30/2021		071421r	5,522.32
Invoice: 209922						supplemental insurance			
				5,522.32 1030 216700		AFLAC			
						CHECK	136835	TOTAL:	5,522.32
136836	07/14/2021	PRTD	1137	ARIZONA WATER COMPANY	June 20211	06/30/2021		071421r	642.63
Invoice: June 20211						water - sewer -park n ride			
				642.63 10001110 526018		Water/Wastewater - Utility			
						CHECK	136836	TOTAL:	642.63
136837	07/14/2021	PRTD	6620	AT&T MOBILITY	18129343	06/30/2021		071421r	522.84
Invoice: 18129343						Foundation acct#BES57755295			
				402.12 10002121 526025		Telephone			
				40.24 40003210 526025		Telephone			
				80.48 10002140 526025		Telephone			
						CHECK	136837	TOTAL:	522.84
136838	07/14/2021	PRTD	6048	CENTURYLINK COMMUNICATIONS, LLC	234377672	06/30/2021		071421r	12.96
Invoice: 234377672						acct# 77579877			
				12.96 10001189 520032		Telecom Services			
						CHECK	136838	TOTAL:	12.96
136839	07/14/2021	PRTD	1318	COLONIAL SUPPLEMENTAL INS.	8598559-0612108	06/30/2021		071421r	1,137.06
Invoice: 8598559-0612108						insurance			
				1,137.06 1030 216800		Colonial Insurance			
						CHECK	136839	TOTAL:	1,137.06
136840	07/14/2021	PRTD	6434	FLEXIBLE BENEFIT ADMINISTRATORS,	June 2021	06/30/2021		071421r	687.00
Invoice: June 2021						Employee Flex Beneift			
				687.00 10001115 520037		Professional Services General			
						CHECK	136840	TOTAL:	687.00
136841	07/14/2021	PRTD	1612	LIBERTY MUTUAL INSURANCE GROUP	464321	06/30/2021		071421r	4,456.78
Invoice: 464321						insurance			
				4,456.78 1030 216170		Liberty Home & Auto Ins			
						CHECK	136841	TOTAL:	4,456.78

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
136842	07/14/2021	PRTD	1625	LOWE'S COMPANIES, INC	06252021	06/30/2021		071421r	12,726.31
	Invoice: 06252021				misc supplies city jobs				
					165.03 10001189 521520	Small Tools<$5,000			
					476.93 10001192 522155	Operational Supplies			
					2,729.87 10002140 522155	Operational Supplies			
					173.70 10002140 522156	Academy Training & Supplies			
					769.22 50012140 522155	Operational Supplies			
					2,132.96 10003172 521520	Small Tools<$5,000			
					68.67 10003172 520600	Swimming Pool R & M			
					208.27 10003172 520512	Building Repairs			
					1,393.55 10003172 521720	Shop Supplies			
					243.90 10003176 520512	Building Repairs			
					68.48 10004155 522155	Operational Supplies			
					627.04 38103202 521520	Small Tools<$5,000			
					301.40 38103202 521715	Signs & Markings			
					844.55 38103202 521720	Shop Supplies			
					1,536.58 38103202 520602	Traffic Signal R&M			
					49.75 38103202 520503	Street Lighting O & M			
					11.09 40003212 520506	Repair and Replace			
					75.79 40003213 521520	Small Tools<$5,000			
					195.60 40003213 520506	Repair and Replace			
					124.15 40003213 520585	Treatment Plant O&M			
					119.88 40003215 520577	Reservoir/Booster Maint/Repair			
					25.95 40003231 521520	Small Tools<$5,000			
					134.81 40013231 521520	Small Tools<$5,000			
					249.14 40013231 521523	Equipment <$5,000			
						CHECK	136842 TOTAL:		12,726.31
136843	07/14/2021	PRTD	1520	MW FAMILY HOLDINGS LLC	063021	06/30/2021		071421r	3,096.54
	Invoice: 063021				misc supplies for city jobs				
					40.70 10003171 522155	Operational Supplies			
					720.35 10003172 520512	Building Repairs			
					1,207.15 10003172 521520	Small Tools<$5,000			
					215.81 10003172 521720	Shop Supplies			
					24.23 10003172 520600	Swimming Pool R & M			
					7.69 10003174 520512	Building Repairs			
					9.59 10004155 520586	Irrigation Systems Parts/Mater			
					122.32 10004155 522155	Operational Supplies			
					56.96 38103202 520502	Street Overlay R & M			
					10.46 38103202 521726	Sweeper Parts			
					39.47 38103202 521715	Signs & Markings			
					91.04 38103202 521520	Small Tools<$5,000			
					148.54 40003211 520586	Irrigation Systems Parts/Mater			
					22.02 40003213 520585	Treatment Plant O&M			
					207.79 40003350 521514	Water Distrib System R&M			
					64.69 40013223 520543	WW R&M			
					19.28 40013221 520540	Wastewater Plant R & M			
					8.62 40013224 520543	WW R&M			
					79.83 40013231 521512	Parts/Materials			

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
							CHECK	136843 TOTAL:	3,096.54
136844	07/14/2021	PRTD	5433	LEGALSHIELD	49588 June 2021	06/30/2021		071421r	557.10
	Invoice: 49588 June 2021				LegalShield				
					557.10 1030 216300 Pre-paid Legal				
							CHECK	136844 TOTAL:	557.10
136845	07/14/2021	PRTD	5974	SENERGY PETROLEUM, LLC	44973 JUNE2021	06/30/2021		071421r	8,780.13
	Invoice: 44973 JUNE2021				fuel police/fire #44973				
					2,170.15 10002140 522507 Vehicle Fuel				
					5,294.75 10002121 522507 Vehicle Fuel				
					1,315.23 10003171 522507 Vehicle Fuel				
				SENERGY PETROLEUM, LLC	44971 JUNE2021	06/30/2021		071421r	9,980.11
	Invoice: 44971 JUNE2021				fuel misc dept #44971				
					2,079.16 10002140 522507 Vehicle Fuel				
					7,704.07 10002121 522507 Vehicle Fuel				
					196.88 50012140 522507 Vehicle Fuel				
				SENERGY PETROLEUM, LLC	44974 JUNE2021	06/30/2021		071421r	3,132.17
	Invoice: 44974 JUNE2021				fuel #44974				
					423.78 10002140 522507 Vehicle Fuel				
					2,192.89 10002121 522507 Vehicle Fuel				
					454.00 10003171 522507 Vehicle Fuel				
					61.50 40003210 522507 Vehicle Fuel				
				SENERGY PETROLEUM, LLC	44972 JUNE2021	06/30/2021		071421r	38,239.94
	Invoice: 44972 JUNE2021				fuel #44972				
					234.32 10001189 522507 Vehicle Fuel				
					12,679.27 10002121 522507 Vehicle Fuel				
					1,312.44 10002140 522507 Vehicle Fuel				
					89.19 10003170 522507 Vehicle Fuel				
					791.96 10003171 522507 Vehicle Fuel				
					932.42 10003172 522507 Vehicle Fuel				
					1,454.67 10005180 522507 Vehicle Fuel				
					1,550.65 10005185 522507 Vehicle Fuel				
					735.53 40053205 522507 Vehicle Fuel				
					6,253.39 38103202 522507 Vehicle Fuel				
					7,241.71 40003210 522507 Vehicle Fuel				
					91.47 10004150 522507 Vehicle Fuel				
					99.63 10004151 522507 Vehicle Fuel				
					1,676.36 10004155 522507 Vehicle Fuel				
					686.68 35754150 522507 Vehicle Fuel				
					149.21 35794150 522507 Vehicle Fuel				
					1,666.98 40013220 522507 Vehicle Fuel				
					44.87 50063205 522507 Vehicle Fuel				
					21.28 50012140 522507 Vehicle Fuel				
					159.93 10004160 522507 Vehicle Fuel				

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
					INVOICE DTL DESC				
					207.99 40103200 522507 Vehicle Fuel				
					47.01 10001102 522507 Vehicle Fuel				
					112.98 10001112 522507 Vehicle Fuel				
				SENERGY PETROLEUM, LLC	44976 JUNE 2021	06/30/2021		071421r	3,904.12
				Invoice: 44976 JUNE 2021	fuel #44976 FS705				
					2,819.82 10002121 522507 Vehicle Fuel				
					1,084.30 10002140 522507 Vehicle Fuel				
							CHECK	136845 TOTAL:	64,036.47
136846	07/14/2021	PRTD	6069	UNITED PET CARE, LLC	20218224	06/30/2021		071421r	660.82
				Invoice: 20218224	employees pet care ins.				
					660.82 1030 216450 United Pet Care				
							CHECK	136846 TOTAL:	660.82
					NUMBER OF CHECKS 12		*** CASH ACCOUNT TOTAL ***		94,058.83

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	12	94,058.83

*** GRAND TOTAL *** 94,058.83

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

YEAR PER JNL SRC ACCOUNT / EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2022 1 338									
APP 1030-201000					Accounts Payable			12,334.08	
07/14/2021	071421r	r07142			AP CASH DISBURSEMENTS JOURNAL				
APP 9999-104000					Cash in Bank - Checking				94,058.83
07/14/2021	071421r	r07142			AP CASH DISBURSEMENTS JOURNAL				
APP 1000-201000					Accounts Payable			58,604.84	
07/14/2021	071421r	r07142			AP CASH DISBURSEMENTS JOURNAL				
APP 4000-201000					Accounts Payable			8,274.26	
07/14/2021	071421r	r07142			AP CASH DISBURSEMENTS JOURNAL				
APP 5001-201000					Accounts Payable			987.38	
07/14/2021	071421r	r07142			AP CASH DISBURSEMENTS JOURNAL				
APP 3810-201000					Accounts Payable			9,810.64	
07/14/2021	071421r	r07142			AP CASH DISBURSEMENTS JOURNAL				
APP 4001-201000					Accounts Payable			2,223.35	
07/14/2021	071421r	r07142			AP CASH DISBURSEMENTS JOURNAL				
APP 4005-201000					Accounts Payable			735.53	
07/14/2021	071421r	r07142			AP CASH DISBURSEMENTS JOURNAL				
APP 3575-201000					Accounts Payable			686.68	
07/14/2021	071421r	r07142			AP CASH DISBURSEMENTS JOURNAL				
APP 3579-201000					Accounts Payable			149.21	
07/14/2021	071421r	r07142			AP CASH DISBURSEMENTS JOURNAL				
APP 5006-201000					Accounts Payable			44.87	
07/14/2021	071421r	r07142			AP CASH DISBURSEMENTS JOURNAL				
APP 4010-201000					Accounts Payable			207.99	
07/14/2021	071421r	r07142			AP CASH DISBURSEMENTS JOURNAL				
					GENERAL LEDGER TOTAL			94,058.83	94,058.83
APP 9999-201010					DT DF			94,058.83	
07/14/2021	071421r	r07142							
APP 1030-101010					Pooled Cash Equity				12,334.08
07/14/2021	071421r	r07142							
APP 1000-101010					Pooled Cash Equity				58,604.84
07/14/2021	071421r	r07142							
APP 4000-101010					Pooled Cash Equity				8,274.26
07/14/2021	071421r	r07142							
APP 5001-101010					Pooled Cash Equity				987.38
07/14/2021	071421r	r07142							
APP 3810-101010					Pooled Cash Equity				9,810.64
07/14/2021	071421r	r07142							
APP 4001-101010					Pooled Cash Equity				2,223.35
07/14/2021	071421r	r07142							
APP 4005-101010					Pooled Cash Equity				735.53
07/14/2021	071421r	r07142							
APP 3575-101010					Pooled Cash Equity				686.68
07/14/2021	071421r	r07142							
APP 3579-101010					Pooled Cash Equity				149.21

JOURNAL ENTRIES TO BE CREATED

YEAR PER JNL SRC ACCOUNT	EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
	07/14/2021	071421r	r07142							
APP 5006-101010						Pooled Cash Equity				44.87
	07/14/2021	071421r	r07142							
APP 4010-101010						Pooled Cash Equity				207.99
	07/14/2021	071421r	r07142							
						SYSTEM GENERATED ENTRIES TOTAL			94,058.83	94,058.83
						JOURNAL 2022/01/338 TOTAL			188,117.66	188,117.66

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR	PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
1000 General Fund	2022	1	338	07/14/2021			
1000-101010				Pooled Cash Equity			58,604.84
1000-201000				Accounts Payable		58,604.84	
					FUND TOTAL	58,604.84	58,604.84
1030 Payroll Fund	2022	1	338	07/14/2021			
1030-101010				Pooled Cash Equity			12,334.08
1030-201000				Accounts Payable		12,334.08	
					FUND TOTAL	12,334.08	12,334.08
3575 Area Agency on Aging	2022	1	338	07/14/2021			
3575-101010				Pooled Cash Equity			686.68
3575-201000				Accounts Payable		686.68	
					FUND TOTAL	686.68	686.68
3579 Arizona Lottery Fund	2022	1	338	07/14/2021			
3579-101010				Pooled Cash Equity			149.21
3579-201000				Accounts Payable		149.21	
					FUND TOTAL	149.21	149.21
3810 Highway User Revenue Fund	2022	1	338	07/14/2021			
3810-101010				Pooled Cash Equity			9,810.64
3810-201000				Accounts Payable		9,810.64	
					FUND TOTAL	9,810.64	9,810.64
4000 Water Utility Fund	2022	1	338	07/14/2021			
4000-101010				Pooled Cash Equity			8,274.26
4000-201000				Accounts Payable		8,274.26	
					FUND TOTAL	8,274.26	8,274.26
4001 Wastewater Fund	2022	1	338	07/14/2021			
4001-101010				Pooled Cash Equity			2,223.35
4001-201000				Accounts Payable		2,223.35	
					FUND TOTAL	2,223.35	2,223.35
4005 Environmental Services	2022	1	338	07/14/2021			
4005-101010				Pooled Cash Equity			735.53
4005-201000				Accounts Payable		735.53	
					FUND TOTAL	735.53	735.53
4010 Airport Fund	2022	1	338	07/14/2021			

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR	PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
4010-101010				Pooled Cash Equity			207.99
4010-201000				Accounts Payable		207.99	
					FUND TOTAL	207.99	207.99
5001 Cemetery Improvement Fund	2022	1	338	07/14/2021			
5001-101010				Pooled Cash Equity			987.38
5001-201000				Accounts Payable		987.38	
					FUND TOTAL	987.38	987.38
5006 Stormwater Quality Fund	2022	1	338	07/14/2021			
5006-101010				Pooled Cash Equity			44.87
5006-201000				Accounts Payable		44.87	
					FUND TOTAL	44.87	44.87
9999 Pooled Cash	2022	1	338	07/14/2021			
9999-104000				Cash in Bank - Checking			94,058.83
9999-201010				DT DF		94,058.83	
					FUND TOTAL	94,058.83	94,058.83

JOURNAL ENTRIES TO BE CREATED

FUND		DUE TO	DUE FR
1000	General Fund		58,604.84
1030	Payroll Fund		12,334.08
3575	Area Agency on Aging		686.68
3579	Arizona Lottery Fund		149.21
3810	Highway User Revenue Fund		9,810.64
4000	Water Utility Fund		8,274.26
4001	Wastewater Fund		2,223.35
4005	Environmental Services		735.53
4010	Airport Fund		207.99
5001	Cemetery Improvement Fund		987.38
5006	Stormwater Quality Fund		44.87
9999	Pooled Cash	94,058.83	
	TOTAL	94,058.83	94,058.83

** END OF REPORT - Generated by Damika Newman **

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
						INVOICE DTL DESC			
136801	07/07/2021	PRTD	999997	ACE ASPHALT	105885	06/24/2021		070721ub	736.44
Invoice: 105885						UB 6007613 OF CLANTON AVE & 9TH			
				736.44 4000	130010	A/R UB Other			
				ACE ASPHALT	105897	06/24/2021		070721ub	1,125.93
Invoice: 105897						UB 6006699 LOWER BUCKEYE RD & 240TH			
				1,125.93 4000	130010	A/R UB Other			
						CHECK	136801 TOTAL:		1,862.37
136802	07/07/2021	PRTD	999997	OPENDOOR LABS, INC.	105882	06/24/2021		070721ub	10.51
Invoice: 105882						UB 801699 1006 202ND LN			
				10.51 4000	130010	A/R UB Other			
				OPENDOOR LABS, INC.	105894	06/24/2021		070721ub	7.86
Invoice: 105894						UB 989266 5280 237TH LN			
				7.86 4000	130000	Accounts Receivable			
						CHECK	136802 TOTAL:		18.37
136803	07/07/2021	PRTD	999997	BEERS, MICHAEL	105878	06/24/2021		070721ub	43.92
Invoice: 105878						UB 177776 3653 HOOPER ST			
				43.92 4005	130000	Accounts Receivable			
						CHECK	136803 TOTAL:		43.92
136804	07/07/2021	PRTD	999997	BOGARD, MICHAEL	105866	06/24/2021		070721ub	164.04
Invoice: 105866						UB 147918 22372 CANTILEVER CT			
				164.04 4000	130000	Accounts Receivable			
						CHECK	136804 TOTAL:		164.04
136805	07/07/2021	PRTD	999997	CHERWIN, ALEXANDRA	105868	06/24/2021		070721ub	138.48
Invoice: 105868						UB 985515 25787 LYNNE LN			
				138.48 4000	130000	Accounts Receivable			
						CHECK	136805 TOTAL:		138.48
136806	07/07/2021	PRTD	999997	CHRISTIANSEN, NANCY	105883	06/24/2021		070721ub	53.71
Invoice: 105883						UB 6005567 26138 SIESTA			
				53.71 4000	130000	Accounts Receivable			
						CHECK	136806 TOTAL:		53.71

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
136807	07/07/2021	PRTD	999997	CUNNINGHAM, TODD	105867	06/24/2021		070721ub	85.00
Invoice: 105867						UB 6006813 19124 TOWNLEY			
				85.00 4000	130000	Accounts Receivable			
						CHECK		136807 TOTAL:	85.00
136808	07/07/2021	PRTD	999997	ESTATE OF DAVID L VINES JR	105869	06/24/2021		070721ub	175.00
Invoice: 105869						UB 987377 3358 257TH DR			
				43.17 4000	130000	Accounts Receivable			
				131.83 4001	130000	Accounts Receivable			
						CHECK		136808 TOTAL:	175.00
136809	07/07/2021	PRTD	999997	GILL, JEFFREY & THERESA	105881	06/24/2021		070721ub	29.04
Invoice: 105881						UB 6000260 20655 LEGEND			
				29.04 4005	130000	Accounts Receivable			
						CHECK		136809 TOTAL:	29.04
136810	07/07/2021	PRTD	999997	HAGEN, MARVIN	105893	06/24/2021		070721ub	8.74
Invoice: 105893						UB 179771 21347 HOLLY ST			
				8.74 4005	130000	Accounts Receivable			
						CHECK		136810 TOTAL:	8.74
136811	07/07/2021	PRTD	999997	HAYES, DAVID	105886	06/24/2021		070721ub	8.74
Invoice: 105886						UB 170679 4129 PARK ST			
				8.74 4005	130000	Accounts Receivable			
						CHECK		136811 TOTAL:	8.74
136812	07/07/2021	PRTD	999997	HERRMANN, KRISTINA	105888	06/24/2021		070721ub	51.82
Invoice: 105888						UB 115309 22638 MOHAVE ST			
				51.82 4000	130000	Accounts Receivable			
						CHECK		136812 TOTAL:	51.82
136813	07/07/2021	PRTD	999997	INVESTMENT ARK INC	105876	06/24/2021		070721ub	138.09
Invoice: 105876						UB 983626 105 BASELINE RD			
				138.09 4000	130000	Accounts Receivable			
						CHECK		136813 TOTAL:	138.09

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
136814	07/07/2021	PRTD	999997	JIMENEZ, PERFECTO	105879	06/24/2021		070721ub	7.36
Invoice: 105879				UB 983964 217 PIMA RD					
				7.36 4000 130000 Accounts Receivable					
							CHECK	136814 TOTAL:	7.36
136815	07/07/2021	PRTD	999997	JURGENSEN, ROBERTA	105896	06/24/2021		070721ub	30.03
Invoice: 105896				UB 201483 29795 WHITTON AVE					
				30.03 4000 130000 Accounts Receivable					
							CHECK	136815 TOTAL:	30.03
136816	07/07/2021	PRTD	999997	KING, CHRISTIAN & STEPHANIE	105871	06/24/2021		070721ub	513.41
Invoice: 105871				UB 60947 21338 MONTE VISTA					
				513.41 4005 130000 Accounts Receivable					
							CHECK	136816 TOTAL:	513.41
136817	07/07/2021	PRTD	999997	LEE, ALAN	105890	06/24/2021		070721ub	47.66
Invoice: 105890				UB 151620 23402 COCOPAH ST					
				47.66 4000 130000 Accounts Receivable					
							CHECK	136817 TOTAL:	47.66
136818	07/07/2021	PRTD	999997	LEVINE, JAY	105863	06/24/2021		070721ub	108.39
Invoice: 105863				UB 125030 22872 GARDENIA DR					
				108.39 4001 130000 Accounts Receivable					
							CHECK	136818 TOTAL:	108.39
136819	07/07/2021	PRTD	999997	MENDEZ, BENNIE	105874	06/24/2021		070721ub	88.92
Invoice: 105874				UB 200925 29719 FAIRMOUNT AVE					
				88.92 4000 130000 Accounts Receivable					
							CHECK	136819 TOTAL:	88.92
136820	07/07/2021	PRTD	999997	MORENO, VINCE & SALINAS, JORDAN	105872	06/24/2021		070721ub	135.14
Invoice: 105872				UB 6002691 31009 COLUMBUS					
				135.14 4000 130000 Accounts Receivable					
							CHECK	136820 TOTAL:	135.14

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
136821	07/07/2021	PRTD	999997	OFFERPAD LLC	105870	06/24/2021		070721ub	175.00
Invoice: 105870				UB 987054 6105 257TH DR					
				175.00 4000 130000 Accounts Receivable					
						CHECK	136821 TOTAL:		175.00
136822	07/07/2021	PRTD	999997	OWEN, LEE-MICHAEL & BREEANNA	105873	06/24/2021		070721ub	57.34
Invoice: 105873				UB 6001426 30455 FAIRMOUNT					
				57.34 4000 130000 Accounts Receivable					
						CHECK	136822 TOTAL:		57.34
136823	07/07/2021	PRTD	999997	PARAL, PATRICIA	105884	06/24/2021		070721ub	47.66
Invoice: 105884				UB 140140 1099 223RD LN					
				47.66 4000 130000 Accounts Receivable					
						CHECK	136823 TOTAL:		47.66
136824	07/07/2021	PRTD	999997	PROPERTIES, ULTIMATE	105895	06/24/2021		070721ub	84.68
Invoice: 105895				UB 115311 22652 MOHAVE ST					
				84.68 4000 130000 Accounts Receivable					
						CHECK	136824 TOTAL:		84.68
136825	07/07/2021	PRTD	999997	SARKIS, ARDJIAN	105875	06/24/2021		070721ub	118.64
Invoice: 105875				UB 6005007 21642 260TH					
				118.64 4000 130000 Accounts Receivable					
						CHECK	136825 TOTAL:		118.64
136826	07/07/2021	PRTD	999997	SIGNPOST HOMES, INC	105887	06/24/2021		070721ub	112.34
Invoice: 105887				UB 106359 25436 JACKSON AVE					
				112.34 4000 130000 Accounts Receivable					
						CHECK	136826 TOTAL:		112.34
136827	07/07/2021	PRTD	999997	STANDLEE, MARIETTA	105864	06/24/2021		070721ub	125.49
Invoice: 105864				UB 186726 21711 COCOPAH ST					
				125.49 4001 130000 Accounts Receivable					
						CHECK	136827 TOTAL:		125.49

CASH ACCOUNT: 9999 104000 Cash in Bank - Checking

CHECK NO	CHK DATE	TYPE	VENDOR	NAME	INVOICE	INV DATE	PO	CHECK	NET
				INVOICE DTL DESC					
136828	07/07/2021	PRTD	999997	TAH 2018-1 BORROWER LLC	105891	06/24/2021	070721ub		12.36
Invoice: 105891				UB 162380 24039 ANTELOPE TRL					
				12.36 4000 130000 Accounts Receivable					
								CHECK 136828 TOTAL:	12.36
136829	07/07/2021	PRTD	999997	TAH HOLDING LP	105892	06/24/2021	070721ub		8.74
Invoice: 105892				UB 178738 20998 HAMILTON ST					
				8.74 4005 130000 Accounts Receivable					
								CHECK 136829 TOTAL:	8.74
136830	07/07/2021	PRTD	999997	TORRENT RESOURCES	105898	06/24/2021	070721ub		706.51
Invoice: 105898				UB 6008669 HOPI ST EAST OF 224TH					
				706.51 4000 130010 A/R UB Other					
								CHECK 136830 TOTAL:	706.51
136831	07/07/2021	PRTD	999997	TROWERN, DAVID	105889	06/24/2021	070721ub		46.30
Invoice: 105889				UB 982887 7148 MORNING DEW LN					
				46.30 4000 130000 Accounts Receivable					
								CHECK 136831 TOTAL:	46.30
136832	07/07/2021	PRTD	999997	VERNON, JOSEPH	105877	06/24/2021	070721ub		8.20
Invoice: 105877				UB 177761 20705 FOUNDER CIR					
				8.20 4005 130000 Accounts Receivable					
								CHECK 136832 TOTAL:	8.20
136833	07/07/2021	PRTD	999997	WATSON, COLLEEN	105880	06/24/2021	070721ub		56.10
Invoice: 105880				UB 6005562 19762 ADAMS					
				56.10 4000 130010 A/R UB Other					
								CHECK 136833 TOTAL:	56.10
136834	07/07/2021	PRTD	999997	WOLLMAN, TOBIA	105865	06/24/2021	070721ub		22.36
Invoice: 105865				UB 201640 29986 MITCHELL AVE					
				22.36 4000 130000 Accounts Receivable					
								CHECK 136834 TOTAL:	22.36

NUMBER OF CHECKS 34 *** CASH ACCOUNT TOTAL *** 5,289.95

	COUNT	AMOUNT
TOTAL PRINTED CHECKS	34	5,289.95

*** GRAND TOTAL *** 5,289.95

JOURNAL ENTRIES TO BE CREATED

CLERK: dnewman

SRC	ACCOUNT	EFF DATE	JNL DESC	REF 1	REF 2	REF 3	ACCOUNT DESC / LINE DESC	T	OB	DEBIT	CREDIT
2022	1	128									
APP	4000-201000						Accounts Payable			4,303.45	
		07/07/2021	070721ub	ub0707			AP CASH DISBURSEMENTS JOURNAL				
APP	9999-104000						Cash in Bank - Checking				5,289.95
		07/07/2021	070721ub	ub0707			AP CASH DISBURSEMENTS JOURNAL				
APP	4005-201000						Accounts Payable			620.79	
		07/07/2021	070721ub	ub0707			AP CASH DISBURSEMENTS JOURNAL				
APP	4001-201000						Accounts Payable			365.71	
		07/07/2021	070721ub	ub0707			AP CASH DISBURSEMENTS JOURNAL				
							GENERAL LEDGER TOTAL			5,289.95	5,289.95
APP	9999-201010						DT DF			5,289.95	
		07/07/2021	070721ub	ub0707							
APP	4000-101010						Pooled Cash Equity				4,303.45
		07/07/2021	070721ub	ub0707							
APP	4005-101010						Pooled Cash Equity				620.79
		07/07/2021	070721ub	ub0707							
APP	4001-101010						Pooled Cash Equity				365.71
		07/07/2021	070721ub	ub0707							
							SYSTEM GENERATED ENTRIES TOTAL			5,289.95	5,289.95
							JOURNAL 2022/01/128 TOTAL			10,579.90	10,579.90

JOURNAL ENTRIES TO BE CREATED

FUND / ACCOUNT	YEAR	PER	JNL	EFF DATE / ACCOUNT DESCRIPTION		DEBIT	CREDIT
4000 Water Utility Fund	2022	1	128	07/07/2021			
4000-101010				Pooled Cash Equity			4,303.45
4000-201000				Accounts Payable		4,303.45	
					FUND TOTAL	4,303.45	4,303.45
4001 Wastewater Fund	2022	1	128	07/07/2021			
4001-101010				Pooled Cash Equity			365.71
4001-201000				Accounts Payable		365.71	
					FUND TOTAL	365.71	365.71
4005 Environmental Services	2022	1	128	07/07/2021			
4005-101010				Pooled Cash Equity			620.79
4005-201000				Accounts Payable		620.79	
					FUND TOTAL	620.79	620.79
9999 Pooled Cash	2022	1	128	07/07/2021			
9999-104000				Cash in Bank - Checking			5,289.95
9999-201010				DT DF		5,289.95	
					FUND TOTAL	5,289.95	5,289.95

JOURNAL ENTRIES TO BE CREATED

FUND	DUE TO	DUE FR
4000 Water Utility Fund		4,303.45
4001 Wastewater Fund		365.71
4005 Environmental Services		620.79
9999 Pooled Cash	5,289.95	
TOTAL	5,289.95	5,289.95

** END OF REPORT - Generated by Damika Newman **

Wire disbursements for April - June 8, 2021

Date	Vendor	Description		Amount
3/29/2021	Bank of America	Bank card payments (p-cards)	$	128,180.70
4/7/2021	AZ State Treasury	LGIP deposit	$	5,000,000.00
4/13/2021	Buckeye Tartesso LLC	Dolphin Partners - Public Safety Impact Fee Reimb - Central North Jan-March 2021	$	163,674.00
4/13/2021	Buckeye Tartesso LLC	Dolphin Partners - Water Impact Fee Reimb - Jan-March 2021	$	702,513.00
4/13/2021	DMB White Tank LLC	Verrado Dist 1 Infrastructure Reimb 2020 - Verrado Way South Expansion Landscape	$	503,174.00
4/20/2021	Buckeye Tartesso II LLC (Elianto West)	Wastewater Impact Fee Reimb Jan-Mar 2021	$	470,149.80
4/20/2021	Elianto LandValorem LP	Wastewater Impact Fee Reimb Jan-Mar 2021	$	979,480.20
4/22/2021	Zions Bank	Festival Ranch GO property taxes	$	143,455.34
4/22/2021	Zions Bank	Verrado Dist 1 property tax Dec	$	194,336.68
4/22/2021	Zions Bank	Verrado W/O proeprty tax Dec	$	23,860.66
4/26/2021	AZDOR	TPT Tax	$	208,208.68
4/29/2021	Bank of America	Bank card payments (p-cards)	$	171,393.73
5/10/2021	BNF Thomas Corporate Escrow	HB-2A2B SEBIG TOB	$	7,877.75
5/20/2021	Zions Bank	Festival Ranch GO property taxes	$	486,590.18
5/20/2021	Zions Bank	Verrado Dist 1 property tax Dec	$	1,225,603.45
5/20/2021	Zions Bank	Verrado W/O proeprty tax Dec	$	121,424.32
5/25/2021	AZDOR	TPT Tax	$	231,610.13
6/1/2021	Bank of America	Bank card payments (p-cards)	$	163,656.97
6/7/2021	Zions Bank	Festival Ranch SA 7 2011 Mar- May payments	$	10,524.72
6/7/2021	Zions Bank	Festival Ranch SA 6 2009 Mar- May payments	$	6,610.80
6/7/2021	Zions Bank	Festival Ranch SA 4&5 2007 Mar- May payments	$	39,062.01
6/7/2021	Zions Bank	Festival Ranch SA 2&3 2007 Mar- May payments	$	35,016.84
6/8/2021	Hilco IP Svs LLC Hilco Streambank Escrow	Purchase of City of Buckeye IP addresses	$	10,028.00

Wire disbursements for June 2021

Date	Vendor	Description		Amount
6/14/2021	Arizona Corporate Trust	Westpark CFD #1 - Feb-May payments	$	62,006.24
6/14/2021	BNF Thomas Corporate Escrow	HB-2A2B SEBIG TOB	$	4,663.00
6/14/2021	Arizona Corporate Trust	Sundance CFD SA 3 - Feb-May payments	$	28,521.46
6/14/2021	Arizona Corporate Trust	Sundance CFD SA 2 - Feb-May payments	$	116,288.50
6/15/2021	Arizona Corporate Trust	Festival Ranch SA 7 May payments	$	83.73
6/15/2021	Arizona Corporate Trust	Festival Ranch SA 2&3 May payments	$	3,278.17
6/15/2021	Arizona Corporate Trust	Festival Ranch SA 4&5 May payments	$	2,318.81
6/15/2021	Arizona Corporate Trust	Festival Ranch SA 6 May payments	$	1,805.16
6/16/2021	Arizona Corporate Trust	Verrado Dist 1 Property Tax May	$	161,782.09
6/16/2021	Arizona Corporate Trust	Festival Ranch GO Property Tax May	$	11,031.11
6/16/2021	Arizona Corporate Trust	Verrado W/O Property Tax May	$	33,755.33
6/24/2021	Arizona Corporate Trust	Roosevelt ID Series 2018 Bond payment	$	92,732.50
6/24/2021	Arizona Corporate Trust	Jackrabbit ID Series 2009 Bond Payment	$	7,312.50
6/24/2021	Arizona Corporate Trust	Festival Ranch SA 8 2013 Bond Payment	$	11,719.19
6/24/2021	Arizona Corporate Trust	Festival Ranch SA 9 2015 Bond Payment	$	12,920.00
6/24/2021	Arizona Corporate Trust	Festival Ranch SA 10 2016 Bond Payment	$	11,017.04
6/24/2021	Arizona Corporate Trust	Festival Ranch SA 11 2017 Bond Payment	$	164,844.50
6/24/2021	Arizona Corporate Trust	Festival Ranch SA 12 2018 Bond Payment	$	12,528.63
6/24/2021	Arizona Corporate Trust	Festival Ranch SA 13 2018 Bond Payment	$	337,139.00
6/24/2021	Arizona Corporate Trust	Festival Ranch SA 14 2019 Bond Payment	$	56,681.13
6/25/2021	Western Alliance Bank	Watson Road CFD Bond Payment	$	3,372,654.69
6/28/2021	US Bank	Rev Refund Series 2015 Bond Payment	$	740,024.93
6/28/2021	US Bank	GADA 2007A Infra Rev Bond - Bond Payment	$	126,390.48
6/28/2021	US Bank	Rev Refund Series 2016 Bond Payment	$	674,356.02
6/28/2021	Zions Bank	Buckeye Water & Sewer Series 2015 Bond Payment	$	5,937.50
6/28/2021	Pioneer Title Agency	Escrow #77602951-076-DIO	$	96,312.55
6/28/2021	US Bank	Buckeye Excise Tax Rev 2015 (Global) Bond Payment	$	2,320,311.08
6/30/2021	Public Safety Personnel Retirement System	PSPRS Employer Portion - Police Unfunded Liability Account based on FY21 remaining budget	$	400,000.00
6/30/2021	Public Safety Personnel Retirement System	PSPRS Employer Portion - Fire Unfunded Liability Account based on FY21 remaining budget	$	700,000.00

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.A. Boards and Commissions Changes
DATE PREPARED: 08/12/21	**DISTRICT NO.:** ALL
STAFF LIAISON: Summer Stewart, Deputy City Clerk, sstewart@buckeyeaz.gov, (623) 349-6914	
DEPARTMENT: City Clerk	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on the appointment of Martin Garcia Enriquez as a Regular Member of the Community Services Advisory Board with a term expiration date of December 2025.

RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:
The City encourages community involvement in our programs through our boards and commissions. Martin Garcia Enriquez will fill a vacant seat on the Community Services Advisory Board. Resignation notices and Boards and Commissions applications are available for review in the Office of the City Clerk.

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.B. Buckeye Youth Council New Appointments and Removals
DATE PREPARED: 08/12/21	**DISTRICT NO.:**
STAFF LIAISON: Maria Riebs, Assistant to Council, mriebs@buckeyeaz.gov, (623) 349-6955	
DEPARTMENT: Mayor & Council	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on the removal of Nathan Balos, Anakaren Almonte Montelongo, Kaija Martin, Kayla Black, Kelsi Hyer, and John Rico as regular members of the Buckeye Youth Council, and the appointment of Natalie Tierney, Teuila Lafi, Ariana Flores, Ryden Saiz, Vittoria Campanile, and Summer Elliott as regular members of the Buckeye Youth Council, with a term expiration date of August, 2023.

RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:
The City encourages community involvement in our programs though our boards and commissions. The Buckeye Youth Council (BYC) consists of a diverse group of youth members representing all City communities and informs the City Council on issues related to the youth. Members are removed when they are no longer eligible to serve. Nathan Balos, Kaija Martin and Anakaren Almonte Montelongo are no longer eligible to serve as they have just graduated from high school. Kayla Black, Kelsi Hyer and John Rico have resigned from the Buckeye Youth Council. Natalie Tierney, Teuila Lafi, Ariana Flores, Ryden Saiz, Vittoria Campanile, and Summer Elliott are new applicants seeking appointment to the Buckeye Youth Council. (Applications are on file in the City Clerk's Office)

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.C. Area Agency on Aging Vehicle Lease Agreement V2022-08-BKY
DATE PREPARED: 08/12/21	**DISTRICT NO.:** ALL
STAFF LIAISON: Philip Yabes, Senior Center Manager, pyabes@buckeyeaz.gov (623) 349-6604	
DEPARTMENT: Community Services	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on Vehicle Lease Agreement V202-08-BKY ("Lease") between the City of Buckeye ("Buckeye") and Area Agency on Aging, Region One, Incorporated ("Area Agency") for lease vehicles for a term of one year ending June 30, 2022. The vehicles will be utilized for home delivered meal and transportation service programs for the City of Buckeye Senior Program; authorizing the City Manager to approve, execute and deliver all current and future documents in connection with the Lease between Area Agency and Buckeye, including any Amendments thereto.

RELEVANT GOALS:
GOAL 1: Fiscal Wellness and Financial Flexibility and Accountability

ADDITIONAL RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:
The vehicle lease agreement between the City of Buckeye and Area Agency on Aging Region One Incorporated, allows the City of Buckeye Senior Program to utilize four vehicles owned by Area Agency. The City of Buckeye can lease these vehicles for $1 each per fiscal year. The vehicles are used to deliver home meals and for transportation services, such as transporting older adults to and from their homes to the Senior Center and for medical appointments in the west valley.

BENEFITS:
Approval of this lease agreement provides the City of Buckeye Senior Program four vehicles to transport home delivered meals and other transportation services for older adults.

FUTURE ACTION:
Upon approval of this agreement, staff can proceed with executing the agreement with Area Agency on Aging Region One, Incorporated.

FINANCIAL IMPACT STATEMENT:
The City of Buckeye Senior Program leases each vehicle for $1.00 per fiscal year. Vehicle maintenance is approximately $2,500 per year per vehicle, or $10,000

CURRENT FISCAL YEAR TOTAL COST:

$10,004.00

BUDGETED:
Yes

FISCAL YEAR:
FY 2022

FUND/DEPARTMENT:
35754150 -CSD/AAA

Items related to a project or facility location must include an attached vicinity map for Council Review.

ATTACHMENTS:
2021-2022 Vehicle Lease Agreement between Area Agency on Aging and City of Buckeye.pdf

VEHICLE LEASE AGREEMENT Between

V2022-08-BKY

Area Agency on Aging, Region One, Incorporated
1366 E. Thomas Road, Suite 108
Phoenix, Arizona 85014
602-264-2255 fax: 602-230-9132

AND

City of Buckeye
530 East Monroe Ave
Buckeye, Arizona 85326
623-349-6000 fax: 623-349-6611
EIN 866000236

DURATION OF THE AGREEMENT, FY 2022: Effective July 1, 2021 and shall end June 30, 2022.

CONTACT INFORMATION FOR NOTICES

Area Agency and Contractor shall address all notices relative to this Agreement to the addresses as identified above and persons as follows:

Jaycene Cassata, Finance Dept. Philip Yabes, Community Center Manager

RECOGNITION OF AND REFERENCE TO SERVICE CONTRACT 2022-12 -BKY

The terms and conditions of this Agreement are specifically related to and legally binding with the Area Agency's Service Contract with the Contractor. This lease of vehicle(s) action is intended solely for the purpose of providing services as specified in the contract number identified above between the Area Agency and Contractor. All terms, effective dates, and actions pertaining to the Service Contract shall be binding to this Vehicle Lease Agreement.

This Contract is entered into by and between City of Buckeye, hereafter referred to as Contractor, and Area Agency on Aging, Region One, Incorporated, hereafter referred to as Area Agency. The Contractor, in consideration of the covenants and conditions set forth herein, shall provide and perform the services as set forth in the Terms and Conditions. Contractor hereby affirms that all insurance and indemnification requirements as set forth in this contract have been met and shall be maintained fully throughout the terms of this contract. Further, Contractor will supply to Area Agency the required certificates of insurance including all required "additional insured" as identified in this contract. All rights and obligations of the parties shall be governed by the terms of this document, and shall include any subcontracts.

Notice under this Contract shall be given by personal delivery or by mail to the persons indicated above and shall be effective upon receipt by the party to whom addressed unless otherwise indicated in said notice.

IN WITNESS WHEREOF, the parties enter into this Contract:

AREA AGENCY ON AGING,
REGION ONE, INCORPORATED

CITY OF BUCKEYE
A MUNICIPAL CORPORATION

Signature and Date

Mary Lynn Kasunic, President & CEO
Area Agency on Aging Director

Signature and Date

Roger Klingler, City Manager

City of Buckeye ATTEST:	City of Buckeye APPROVED AS TO FORM:
City Clerk	City Attorney

MG2:ddh 4183076.1 7/19/2021

Vehicle Lease Identification Page

Year & Make	**Model**	**VIN #**
2015 FORD	ESCAPE SUV	1FMCU0GX0FUB07390
2017 FORD	ESCAPE SUV	1FMCU0GD2HUC38717
2018 FORD	ESCAPE SUV – GAS	1FMCU0GD27JUC20154
2020 FORD	STARCRAFT ALLSTAR 22	1FDEE3F6XKDC71563

Terms and Conditions

1. CONTRACT ADMINISTRATION
    a. Vehicle Lease Area Agency hereby leases vehicle(s) as described on the Vehicle Lease Identification Page to the Contractor for the sum of one dollar ($1.00) per vehicle.
    b. Contract Term The term of this agreement shall be for the period of time from the begin date identified on the Signature page to the termination date identified on the Signature page and as related to the Service Contract identified on the Signature page.
    c. Term The terms of this agreement constitute the entire agreement between Area Agency and the Contractor. Parties represent that there are no collateral agreements to the agreement
    d. Compliance with Applicable Laws
        i. All changes in the governing laws, rules, and regulations during the term of this contract shall apply but do not require an amendment to this contract.
        ii. This contract shall be governed and interpreted by the laws of the State of Arizona.
        iii. The materials and services supplied under this contract shall comply with all applicable federal, state, and local laws and the Contractor shall maintain all applicable license and permit requirements.
        iv. The Contractor shall comply with the requirements related to reporting to a peace officer or to child or adult protective services incidents of crimes against children as specified in A.R.S. §13-3620 and crimes against the elderly as specified in A.R.S. §46-454 as may be amended.
    e. Notices All notices under this Lease Agreement shall be directed in writing to the persons and addresses specified for such purpose on the Signature page or to such other persons and/or addresses as either party may designate to the other by notice. In the event that no person is designated to receive notices then notices shall be sent to the contract signatory.
    f. Assignment and Delegation Contractor shall not assign any right nor delegate any duty under this contract, without the prior written approval of the Area Agency President/CEO.
    g. Liens Contractor agrees to keep the leased vehicle(s) free from any liens or other claims and will indemnify the Area Agency from any such liens or other claims.
    h. Visitation, Inspection Contractor's facilities, vehicles leased in this agreement, services and individuals served, books and records pertaining to the contract shall be available for visitation, inspection and copying by Area Agency and any other appropriate agent of a funding source or the state or federal government. At the discretion of Area Agency, visitation, inspection and copying may be at any time during regular business hours, announced or unannounced. If Area Agency deems it to be an emergency situation, it may at any time visit and inspect the Contractor's or subcontractor's facilities, services, and individuals served, as well as inspect and copy their contract-related books and records.
    i. Books and Records The Contractor shall retain and shall contractually require each subcontractor to retain all data and other “records” relating to the acquisition and performance of the contract for a period of five years after the completion of the contract. All records shall be subject to inspection and audit by Area Agency at reasonable times. Upon request, the Contractor shall produce a legible copy of any or all such records. Vehicle service records will be maintained in accordance with prescribed Area Agency policies and procedures.
    j. Termination
        i. Mutual Agreement This contract may be terminated by mutual agreement of the parties at any time during the term of this agreement.
        ii. Termination of Service Contract Upon termination of the Service Contract as identified on the Signature Page results in a termination of this Vehicle Lease Agreement.
        iii. Non-Appropriations Contractor is obligated only to pay its obligations set forth in this agreement as may lawfully be made from funds appropriated and budgeted for that purpose during Contractor’s then current fiscal year. The Contractor’s obligations under this agreement are current expenses subject to the "budget law" and the unfettered legislative decision of the Contractor concerning budgeted purposes and appropriation of funds. Should Contractor elect

not to appropriate and budget funds to pay its agreement obligations, this agreement shall be deemed terminated at the end of the then-current fiscal year term for which such funds were appropriated and budgeted for such purpose and Contractor shall be relieved of any subsequent obligation under this agreement. The parties agree that Contractor has no obligation or duty of good faith to budget or appropriate the payment of the obligations found in this agreement in any budget in any fiscal year other than the fiscal year in which this agreement is executed and delivered. Contractor shall be the sole judge and authority in determining the availability of funds for its obligations under this agreement. The obligation of Contractor to make any payment pursuant to this agreement is not a general obligation or indebtedness of Contractor. Area Agency hereby waives any and all rights to bring any claim against Contractor for or relating in any way to Contractor's termination of this Agreement pursuant to this Section 1(j)(iii).

iv. Cancellation for Conflict of Interest Pursuant to A.R.S §38-511 as may be amended, Area Agency may cancel this contract within three (3) years after contract execution without penalty or further obligation if any person significantly involved in initiating, negotiating, securing, drafting or creating the contract on behalf of the Area Agency is or becomes at any time while the contract or an extension of the contract is in effect an employee of or a consultant to any other party to this contract with respect to the subject matter of the contract. The cancellation shall be effective when the Contractor receives written notice of the cancellation unless the notice specifies a later time. If the Contractor is a political subdivision of the State, it may also cancel this contract as provided in A.R.S §38-511 as may be amended.

v. Gratuities The Area Agency may, by written notice to the Contractor, terminate this contract in whole or in part if Area Agency determines that employment or a gratuity was offered or made by the Contractor or a representative of the Contractor to any officer or employee of the Area Agency for the purpose of influencing the outcome of the procurement or securing the contract, an amendment to the contract, or favorable treatment concerning the contract, including the making of any determination or decision about contract performance. The Area Agency, in addition to any other rights or remedies, shall be entitled to recover exemplary damages in the amount of three times the value of the gratuity offered by the Contractor.

vi. Suspension or Debarment Either party may, by written notice, immediately terminate this contract if either party has determined to have been debarred, suspended or otherwise lawfully prohibited from participating in any public procurement activity, including but not limited to, being disapproved as a subcontractor of any public procurement unit or other governmental body. Submittal of an offer or execution of a contract shall attest that the Contractor is not currently suspended or debarred. If the contractor becomes suspended or debarred, the contract shall immediately notify the Area Agency in writing.

vii. Termination for Convenience The Area Agency reserves the right to terminate the contract, in whole or in part at any time, when in the best interests of the Area Agency without penalty or recourse. In addition, the Area Agency has the right to terminate the contract upon the Contractor's noncompliance which does or may jeopardize any Area Agency fund source requirements, standards, or expectations. Upon receipt of the written notice, the Contractor shall stop all work, as directed in the notice, notify all subcontractors of the effective date of the termination and minimize all further costs to the Area Agency. In the event of termination under this paragraph, all documents, data and reports prepared by the Contractor under the contract shall become the property of and be delivered to Area Agency upon demand. The Contractor shall be entitled to receive just and equitable compensation for work in progress, work completed and materials accepted before the effective date of the termination. The cost principles and procedures provided in A.A.C. R2-7-701 shall apply. The Contractor may terminate this contract per this provision by providing at least thirty (30) days written notice to the Area Agency President/CEO.

viii. Termination for Default

1. In addition to the rights reserved under the contract, Area Agency may terminate the contract in whole or in part due to the failure of the Contractor to comply with any term or condition of the contract, to acquire and maintain all required insurance policies, bonds, licenses and permits, or to make satisfactory progress in performing the contract. The Area Agency President/CEO shall provide written notice of the termination and the reasons for it to the Contractor.
2. Upon termination under this paragraph, all goods, materials, documents, data and reports prepared by the Contractor under the contract shall become the property of and be delivered to the Area Agency on demand.
3. This contract is voidable and subject to immediate termination by Area Agency upon the Contractor becoming insolvent or filing proceedings in bankruptcy or reorganization under the United States Code, or upon assignment or delegation of the contract and/or any rights there under without Area Agency's prior written approval.
4. Area Agency may, upon termination of this contract for default, procure, on terms and in the manner that it deems appropriate, materials or services to replace those under this contract. The Contractor shall be liable to the Area Agency for any excess costs incurred by the Area Agency in procuring materials or services in substitution for those due from the Contractor.
5. Area Agency may immediately terminate this contract if the Area Agency determines that the health or welfare or safety of service recipients is endangered.
6. For designated agencies, termination shall comply with the Older American's Act legislation.

ix. Continuation of Performance Through Termination Area Agency and the Contractor shall continue to perform, in accordance with the requirements of the contract, up to the date of termination, as directed in the termination notice.

x. Termination for Any Reason

1. In the event the contract is terminated, with or without cause, or expires, the parties, shall assist each other in the transition of services or eligible persons to other contractors. Such assistance and coordination shall include, but not be limited to, the forwarding of program and other records as may be necessary to assure the smoothest possible transition and continuity of services. The cost of reproducing and forwarding such records and other materials shall be borne by the Contractor. The Contractor must make provisions for continuing all management/administrative services until the transition of services or eligible persons is complete and all other requirements of this contract are satisfied.
2. In the event of early termination for any reason, any funds advanced to the Contractor shall be returned to Area Agency within ten (10) days after the date of termination of the contract or upon receipt of notice of termination of the contract, whichever is earlier.

k. Return: Upon termination of the agreement or amendment to remove any vehicle from the agreement, Contractor agrees to return vehicles, normal wear and tear excepted, as follows

i. Vehicles shall be in operating condition per all city, state, federal laws and standards.
ii. Vehicles may not be in such a condition inconsistent with norms based on the year and mileage of the vehicle.
iii. Vehicle may not have body or interior damage without written approval from Area Agency
iv. The condition the vehicles were received in will be considered when determining the vehicles have been returned in a condition that is consistent with the norms based on the year and mileage of the vehicle.
v. **Contractor shall remove any non-Area Agency signage** as may have been adhered to the vehicle with approval from Area Agency.

vi. **Listed below are additional requirements for a contractor to return a vehicle. These requirements take effect July 1, 2019 and thereafter and will be included In our Vehicle Leases between Contractor and the Area Agency on Aging.**

(a) REASON FOR THE RETURN REQUEST
(b) PHOTOS OF THE INTERIOR AND EXTERIOR OF THE VEHICLE
(c) THE VEHICLE MUST BE CLEAN INSIDE AND OUT WHICH INCLUDES THE VEHICLE'S INTERIOR UPHOLSTERY
(d) CURRENT MILEAGE
(e) MAINTENANCE RECORDS FOR THE PREVIOUS 12 MONTHS WHICH INCLUDES A LIST OF ANY LARGE REPAIRS MADE TO THE VEHICLE BY YOUR ORGANIZATION.

l. Non-Discrimination The Contractor shall comply with State Executive Order No. 99-4, which mandates that all persons, regardless of race, color, religion, gender, national origin, or political affiliation, shall have equal access to employment opportunities, and all other applicable Federal and state laws, rules and regulations, include the Americans with Disabilities Act and Title VI. The Contractor shall take positive action to ensure that applicants for employment, employees, and persons to whom it provides service are not discriminated against due to race, creed, color, religion, sex, national origin, or disability. (Federal regulations, State Executive Order #99-4)

2. INDEMNIFICATION
   a. Indemnification Public Agency Language Only: To the extent permitted by law, each party (as 'indemnitor') agrees to indemnify, defend, and hold harmless the other party (as 'indemnitee') from and against any and all claims, losses, liability, costs, or expenses (including reasonable attorney's fees) (hereinafter collectively referred to as 'claims') arising out of bodily injury of any person (including death) or property damage but only to the extent that such claims which result in vicarious/derivative liability to the indemnitee are caused by the act, omission, negligence, misconduct, or other fault of the indemnitor, its' officers, officials, agents, employees, or volunteers.
   b. Indemnification Clause To the extent permitted by law the parties to this contract agree that the Area Agency, State of Arizona and the Department of Economic Security (DES) shall be indemnified and held harmless by Contractor for the vicarious liability of the Area Agency and/or State as a result of entering into this contract. However, the parties further agree that the Area Agency, State of Arizona and DES shall each be responsible for its own negligence. Each party to this contract is responsible for its own negligence. *This indemnity shall not apply if the Contractor or sub-contractor(s) is/are an agency, board, commission or university of the State of Arizona.*

3. INSURANCE
   a. Insurance Requirements Contractor and subcontractors shall procure and maintain until all of their obligations have been discharged, including any warranty periods under this Contract or, are satisfied, insurance against claims for injury to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or subcontractors.

      The *insurance requirements* herein are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract. The Area Agency and State of Arizona, in no way warrants that the minimum limits contained herein are sufficient to protect the Contractor from liabilities that might arise out of the performance of the work under this contract by the Contractor, its agents, representatives, employees or subcontractors, and Contractor is free to purchase additional insurance.
   b. Additional Insured Requirements For the purposes of this contract, the identified agencies and specific language shall be identified as additional insured for all contract required insurance policies. The policies shall include or be endorsed to include the following provisions:

i. Required Agencies
√ Area Agency on Aging, Region One Incorporated
√ State of Arizona and Department of Economic Security
√ Bridgeway Health Solutions
√ United Health Care
n/a Maricopa County Public Health Department
√ Mercy Care
n/a Total Transit Enterprises, LLC / Total Transit, Inc. / Veyo, LLC

ii. The policy shall be endorsed to include the following Additional Insured language: *"The Additional Insured agencies, their departments, agencies, boards, commissions, universities and its officers, officials, agents, and employees shall be named as additional insured with respect to liability arising out of the activities performed by or on behalf of the Contractor and including involvement of owned, leased, hired, or borrowed vehicles by the Contractor".*

iii. The Additional Insured shall be covered to the full limits of liability purchased by the Contractor, even if those limits of liability are in excess of those required by this contract.

iv. The Contractor's insurance coverage shall be primary insurance with respect to all other available sources.

v. Coverage provided by the Contractor shall not be limited to the liability assumed under the indemnification provisions of this contract.

vi. The Additional Insured endorsement(s), where applicable to liability policies required under these provisions, and which extend policy rights to the Area Agency, shall insure only the vicarious liability to the extent stated in the Indemnification Clause.

c. Minimum Scope and Limits of Insurance Contractor shall provide coverage with limits of liability not less than those stated below.

i. Commercial General Liability – Occurrence Form Policy shall include bodily injury, property damage, personal injury and broad form contractual liability coverage.

- General Aggregate $3,000,000
- Products – Completed Operations Aggregate $1,000,000
- Personal and Advertising Injury $1,000,000
- Blanket Contractual Liability – Written & Oral $1,000,000
- Fire Legal Liability $ 50,000
- Each Occurrence $1,000,000

1. The policy shall be endorsed to include coverage for sexual abuse and molestation.
2. Policy shall contain a waiver of subrogation against all agencies identified as Additional Insureds, their departments, agencies, boards, commissions, universities and its officers, officials, agents, and employees for losses arising from work performed by or on behalf of the Contractor. This requirement may be satisfied with a policy combining General and Professional Liability, provided that the General Liability section of the policy is written on an occurrence basis, and includes coverage for contractual liability.

ii. Business Automobile Liability Bodily Injury and Property Damage for any owned, hired, leased, and/or non-owned vehicles used in the performance of this Contract.
Combined Single Limit (CSL) $1,000,000

1. The policy shall be endorsed to include the following additional insured language: *The Additional Insured shall be named as additional insured with respect to liability arising out of the activities performed by or on behalf of the Contractor, involving automobiles owned, leased, hired or borrowed by the Contractor.*
2. Policy shall contain a waiver of subrogation against the Additional Insured, its departments, agencies, boards, commissions, universities and its officers, officials, agents, and employees for losses arising from work performed by or on behalf of the Contractor.

3. This section, Business Automobile Liability, shall not be applicable in the event the Contractor (or its subcontractors) does not utilize a vehicle in any manner in the performance of this contract or if the utilization is used only for commuting purposes. In the event the Contractor (or its subcontractors) subsequently utilizes any vehicle in the performance of the contract or utilizes it for other than commuting purposes, this section, Business Automobile Liability, shall be fully applicable, effective the date the utilization is changed.

iii. Workers Compensation and Employers' Liability

1. Workers' Compensation — Statutory
2. Employers' Liability
   a. Each Accident — $ 500,000
   b. Disease – Each Employee — $ 500,000
   c. Disease – Policy Limit — $1,000,000
3. Policy shall contain a waiver of subrogation against Additional Insureds, their departments, agencies, boards, commissions, universities and its officers, officials, agents, and employees for losses arising from work performed by or on behalf of the Contractor.
4. This requirement shall not apply to: Separately, EACH contractor or subcontractor exempt under A.R.S. §23-901, AND when such contractor or subcontractor executes the appropriate waiver (Sole Proprietor/Independent Contractor) form.

iv. Professional Liability (Errors and Omissions Liability)

1. Requirements as follows
   a. Each Claim — $1,000,000
   b. Annual Aggregate — $2,000,000
2. In the event that the professional liability insurance required by this Contract is written on a claims-made basis, Contractor warrants that any retroactive date under the policy shall precede the effective date of this Contract; and that either continuous coverage will be maintained or an extended discovery period will be exercised for a period of two (2) years beginning at the time work under this Contract is completed.
3. The policy shall cover professional misconduct or lack of ordinary skill for those positions defined in the Scope of Work and Service Specifications, work definitions, and other performance statements of this contract.

v. Fidelity Bond or Crime Insurance

1. The bond or policy shall be issued with minimum limits of $100,000.
2. The bond or policy shall include coverage for all directors, officers, agents and employees of the Contractor.
3. The bond or policy shall include coverage for third party fidelity.
4. The bond or policy shall include coverage for theft and mysterious disappearance.
5. The bond or policy shall contain no requirement for arrest and conviction.
6. The bond or policy shall cover loss outside the premises of the Named Insured.

d. Notice of Cancellation Each insurance policy required by the insurance provisions of this contract shall provide the required coverage and shall not be suspended, voided, canceled, or reduced in coverage or in limits except after thirty (30) days prior written notice has been given to the Area Agency. Such notice shall be sent directly to the Area Agency Contracts Department and shall be sent by certified mail, return receipt requested.

e. Acceptability of Insurers Insurance is to be placed with duly licensed or approved non-admitted insurers in the state of Arizona with an "A.M. Best" rating of not less than A- VII. The Area Agency in no way warrants that the above-required minimum insurer rating is sufficient to protect the Contractor from potential insurer insolvency. If the Contractor utilizes the Social Service Contractors Indemnity Pool (SSCIP) or other approved insurance pool for insurance coverage, SSCIP or the other approved insurance pool is exempt from the A.M. Best's rating requirements listed in this contract. If the Contractor or subcontractor chooses to use SSCIP, AMRRP, or another approved insurance pool as its

insurance provider, the contract/subcontract would be considered as meeting the insurance requirements relating to the A.M. Best rating requirements. Contractors or subcontractors submitting certificates of Insurance identifying SSCIP, AMRRP, or another approved insurance pool will be considered as meeting the insurance requirements including those related to sexual abuse and molestation.

f. Verification of Coverage
    i. Contractor shall furnish the Area Agency with certificates of insurance (ACORD form or equivalent form approved by Area Agency) as required by this contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.
    ii. All certificates and endorsements are to be received and approved by the Area Agency before work commences. Each insurance policy required by this contract must be in effect at or prior to commencement of work under this contract and remain in effect for the duration of the project. Failure to maintain the insurance policies as required by this contract, or to provide evidence of renewal, is a material breach of contract.
    iii. All certificates required by this Contract shall be sent directly to Area Agency Contracts Department. The Area Agency contract number and contract description shall be noted or referenced on the certificate of insurance. The Area Agency reserves the right to require complete, certified copies of all insurance policies required by this Contract at any time**.**

g. Subcontractors Contractors' certificate(s) shall include all subcontractors as insureds under its policies or Contractor shall furnish to the Area Agency separate certificates and endorsements for each subcontractor. All coverage for subcontractors shall be subject to the minimum requirements identified within this contract.

h. Approval Any modification or variation from the Insurance Requirements in this contract shall be made by the Area Agency, whose decision shall be final. Such action will not require a formal contract amendment, but may be made by administrative action.

i. Exceptions
    i. In the event the Contractor or subcontractor(s) is/are a public entity, then the Insurance requirements shall not apply. Such public entity shall provide a Certificate of Self-Insurance. If the Contractor or subcontractor(s) is/are a State of Arizona agency, board, commission, or university, none of the above shall apply.
    ii. In the event that Contractor determines that it may not be able to comply fully with the insurance requirements set forth in this section and contract, the Contractor may request that the insurance requirements be modified pursuant to paragraph ***3.h. Approval of this section***, provided that such request be delivered in writing to Area Agency at least ten (10) days prior to contract execution. Contractor shall include with such request Contractor's justification for the modification with supporting documentation.
        1. As provided in paragraph ***3.h. Approval of this section***, the Area Agency President/CEO shall decide whether such modification may be permitted.
        2. Modifications that are approved will be done so on a case-by-case basis and shall not affect the insurance requirements of other Contractors for whom modifications have not been approved. If a Contractor's request has not been approved or a Contractor fails to deliver its request prior to the applicable deadline, then the Contractor shall be required to comply fully with the insurance requirements set forth fully in this ***Section 3 Insurance***.

4. VEHICLE SERVICES AND OPERATIONS
    a. Services This Vehicle Lease Agreement, the terms and conditions of this Agreement are specifically related to and legally binding with the Area Agency's Service Contract with the Contractor as specified on the Signature page of this agreement. This lease of vehicle(s) action is intended solely for and limited to the purpose of providing services as specified in the Service Contract.
    b. Facility(s) Services are limited to the sites as identified in the Service Contract Facility Location page.

c. Vehicle Operation and Maintenance
    i. Liabilities
        1. The Contractor is responsible for all liabilities in the operations, storage, use, or other activities involving each leased vehicle. Area Agency is not responsible for any losses or injuries caused by the use of the vehicle.
        2. The Contractor shall be liable for all fines, parking violations and any fines imposed by any governmental authority upon the vehicle or operator thereof during the term of this agreement.
        3. The Contractor shall not permit the vehicle to be used in violation of any federal, state, municipal statutes, laws, ordinances, rules or rules or regulations, or contrary to the provision of any applicable insurance policy.
        4. The Contractor shall keep the Area Agency fully informed of all claims, suits or proceeding arising out of any accidents or incidents involving each leased vehicle.
        5. The Contractor shall forward to the Area Agency a copy of every demand, notice summons or process received in connection with any and all claims, suits or other legal proceedings resulting from an incident/accident involving any leased vehicle.
    ii. Operation Expenses The Contractor is solely responsible for costs associated with the operation of the vehicle. Area Agency bears no responsibility for costs associated with the operations, staffing, maintenance, or repair of the leased vehicle(s). In the event the Contractor is unable to maintain the operational costs of the vehicle, this Agreement will be terminated.
    iii. Maintenance Contractor is responsible to:
        1. Maintain the vehicle in safe and manufacturer standard of operation at all times. A vehicle may not be parked, inoperable through the duration of the agreement.
        2. Abide by the manufacturer's warranty and recommended schedule of maintenance, as a minimum.
        3. Keep written documentation of completed maintenance to minimally include a log of date, vendor, description of repairs/maintenance, cost and mileage.
        4. Clean the vehicle regularly.
        5. Obtain, if applicable to the vehicle, an annual Federal Inspection and submit documentation of the Inspection to Area Agency.
    iv. Alterations of Vehicle Upon prior approval by Area Agency, the Contractor shall have the opportunity to display signage of a removable nature on the vehicle. Contractor will make no other changes to the vehicle without prior written consent of the Area Agency. The Contractor shall not make any alterations, additions, or improvements to the equipment, which detract from its economic value or functional utility.
    v. Accidents / Damage In the event the leased vehicle is involved in an accident, damage, or vandalism, Contractor shall make all repairs and restorations within a reasonable period of time, not to exceed three (3) months. Contractor shall be responsible for all costs incurred in repair of leased vehicle including the deductible amounts stated in the insurance policy.
d. Personnel Requirements Contractor shall specifically certify staff as competent to operate vehicles as required by law and the following minimum standards:
    i. All equipment operators will have a valid Arizona driver's license, a copy which will be on file with the Contractor and which may subject to inspection by the Area Agency. If a CDL (Commercial Driver's License) is required for equipment operation it will also be required to be on file for inspection.
    ii. Obtain motor vehicle report and evaluate the report as acceptable prior to commencing driving.
    iii. Driver training, supervision, and employment. Volunteer drivers must meet all these requirements and any other requirements as set for paid drivers.
e. Evaluation & Monitoring: Area Agency may and the Contractor shall cooperate in the monitoring, assessment, and evaluation of contract services or transportation activities performed by the identified vehicle(s).

f. Reporting Requirements

i. Semi-Annual Maintenance Report Contractor shall provide written documentation of completed maintenance to minimally include a log of date, vendor, description of repairs/maintenance, cost and mileage on July 15th and January 15th.

ii. Accidents / Damage

1. report the incident to the Area Agency Vehicle Fleet Representative within twenty-four (24) hours via telephone or email;
2. submit a written report of the incident to the Area Agency within three (3) days; and
3. submit other documentation, reports, evidence as required or requested by Area Agency.

COMMUNICATION PAGE

(not an integral page of the Contract)

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.D. Approval of the Friends of the Buckeye Public Library and City of Buckeye Memorandum of Understanding.
DATE PREPARED: 08/12/21	**DISTRICT NO.:** All
STAFF LIAISON: Jana White, Library Manager, jwhite@buckeyeaz.gov, (623) 349-6321	
DEPARTMENT: Community Services	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on the Memorandum of Understanding (MOU) between the City of Buckeye and the Friends of the Buckeye Public Library (FBPL), an Arizona non-profit corporation, relating to each party's mutually beneficial support of the other, and authorizing the City Manager to execute and deliver said memorandum on behalf of the City.

RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

ADDITIONAL RELEVANT GOALS:
GOAL 1: Fiscal Wellness and Financial Flexibility and Accountability

SUMMARY

PROJECT DESCRIPTION:

The Friends of the Buckeye Public Library (FBPL) was formed on March 22, 1991 and its mission is to enhance early literacy programs, activities, events and special projects within the Buckeye Public Library System (BPLS) through fundraising efforts and financial contributions. This agreement will define the scope of services for each party.

BENEFITS:

This mutually beneficial memoradum will support early literacy programs, activities, events and special projects within the Buckeye Public Library System. This also creates a formal partnership between the City of Buckeye and the Friends of the Buckeye Public Library with clear expectations of scope and terms.

FUTURE ACTION:
None. This MOU, if approved by Council, shall be effective as of the Effective Date and, unless

terminated earlier pursuant to the provisions of Paragraph 4 of the MOU, the MOU shall remain in effect unless it is modified by mutual written agreement by and between FBPL and the City.

FINANCIAL IMPACT STATEMENT:

Section 2.B outlines that the FBPL's annual expenditure in support of the BPLS must exceed the equivalent rental value the City would have charged the FBPL had it used the City's facilities at the City's established fee for rentable facilities.

CURRENT FISCAL YEAR TOTAL COST:
N/A

BUDGETED:
No

FISCAL YEAR:
FY 21-22

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
Friends of Buckeye Public Library MOU.pdf

MEMORANDUM OF UNDERSTANDING
BETWEEN
CITY OF BUCKEYE
AND
FRIENDS OF THE BUCKEYE PUBLIC LIBRARY

THIS MEMORANDUM OF UNDERSTANDING ("MOU") between the CITY OF BUCKEYE, an Arizona municipal corporation, hereafter called "City," and FRIENDS OF THE BUCKEYE PUBLIC LIBRARY, an Arizona non-profit corporation, hereafter called "FBPL," is made and entered into as of the 17th day of August, 2021 ("Effective Date").

RECITALS

WHEREAS, FBPL was formed on March 22, 1991. FBPL's mission is to enhance early literacy programs, activities, events, and special projects within the Buckeye Public Library System (BPLS) through fundraising efforts and financial contributions.

WHEREAS, City recognizes FBPL as a non-profit organization dedicated to assisting the City through its fundraising efforts and financial contributions supporting BPLS programs, events, and special projects.

NOW, THEREFORE, in consideration of the premises and the mutual promises herein contained, CITY and FBPL agree as follows:

1. Recitals. The recitals set forth above are incorporated in this MOU as if fully set forth herein.

2. Scope of Services. City and FBPL agree that:

   A. City shall:

      1. Subject to availability in the City's sole discretion, and in exchange for the benefits provided by FBPL as set forth in Section 2(B) of this MOU, coordinate FBPL's no-cost use of meeting rooms in City facilities for FBPL's bi-monthly Executive Board meetings, Annual Membership meeting, and monthly committee meetings. FBPL must request dates and times with the BPLS to reserve meeting space.

      2. Provide to FBPL a priority list at the beginning of each fiscal year that indicates the anticipated FBPL support needed.

      3. If requested in advance, provide FBPL with booth space at City-sponsored events at no cost in exchange for the benefits provided by FBPL as set forth in Section 2(B) of this MOU.

      4. Consider other fundraising opportunities as requested by FBPL; provided,

however, that any fundraising opportunities so requested by FBPL will, in the City's sole discretion, comply with all applicable laws and City rules, regulations, and policies.

5. Provide bookstore space (252 sq. ft.), adequate shelving, volunteer desk, material storage, and custodial service for the bookstore at the Coyote Branch Library located at 21699 W. Yuma Road, Buckeye, Arizona.

6. Provide storage space and shelving space at the Downtown Library located at 310 N. 6th Street, Buckeye, Arizona, for FBPL to house materials for sale.

7. Make available to FBPL materials donated to BPLS for which BPLS has no use, for FBPL to use, distribute, and dispose of as it deems appropriate in support of BPLS.

8. Make materials removed from BPLS's collection available to FBPL for FBPL to resell the materials and use the proceeds therefrom to benefit BPLS through sponsored programs or special projects. For purposes of this section, "removed" means permanently taken out from and no longer circulated in BPLS's collection.

9. Place upon the City's "Library" webpage of its website a link to FBPL's website, along with information about FBPL and its various fundraising projects.

10. Subject to availability in the City's sole discretion, provide marketing for FBPL in the City's Community Services and other marketing publications at no cost to FBPL.

11. Subject to availability in the City's sole discretion, and in exchange for the benefits provided by FBPL as set forth in Section 2(B) of this MOU, provide a City facility for FBPL fundraising events at no rental fee; provided, however, that any fundraising opportunities so requested by FBPL will, in the City's sole discretion, comply with all applicable laws and City rules, regulations, and policies.

12. Promote FBPL fundraising efforts and publicly recognize FBPL's financial support of the Buckeye Public Library System.

B. FBPL shall:

1. Raise and expend private funds each fiscal year ("Annual Support") on goods or services to assist and support BPLS programs, events, and special projects.

   a. Beginning January 1, 2021, the Annual Support FBPL expends

supporting BPLS must exceed the equivalent rental value City would have charged FBPL were it to use BPLS facilities at the City's established rentable facility fees. This amount may change yearly depending on the number of times FBPL uses BPLS facilities in a given year.

2. Maintain and operate the bookstore (252 sq. ft.) located in the Coyote Branch Library, 21699 W. Yuma Road, Buckeye, Arizona, during City-approved scheduled hours of operation using trained FBPL volunteers. For purposes of this section, "maintain and operate" means to cause to function in an orderly manner commensurate with its purpose.

3. Organize and display materials for sale in a condition acceptable to the City on the shelving units made available to FBPL at the City's Downtown Library located at 310 N. 6th Street in Buckeye, Arizona, using trained FBPL volunteers.

4. Provide and conduct adequate fundraising activities or events to obtain the funds needed to ensure FBPL's ongoing operation and its ability to cover the Annual Support expended to fulfill its mission.

5. Provide material donations approved by the City and de-selected materials from the BPLS for resale purposes that will directly benefit the BPLS sponsored programs and special projects.

6. Provide FBPL trained volunteers and promotions to successfully conduct a minimum of two annual fundraising activities or events.

7. Clean or repair, to a condition acceptable to the City, any City facility after FBPL's use thereof and facilitate and reimburse the City for any required cleaning, repairs, or damages caused by such use. The City will, in the City's sole discretion, perform any necessary repairs or cleaning to the facilities used by FBPL, and FBPL will fully reimburse the City for such repairs or cleaning within 10 days of the date of the City's invoice for same.

8. Carry insurance coverage and provide proof of insurance with coverage amounts and types and endorsements evidencing the following:

   a. Policy shall endorse the City of Buckeye, its officers, agents, and employees as "additional insured" in relation to the activities performed in/on City property.

   b. General liability insurance, including personal injury, in the amount of One Million Dollars ($1,000,000.00) combined single limit per occurrence, including bodily injury, personal injury, and property damage.

9. Indemnify, defend, and hold harmless the City (including its elected officials, officers, agents, volunteers, and employees) from and against any and all claims, demand, damages, liabilities, costs, and expenses (including court costs and attorney's fees) resulting from or arising out of the performance of this MOU.

10. Provide to the City an annual financial report prepared by the Treasurer of FBPL.

11. Provide BPLS one (1) seat on the FBPL Executive Board, which City may fill with a staff person selected at City's discretion.

12. Not engage in political activities. Such activities include, but are not limited to, displaying or allowing to be used, in conjunction with this Agreement or while otherwise conducting business on City property or at City-sponsored events under the name of Friends of the Buckeye Public Library, any recognition, signage, branding, publicity, or advertising containing political campaign speech, or speech that supports or opposes or appears to support or oppose a ballot measure or initiative, or refers to any person in or campaigning for public office.

3. MOU Subject to Policies and Requirements of the City. This MOU shall be subject to any and all policies, rules, and regulations of the City.

4. Termination. Either party may terminate this MOU by providing prior written notice of their intention to terminate to the other party not less than 90 days prior to the actual termination.

5. Term. This MOU shall be effective as of the Effective Date herein and, unless terminated earlier pursuant to the provisions of Paragraph 4 of this MOU, this MOU shall remain in effect unless it is modified by mutual written agreement by and between FBPL and the City.

6. Designated Representatives. For purposes of administering this MOU, the FBPL President and the City's Community Services Department Director, or their respective designees, shall act as representatives for their respective organizations.

7. Notices. Notices to be provided to the parties pursuant to this MOU shall be in writing and sent to the following:

City: City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326
Attention: Roger Klingler, City Manager

FBPL: Friends of the Buckeye Public Library
310 North Sixth Street
Buckeye, Arizona 85326
Attention: Deborah Melfi, President

8. Assignment. This MOU shall not be assigned or subcontracted in whole or in part without the prior written consent of the City.

9. Modifications to MOU. Any amendment, modification, or variation from the terms of this MOU shall be in writing and shall be effective only after approval of all parties signing the original MOU.

10. Cancellation. This MOU is subject to cancellation pursuant to the provisions of A.R.S. § 38-511.

11. Force Majeure. Neither party shall be responsible for delays or failures in performance resulting from acts beyond their control. Such acts shall include, but not be limited to, acts of God, riots, acts of war, epidemics, governmental regulations imposed after the fact, fire, communication line failures, power failures, or earthquakes.

12. Counterpart Signatures. This MOU may be executed in one or more counterparts, and each of which, when executed and delivered, shall be an original, and each such counterpart shall, when combined with all other such counterparts, constitute the original MOU.

13. Entire Agreement. This MOU constitutes the entire agreement between the City and FBPL and supersedes and replaces any and all prior agreements, verbal or written.

14. Signatures. The individuals executing this MOU represent and warrant that they have the right, power, legal capacity, and authority to enter into and to execute this MOU on behalf of their respective legal entities of FBPL and the City. This MOU shall inure to the benefit of and be binding upon the parties hereto and their respective successors and assigns.

(SIGNATURES ON THE FOLLOWING PAGE)

CITY OF BUCKEYE,
an Arizona municipal corporation

By:_____
Eric W. Orsborn, Mayor

Date: August 17, 2021

ATTEST:

By:_____
Lucinda J. Aja, City Clerk

APPROVED AS TO FORM:

By:_____
Shiela B. Schmidt, City Attorney

FRIENDS OF THE BUCKEYE PUBLIC LIBRARY, an Arizona nonprofit corporation

By: Deborah Melfi
Deborah Melfi, President

Date: Jul 29, 2021

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.E. Emergency Backup Generators Citywide
DATE PREPARED: 08/12/21	**DISTRICT NO.:** No. 2
STAFF LIAISON: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225,	
DEPARTMENT: Construction and Contracting	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council) Council to take action on the Construction Contract (No. 2021036) between the City of Buckeye, an Arizona municipal corporation, and LightDay Solar, Inc., an Arizona corporation for labor, materials, equipment and services required for the purchase and installation of Emergency Generators at six (6) locations throughout the city of Buckeye, and authorizing the Mayor to execute and deliver said contract on behalf of the city.

RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

ADDITIONAL RELEVANT GOALS:
GOAL 1: Fiscal Wellness and Financial Flexibility and Accountability

SUMMARY

PROJECT DESCRIPTION:
As part of the Capital Improvement Program, emergency backup generators will be installed at six (6) locations citywide designated as Emergency Shelters by the Red Cross. The emergency generators would be used to provide backup power to the facilities in the event of a power outage. During emergencies and disasters, residents in need are asked to go to these facilities for shelter, food and water. Emergency generators will allow the City to continue operating the facilities as a shelter, even in the event of a power outage. In an event of an emergency, the City could continue providing vital services to residents without loss of revenue.

The Construction and Contracting Division issued an Invitation for Bid on May 4, 2021. A virtual Pre-bid meeting was held on May 18, 2021 with seven (7) people in attendance. Bids were due on June 7, 2021 at 3:00 p.m. and five (5) bids were received as follows:

- **LightDay Solar, Inc. $1,298,592.00**
- Hawkeye Electric, Inc. $1,361,560.00
- Standard Construction Company, Inc. $1,591,070.81
- A J P Electric, Inc. $1,633,300.00
- Eiffel Construction & Engineering, LLC $2,172,794.00

After review of the bids for responsive and reasonableness, the lowest bidder was determined to be LightDay Solar, Inc.

BENEFITS:
Placing emergency generator in designated locations would allow the City to continue operating and providing vital services to residents in the event of power outages without loss of revenue.

FUTURE ACTION:
None.

FINANCIAL IMPACT STATEMENT:
This project will be paid by the current years' Capital Improvement Budget.
Munis Project Ledger CIP 2020026.

CURRENT FISCAL YEAR TOTAL COST:
$1,298,592.00

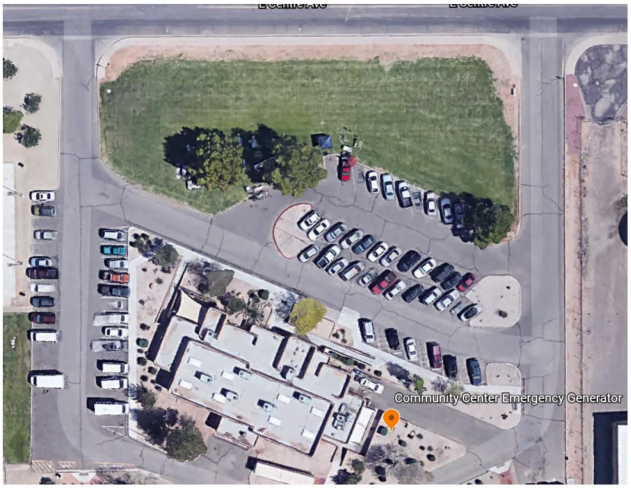
BUDGETED:
Yes

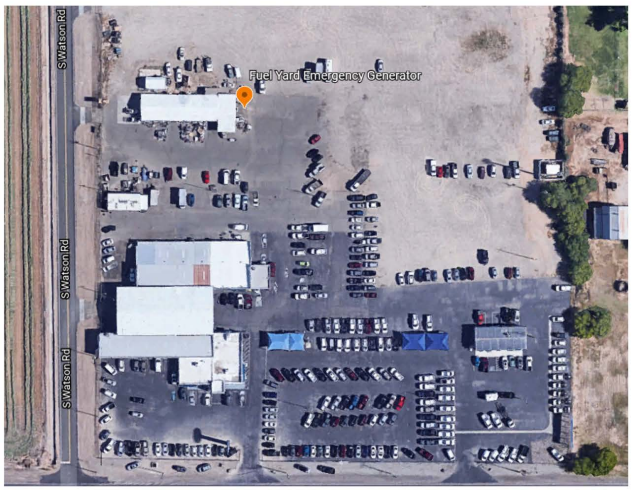
FISCAL YEAR:
FY2022

FUND/DEPARTMENT:
50211000-543080 (CIP 2020026)

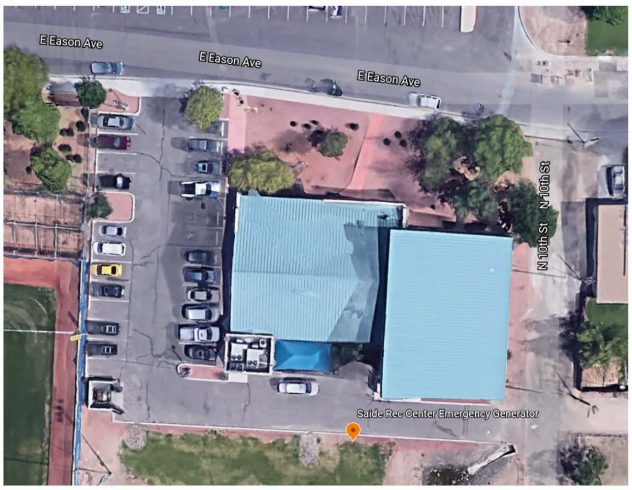
Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
Emergency Generator Locations.pdf
CAR.pdf
Lightday Solar, Inc. Contract No. 2021036.pdf


Yuma Rd
S Dean Rd
Coyote Branch Library Emergency Generator
S Dean Rd


Community Center Emergency Generator


S Watson Rd
Fuel Yard Emergency Generator
S Watson Rd
S Watson Rd


E Arizona Eastern Ave
Fleet Emergency Generator
N 4th St
N 4th St
N 4th St
Buckeye Canal Rd
Buckeye Canal Rd


E Eason Ave
E Eason Ave
E Eason Ave
N 10th St
Sade Rec Center Emergency Generator


E Roosevelt Ave
E Roosevelt Ave
City Hall Emergency Generator
N 6th St

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.C. Emergency Backup Generators Citywide
DATE PREPARED: 06/14/21	**DISTRICT NO.:** No. 2
STAFF LIAISON: Chris Williams, Construction/Procurement, (623) 349-6225, cwilliams@buckeyeaz.gov	
DEPARTMENT: Construction and Contracting	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

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After review of the bids for responsive and reasonableness, the lowest bidder was determined to be LightDay Solar, Inc.

BENEFITS:
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FUTURE ACTION:
None.

FINANCIAL IMPACT STATEMENT:
This project will be paid by the current years' Capital Improvement Budget.
Munis Project Ledger CIP 2020026.

CURRENT FISCAL YEAR TOTAL COST:
$1,298,592.00

BUDGETED:
Yes

FISCAL YEAR:
FY2022

FUND/DEPARTMENT:
50211000-543080 (CIP 2020026)

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
Emergency Generator Locations.pdf

CONSTRUCTION CONTRACT
BETWEEN
CITY OF BUCKEYE
AND
LIGHTDAY SOLAR, INC.

Contract No. 2021036

THIS CONTRACT is entered into by and between the CITY OF BUCKEYE, an Arizona municipal Corporation ("City") and Lightday Solar, Inc., an Arizona corporation ("Contractor"). The terms of this Contract are to be construed consistently with the other Contract Documents enumerated in Article 1 of the General Conditions of the Construction Contract.

In consideration of the mutual promises of the parties, the City and the Contractor agree as follows:

1. THE WORK: The Contractor shall furnish all labor, materials, equipment and services required to purchase and install Emergency Generators at six locations throughout the City of Buckeye, in accordance with Exhibit B, Plans and specifications attached hereto.

2. CONTRACT TIME: The Contractor shall commence the Work only if and when directed in a written Notice to Proceed signed by the City. The Work shall be substantially completed within **Two Hundred Seventy (270) calendar days**. In view of the difficulty or impossibility of determining the City's damages from delay, should the Contractor fail to achieve Substantial Completion by that date, as extended by any City approved Change Orders, the Contractor agrees to pay and will pay to City, in addition to all other sums pursuant to the Contract Documents, the sum of $710.00 for each calendar day of delay as liquidated damages for such delay and not as a penalty. This sum may be withheld from the balance of the Contract Price as it becomes due. Should liquidated damages exceed the Contract Price due or to become due, then the Contractor shall pay the City the difference within 3 days of receipt of written demand.

3. CONTRACT PRICE: Subject to increases and decreases for Change Orders in accordance with the Contract Documents, the City shall pay to the Contractor the following Contract Price, in progress payments as provided in the Contract Documents: **ONE MILLION, TWO HUNDRED NINETY EIGHT THOUSAND, FIVE HUNDRED NINETY TWO DOLLARS AND NO CENTS** ($1,298,592.00).

4. SUPPLEMENTAL TERMS AND CONDITIONS: The following supplemental terms and conditions and/or documents are part of this Contract:

A. General Conditions of the Construction Contract.
B. Plans & Specifications.
C. Scope of Work.
D. Bid Form.
E. Payment and Performance Bonds.

IN WITNESS WHEREOF, the City of Buckeye by its Mayor and City Clerk have hereunto subscribed their names this _____.

CITY OF BUCKEYE:

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda Aja, City Clerk

RECOMMENDED:

CA Williams
_____
Christopher A. Williams, Manager
Construction & Contracting Division

APPROVED AS TO FORM:

_____
City Attorney

CONTRACTOR:
LIGHTDAY SOLAR, INC.

Hyeonmoo Lee
_____
Hyeonmoo Lee, CEO

Adobe Sign Transaction Number: CBJCHBCAABAAdPIOfX2JSn-YKedZDKUbwU3bj_U5So5h

EXHIBIT A
General Conditions

GENERAL CONDITIONS
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GENERAL CONDITIONS

ARTICLE 1
GENERAL DEFINITIONS

"Addenda" means clarifications or changes in the Work provided to bidders in writing prior to the public bid on the Contract.

"Contract Documents" or "Contract" means the Construction Contract between City and Contractor, the General Conditions of the Construction Contract, any Supplemental Conditions of the Construction Contract, the Drawings, the Specifications, the Performance and Payment Bonds, the Project Manual, Addenda and Modifications.

"Date of Substantial Completion" shall be the date certified by the City that the work is in the Condition defined herein as substantial completion.

"Day" means calendar day unless specifically otherwise provided herein or by law.

"Modifications" means Change Orders signed by the City, or other written amendments signed by both the City and the Contractor at or after the execution of the Contract, or the City's written interpretations or directions for minor changes in the Work. A “minor change” is defined as one having no impact on cost or time or the City’s approved design intent, as determined by the City.

"Project" means all components of the improvements to be constructed for the City, regardless of whether the Work is all or only a part.

"Project Manual" means the written volume so titled which includes the bid documents, sample forms, specifications, and description of the project.

"Substantial Completion" means the Contractor's work is sufficiently complete in accordance with the Contract Documents so that the City can occupy or utilize the work or designated portion thereof for the use for which it is intended.

"Work" consists of all labor (including supervision), materials, equipment, supplies and other items reasonably required to construct all or a portion of the Project according to the Contract Documents.

ARTICLE 2
INTENT

A. The Contract represents the entire and integrated agreement between the City and the Contractor, and it supersedes all prior oral or written negotiations, representations or agreements. The Contract may only be changed by written modifications, and the Contractor understands and agrees that if the Contractor proceeds with any work upon verbal request only, Contractor is agreeing by his conduct that such work, or change in the work, constitutes a minor change.

B. The Contract Documents are to include all items reasonably necessary to construct the Work, expressly or by inference. Words and abbreviations which have well-known technical or trade meanings are used in the Contract Documents in accordance with such recognized meanings.

ARTICLE 3
CONTRACTOR

A. The Contractor is the individual or legal entity identified in the Contract Documents who is licensed to perform the Work under the laws of the State of Arizona. The Contractor shall only use duly licensed Subcontractors in connection with the Work, subject to the provisions for City approval contained in the Contract Documents.

ARTICLE 4
OTHER CONTRACTORS AND COOPERATION

A. The City reserves the right to award other contracts related to the Project, or to perform certain work itself. Such other work may or may not be known to the City or disclosed to the Contractor prior to bidding this project. The Contractor shall afford the City and other contractors reasonable opportunity for the introduction and storage of their materials and equipment and the execution of their work, and shall properly coordinate its Work with theirs in such manner as the City may direct. The Contractor shall also assure at its own cost reasonable access of other contractors to the site and their work.

B. Upon request of the Contractor, the City will provide the Contractor with a copy of all plans, specifications, schedules and other data relating to other contracts or work. The Contractor shall thoroughly examine these documents and shall within three (3) days of completing such examination notify the City in writing of any conflicts with the Work to be performed by the Contractor. In no event shall such notice be given so late as to interfere with or delay the work to be performed by the Contractor. Failure of the Contractor to request, review, or provide written notice as provided above shall constitute a waiver of any objections or claims the Contractor may have as a result of the necessity to coordinate the Contractor's work with other activities.

C. Should the Contractor sustain any damage through any act or omission of any other contractor, Contractor shall have no claim or cause of action against the City for such damage and hereby waives any such claim. The Contractor does not waive any claim or cause of action against any other contractor or subcontractor to recover any and all damages sustained by reason of the acts or omissions of such other contractor. The phrase "acts or omissions" as used in this section shall be defined to include, but not be limited to, any reasonable delay on the part of any such other contractor, whether due to negligence, gross negligence, inadvertence or any other cause.

D. Should the Contractor cause damage to the work or property of any other contractor or of the City, the Contractor shall upon receiving due notice, promptly attempt to settle with such other contractor by agreement, repair or otherwise to resolve the dispute. If such separate contractor sues or initiates a proceeding against the City on account of any damage alleged to have been caused by the Contractor, the City shall notify the Contractor who shall, to the furthest extent permitted by law, indemnify and hold harmless for, from, and against defend such proceedings, and if any judgment or award against the City arises there from the Contractor shall pay or satisfy it and shall reimburse the City for all attorney's fees and court or other costs which the City has incurred.

ARTICLE 5
SITE CONDITIONS AND ENVIRONMENTAL MATTERS

A. The Contractor shall thoroughly acquaint himself with all available information concerning the conditions of the Work and is responsible for correctly and fully estimating the difficulty and cost of successfully performing the Work.

B. The Contractor agrees that it has thoroughly examined the site, plans and specifications, boring data and all other soils information and as-built data made available and by submission of the bid herein avows that it has satisfied itself as to the character, quality and quantity of surface and subsurface materials or existing obstacles to be encountered. The Contractor acknowledges that boring data and other soils information and as-built data made available is only a general indication of materials and/or conditions likely to be found adjacent to holes bored or in existing structures or facilities or other areas. If the Contractor determines that the information is erroneous, inadequate or ambiguous, it shall immediately report its conclusions to the City in writing. If the Contractor determines that the information is erroneous, inadequate, or ambiguous, and after reporting its conclusions to the City, remains dissatisfied or uninformed, the Contractor shall refrain from submitting a bid, or if the Contractor does submit a bid, the Contractor shall be deemed to have waived any claim it may have as the result of the alleged erroneous, inadequate or ambiguous information.

C. The Contractor shall immediately, and before such conditions are disturbed, notify the City in writing of:

1. Subsurface or latent physical conditions encountered at the site which differ materially from those indicated in the Contract and which were not known by the Contractor or could not have been discovered by careful examination and investigation of the information available at bid time and which could adversely affect the timely performance of the Work or its cost; or

2. Unknown and unexpected physical conditions at the site, of an unusual nature, differing materially from those ordinarily encountered in the locale or generally recognized as inherent in Work of the character provided for in the Contract.

D. The City shall within ten (10) days, or such other reasonable time as necessary, investigate the conditions discovered. If the City find that conditions are so materially different as to support an equitable adjustment in the Contract Price or the Contract Time, this will be done by written Change Order. If the City determine that no Change Order will be issued, the Contractor shall continue with the Work at no additional cost and under no change in Contract Time.

E. No claim by the Contractor for an increase in the Contract Price or Contract Time hereunder shall be allowed without proper advance notice and an adequate opportunity for the City to investigate.

F. Environmental Matters: Contractor shall provide or cause to be provided a copy of this Section (Environmental Matters) to each Subcontractor and each Sub-subcontractor participating in the Work.

1. Definitions. The following terms will have their respective designated meanings:

"**Environmental Law**" means any and all laws, ordinances, regulations, rules and administrative and court decisions (federal, state and local) now or hereafter in effect and as in effect from time to time and as amended from time to time pertaining to environmental conditions or to protection or regulation of the environment (including, without limitation, the Comprehensive Environmental Response Compensation

and Liability Act of 1980, as amended (42 U.S.C. Section 9601, et seq.); the Resource Conservation and Recovery Act of 1976 and the Solid Waste Disposal Act (42 U.S.C. 6901, et seq.); the Toxic Substances Control Act of 1976 (15 U.S.C. Section 2601, et seq.); the Superfund Amendments and Reauthorization Act of 1986, Title III (42 U.S.C. Section 11001 et seq.); the Clean Air Act (42 U.S.C. Section 7401, et seq.); the Federal Water Pollution Control Act (33 U.S.C. Section 1251, et seq.); the Safe Drinking Water Act (42 U.S.C. Section 300f, et seq.); the Hazardous Materials Transportation Act (49 U.S.C. Section 5101, et seq.); the Oil Pollution Act (33 U.S.C. Section 2701 et seq.); the Arizona Environmental Quality Act (Arizona Revised Statutes Section 49-101, et seq.); the Arizona Underground Storage Tank Act (A.R.S. Section 49-1001, et seq.); the Arizona Water Quality Assurance Revolving Fund Act (A.R.S. Section 49-281, et seq.) and any successor statutes to the foregoing and any regulations, rules or guidelines promulgated pursuant thereto.)

"**Hazardous Substance**" means any of the following: (i) any petroleum, oil, gasoline, kerosene, other petroleum product, flammable substance, volatile organic compound, volatile solvent, explosive, asbestos, polychlorinated biphenyl, dioxin, toxic herbicide or pesticide, radioactive material, radon gas and materials containing formaldehyde; (ii) any material, substance or waste now or hereafter defined as or included in the definition of "hazardous substances," "hazardous wastes," "hazardous materials," "extremely hazardous wastes," "extremely hazardous substances," "restricted hazardous wastes," "toxic substances," "regulated substances," "solid wastes," "pollutant," or "contaminant" or words of similar import in any Environmental Law; (iii) any other material, substance or waste now or hereafter classified or regulated as "hazardous" or "toxic" under any Environmental Law; (iv) any material, substance or waste now or hereafter listed in the United States Department of Transportation Table (49 CFR 172.101) or classified by the United States Environmental Protection Agency as "hazardous" (40 CFR Part 302) or in any successor or replacement tables or classifications as in effect from time to time; and (v) any Hazardous Waste.

"**Hazardous Waste**" means "hazardous waste", as defined in the Resource Conversation and Recovery Act of 1976 and the Solid Waste Disposal Act (42 U.S.C. 6901 et seq.) and any successor statutes and any regulations, rules or guidelines promulgated pursuant thereto as in effect from time to time (including, without limitation, any such waste resulting from removal of, demolition of, modifications of or additions to part or all of any existing structure, facility or equipment).

"**Contractor Hazardous Waste**" means any Hazardous Waste arising during or from the Work that is generated by the acts or omissions of Contractor, a Subcontractor or any Sub-subcontractor (including, without limitation, a Contractor Release) and that is not City Hazardous Waste.

"**City Hazardous Waste**" means Hazardous Waste (i) that consists of Hazardous Substances in any existing structure, facility or equipment on City's property or otherwise present on City's property at commencement of the Work, and (ii) that has become Hazardous Waste due to any part of the Work. However, City Hazardous Waste does not include any Hazardous Substance that has become a Hazardous Waste due to any Contractor Release.

"**Project Hazardous Waste**" means any Hazardous Waste arising on City's property from the Work (including, without limitation, Contractor Hazardous Waste and City Hazardous Waste), regardless of: (a) whether generated by the acts or omissions of City, Contractor, a Subcontractor or a Sub-subcontractor; (b) whether it consists of Hazardous Substances that were on or in City's property at commencement of the Work and that have become Hazardous Waste in the course of the Work; and (c) whether it consists of Hazardous Substances that are brought on to City's property for or during the Work by Contractor, a Subcontractor or a Sub-subcontractor and that have become Hazardous Waste in the course of the Work.

"**OSHA**" means the Federal Occupational Safety and Health Act (29 U.S.C. Section 651 et seq.) and any successor statutes and any regulations, rules or guidelines promulgated pursuant thereto as in effect from time to time.
"**Release**" means any discharging, disposing, dumping, emitting, emptying, escaping, injecting, leaching, leaking, pouring, pumping, releasing, spilling, or similar action or event.

"**Contractor Release**" means a Release of a Hazardous Substance (including, without limitation, Hazardous Substances that were on or in City's property at commencement of the Work) arising from acts or omissions of Contractor or any Subcontractor or Sub-subcontractor or their employees or workers. However, Contractor Release does not include Releases of pre-existing Hazardous Substances on City's property of which City had not made Contractor aware and as to which Contractor, Subcontractors and Sub-subcontractors acted reasonably.

G. General Requirements.

1. Compliance with Environmental Law and OSHA. Contractor shall comply with, and shall cause all Subcontractors and Sub-subcontractors to comply with, this section and with all Environmental Law and OSHA applicable to (i) Contractor, (ii) Subcontractors, (iii) Subsubcontractors, (iv) the Work and (v) all of their activities in respect of the Work.

2. Hazardous Substances. (i) Hazardous Substances may be transported to and from and stored, used and be present on City's property in such quantities as are generally recognized to be usual and customary for performance of the Work. (ii) Hazardous Waste may be generated on City's property of such kinds and in such quantities as are generally recognized to be usual and customary in connection with performance of the Work. Hazardous Waste so generated may be stored temporarily on City's property. (iii) Prior to final completion of the Work, Contractor shall remove or cause to be removed from City's property and disposed of in accordance with Environmental Law and OSHA any Hazardous Substances (other than Project Hazardous Waste) brought onto City's property during the Work or used in connection with the Work. (iv) Other than as provided in (i), (ii) and (iii), Contractor shall not, and Contractor shall cause all Subcontractors and Sub-subcontractors to not, dispose of, generate, manufacture, process, produce, Release, treat or otherwise store, use or have in or on or transport to or from City's property any Hazardous Substance, regardless of whether the Hazardous Substance is preexisting on City's property or otherwise.

3. Releases of Hazardous Substances. Upon any Release of any Hazardous Substance in connection with the Work, whether relating to a pre-existing condition on City's property (for example, arising from any demolition of, modification of, or addition to any structure, facility or equipment) or relating to acts or omissions of Contractor, a Subcontractor or a Sub subcontractor, Contractor shall take any immediate action reasonably necessary to contain the Release. City may elect to have Contractor control and carry out any containment, clean-up, removal and remediation activity. Alternatively, City shall have the right to elect to control and carry out any containment, clean-up, removal and remediation activity. Regardless of who takes the actions, Contractor shall absorb, without reimbursement from City, all costs and expense incurred by Contractor in connection with any Contractor Release. In addition, Contractor shall pay or reimburse City for all costs and expenses incurred by City relating to any Contractor Release. If the amount is not paid promptly, City may offset the amount against any amount payable by City to Contractor under the Contract Documents or otherwise. Remediation, removal, and other cleanup action arising from any Release shall be in full compliance with Environmental Law and OSHA and shall be subject to approval by City. In addition, City may require remedial, removal or other cleanup action in excess of applicable minimum requirements of Environmental Law and OSHA (A) as reasonably necessary or appropriate in the judgment of City to permit human use and habitation of City's property and to permit

use of City's property, and (B) as reasonably consistent in the judgment of City with such habitation and uses.

4. Hazardous Waste. City will arrange for handling, storage and disposal of any Project Hazardous Waste. On an interim basis until City can make arrangements, Contractor shall assure proper handling (including, without limitation, segregation from waste that is not Hazardous Waste) and storage of Project Hazardous Waste in full compliance with Environmental Law and OSHA. Contractor shall pay all of City's expenses of storing, handling and disposing of Contractor Hazardous Waste. City will deliver a statement to Contractor showing City's expenses, and Contractor will promptly pay such amount to City. If the amount is not paid promptly, City may offset the amount against any amount payable by City to Contractor under the Contract Documents or otherwise.

5. Notifications to City. Contractor shall notify City's Project Manager immediately upon occurrence of any of the following: (i) any discovery by Contractor, a Subcontractor or any Sub-subcontractor of any Hazardous Substance in any existing structure, facility or equipment on City's property. (ii) any Release of any Hazardous Substance on City's property in connection with the Work; (iii) the creation or generation of any Hazardous Waste resulting from the Work (including, without limitation, Hazardous Waste arising from the removal of, demolition of, modification of, or addition to any existing structure, facility or equipment); (iv) the need for any remediation or removal of any Hazardous Substance relating to the Work whether relating to a pre-existing condition on City's property or to acts or omissions of Contractor, a Subcontractor or a Sub-subcontractor; or (v) any claim, demand, inquiry, investigation, litigation or other action or proceeding by any governmental authority or other person relating to any Hazardous Substance, Hazardous Waste, Environmental Law or OSHA relating to the Work. Except for immediate action to contain any Release of any Hazardous Substance and except for interim handling and storage of Project Hazardous Waste, Contractor shall not take any action as to any matter in **(i), (ii), (iii), (iv)** or **(v)** without the prior written approval of City and City shall have the right to elect to control and carry out any such action or matter.

6. Other Asbestos. Contractor and each Subcontractor and Sub-subcontractor to comply with all requirements of Environmental Law and OSHA concerning any other asbestos in the Work area.

H. Construction Site Safety Requirements: Contractor shall have sole responsibility and liability for construction site safety. Without limiting other actions in this regard, Contractor shall, and shall cause each Subcontractor and Sub-subcontractor to, comply with worker health and safety requirements in Environmental Law and OSHA. In addition, Contractor shall take all reasonable necessary and appropriate steps to assure the health and safety of persons occupying any part of the facility in which the Work site is located or in the vicinity of or passing by the Work site and shall also take all reasonable necessary and appropriate steps to protect from damage or destruction the property of City and other persons in any part of the Facility in which the Work site is located or in the vicinity of or passing by the Work site. Among other actions in this regard Contractor shall comply with the requirements of the applicable fire code.

I. Environmental, Health and Safety Concerns by Contractor, Subcontractors or Subsubcontractors. If in the course of the Work, any environmental, health or safety concern exists or arises, whether relating to a Hazardous Substance, OSHA or otherwise, then the Work activities related to the concern must be discontinued until the concern is resolved. This means prior to disturbing a suspected Hazardous Substance or otherwise interacting with a potential health or safety hazard. The City's Project Manager must be notified immediately of the concern. Work shall not resume until approval has been provided by City. Close coordination will be maintained between City and Contractor so the Project schedule is impacted the least amount possible.

J. Scope of Indemnity. The indemnity in Article 13 of this Contract includes any claim by any person and City's attorneys' fees and other costs and expenses in defending any claim by any person that City is responsible or liable for any of the following arising from the acts or omissions of Contractor, any Subcontractor, any Sub-subcontractor or any of their employees or other workers relating to the Work: (i) any violation of Environmental Law or OSHA; (ii) any failure by Contractor, any Subcontractor or any Sub-subcontractor to perform or comply with any obligation or requirement in this Article, (iii) any Contractor Release of any Hazardous Substance; (iv) any improper disposition of any Hazardous Substance or Hazardous Waste; (v) any claim by any employee, agent, independent contractor or other worker of Contractor, any Subcontractor or any Sub-subcontractor and any claim by any other person of personal injury, death or property damage arising from any Contractor Release of any Hazardous Substance or arising from any failure by Contractor, any Subcontractor or any Sub-subcontractor to comply with any Environmental Law or OSHA or this section.

ARTICLE 6
PRODUCT SAMPLES, TESTS, AND CERTIFICATES

A. The Contractor shall furnish Product Samples of all items requested or required by the City. Product Samples shall be properly identified and submitted with such promptness as to cause no delay in Work or in the work of any other contractor and to allow time for consideration by the City. The City will review Product Samples.

B. Each Product Sample must be accompanied by a letter of transmittal containing the following information:

1. Date of Submission
2. Name of Project
3. Location of Project
4. Branch of Work (Specification Section Number)
5. Project Number
6. Name of Submitting Contractor
7. Name of Subcontractor

C. The Contractor shall furnish to the City a certificate stating that material or equipment submitted complies with Contract Documents. If a certificate originates with the manufacturer, the Contractor shall endorse it and submit it to the City together with a statement of compliance in its own name.

D. No tests, inspections or approvals performed or given by the City or others acting for the City or any agency of Federal, State or Local government nor any acts or omissions by the City in administering this Contract shall relieve the Contractor from its duty to perform the Work in accordance with the Contract Documents and applicable law.

E. Unless the City is authorized at the time of submittal to return samples at the Contractor's expense, rejected samples will be destroyed.

F. After delivery of materials, the City may make such tests as it deems necessary, with samples required for such tests being furnished by and at the cost of the Contractor. Any test is for the benefit of the City and shall not relieve Contractor of the responsibility for providing quality control measurements to assure that Work strictly complies with the Contract Documents. No test shall be construed as implying acceptance of materials, work, workmanship, equipment, accessories or any other item or thing.

G. On the basis of the test results, materials, workmanship, equipment or accessories may be rejected even though general approval has been given. If items have been incorporated in Work, the City shall have the right to cause their removal and replacement by items meeting Contract Document requirements or to demand and secure appropriate reparation to the City from the Contractor.

ARTICLE 7
AS-BUILT DRAWINGS

A. Prior to Substantial Completion, the Contractor shall complete and turn over to the City the As-Built Drawings. The As-Built Drawings shall consist of a set of drawings which indicate all field changes that were made to adapt to field conditions, changes resulting from contract Change Orders and all buried and concealed installation of piping, conduit and utility services. All buried and concealed items both inside and outside the facility shall be accurately located on the As-Built Drawings as to depth and in relationship to not less than two permanent features such as interior or exterior wall faces. The As-Built Drawings shall be clean and all changes, corrections and dimensions shall be given in a neat and legible manner in a contrasting color.

B. For any changes or corrections in the Work which are made subsequent to Substantial Completion, revisions shall be submitted to the City prior to Final Payment.

ARTICLE 8
SUPERINTENDENCE BY THE CONTRACTOR

A. The Contractor shall have a competent superintendent on the site at all times during the progress of the Work. Contractor's superintendent must be acceptable to the City. The superintendent shall have such assistants with such individual specialized competencies including, but not limited to, CPM scheduling, as may be necessary to fully understand and oversee all aspects of the Work. The superintendent and his assistants all shall be physically fit for their Work and capable of going to all locations where Work is being performed. A communication to the superintendent or his designated assistants by the City is binding upon the Contractor. The Contractor's superintendent shall be responsible for the prevention of accidents at the site. The Commercial Construction Safety Code of the Arizona Industrial Commission shall apply to all Work, and a copy of the Code shall be available at the site.

B. The Contractor shall at all times enforce strict discipline and good order among the workers on the Project and shall not employ or continue to employ any unfit person on the Project or any person not skilled in the work assigned to him. The Contractor shall be responsible to the City for all acts and omissions of its employees, Subcontractors, Suppliers, anyone whom the Contractor may allow to perform or inspect or supervise any Work, and their agents and employees together with anyone whom the Contractor may allow to come on the Project site. In addition, if the Contractor receives written notice from the City to dismiss those subcontractors or employees or one who is a hindrance to proper or timely execution of the Work, the Contractor shall dismiss those employees and agrees to replace those dismissed without delay to the Project and at no additional cost to the City.

C. The Contractor shall competently and thoroughly direct and superintend all of the Work and shall be solely responsible for all construction safety, means, methods, techniques, sequences and procedures. It shall coordinate and schedule all Work under this contract, the performance of all its employees, Subcontractors, and Suppliers, and the timely procurement of all necessary labor, materials, equipment, supplies, and all else needed to do the Work.

ARTICLE 9
SUBCONTRACTS

A. The Contractor shall supply with its bid to the City a written list of all proposed subcontractors and suppliers. The City will promptly reply to the Contractor in writing stating whether the City, after due investigation, has any objection to any such proposed subcontractor or supplier. The Contractor shall not employ any subcontractor or supplier against whom the City has reasonable objection. If, prior to the award of the Contract, the City has a reasonable objection to any subcontractor or supplier and refuses in writing to accept such person or organization, the apparent low bidder may, prior to the award, either withdraw his bid without forfeiture of bid security or may propose an acceptable substitution thereof provided that same results in no change in the bid price. Failure of the bidder to submit an acceptable substitute in a timely manner shall render its bid nonresponsive.

B. No substitution or change shall be made by the Contractor in the subcontractor/supplier list after its submission to the City without prior written approval by the City. Unapproved or untimely substitutions may be cause for invalidation of the Contractor's bid in the City's discretion, thereby rendering the Contract voidable.

C. All work performed for the Contractor by a subcontractor shall be pursuant to an appropriate written agreement which specifically binds the subcontractor to all applicable terms and conditions of the Contract Documents, but no contractual relationship shall exist between any subcontractor or supplier of any tier and the City, unless the City invokes the assignment provisions of the following subsection. Upon request, the Contractor shall provide fully executed copies of any subcontracts and purchase orders to the City.

D. The Contractor hereby assigns to the City (and its assigns) all its interest in any subcontracts and purchase orders now existing or hereinafter entered into by the Contractor for performance of any part of the Work, which assignment will be effective upon termination of the Contract by the City and only as to those subcontracts and purchase orders which the City assumes in writing. All subcontracts and purchase orders shall provide that they are freely assignable by the Contractor to the City and its assigns. Such assignment is part of the consideration to the City for entering into this Contract with the Contractor and may not be withdrawn prior to final completion.

E. The City may require each proposed subcontractor whose subcontract will exceed $100,000.00 to furnish a performance bond and a payment bond on City-approved forms in the full amount of its subcontract. The City will reimburse the Contractor for the documented cost of the subcontractor's performance bond premiums in the event the City requires such bonds by the subcontractor.

ARTICLE 10
COMMUNICATIONS

A. All project notices, requests, instructions, modifications, approvals, and claims must be in writing, unless expressly specified otherwise in the Contract.

B. Communications will be deemed to have been made if delivered in person or if mailed to the address designated in the Contract or otherwise agreed upon by the parties.

ARTICLE 11
PERMITS, TAXES, AND FEES

A. The Contractor shall secure and pay for any necessary building permits and for all other permits, fees, licenses and inspections necessary for the proper execution and completion of the Work, and shall immediately deliver copies to the City. The Contractor shall be responsible for complying with all applicable Federal, State and local laws, codes, notice requirements, and regulations applicable to the site and prosecution of the Work. Contractor shall be responsible for and pay any costs associated with or arising from any non-compliance.

B. The Contractor shall pay all taxes for and related to the Work or its portion thereof which are legally enacted at the time bids are received, whether or not yet effective.

ARTICLE 12
INSURANCE

A. Insurance Requirements: Concurrently with the execution of the Contract, the Contractor shall furnish the City of Buckeye a certificate of insurance on a standard insurance industry ACORD form. The ACORD form shall be issued by an insurance company authorized to transact business in the State of Arizona.

B. Contractor, subcontractors and subconsultants shall procure and maintain until all of their obligations have been discharged, including any warranty periods under this Contract are satisfied, insurance against claims for injury to persons or damage to property, which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees, or subcontractors.

C. The insurance requirements herein are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract.

D. The City in no way warrants that the minimum limits contained herein are sufficient to protect the Contractor from liabilities that might arise out of the performance of the work under this Contract by the Contractor, his agents, representatives, employees, subcontractors or subconsultants and Contractor is free to purchase such additional insurance as may be determined necessary.

E. Minimum Scope and Limits of Insurance. Contractor shall provide coverage at least as broad and with limits of liability not less than those stated below. The Contractor waives all rights of subrogation under the following policies.

(1) Commercial General Liability-Occurrence Form Policy shall include bodily injury, property damage, broad form contractual liability and XCU coverage.

General Aggregate	$2,000,000
Products-Completed Operations Aggregate	$1,000,000
Personal & Advertising Injury	$1,000,000
Each Occurrence	$1,000,000

The policy shall be endorsed to include the following additional insured language: “The City of Buckeye shall be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the Contractor”.

The policy shall contain a waiver of subrogation against the City of Buckeye.

(2) Automobile Liability- Bodily injury and property damage for any owned, hired, and non-owned vehicles used in the performance of this Contract

Combined Single Limit (CSL)	$1,000,000

The policy shall be endorsed to include the following additional insured language: "The City of Buckeye shall be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the Contractor including automobiles owned, leased, hired or borrowed by the Contractor".

(3) Workers Compensation and Employers Liability

Workers Compensation	Statutory
Employers' Liability	
Each Accident	$ 1,000,000
Disease-Each Employee	$ 1,000,000
Disease-Policy Limit	$ 1,000,000

(4) Umbrella/Excess Liability: Umbrella/Excess Liability insurance with a limit of not less than $5,000,000 per occurrence combined limit Bodily Injury and Property Damage, that "follows form" and applies in excess of the Commercial General Liability, Automobile Liability, and Employer's Liability, as required above.

The policy shall contain a waiver of subrogation against the City of Buckeye.

F. Additional Insurance Requirements. The policies shall include, or be endorsed to include, the following provisions:

(1) On insurance policies where the City of Buckeye is named as an additional insured, the City of Buckeye shall be an additional insured to the full limits of liability purchased by the Contractor even if those limits of liability are in excess of those required by this Contract.

(2) The Contractor's insurance coverage shall be primary insurance and non-contributory with respect to all other available sources.

(3) Coverage provided by the Contractor shall not be limited to the liability assumed under the indemnification provisions of this Contract.

G. Subconsultant's and Subcontractor's Insurance. Contractor's certificate(s) shall include all subcontractors as additional insureds under its policies or subcontractors shall maintain separate insurance as determined by the Contractor, however, subcontractor's limits of liability shall not be less than $1,000,000 per occurrence / $2,000,000 aggregate. All coverages for subcontractors and subconsultants shall be appropriate to cover all of its work performed herein.

H. Notice of Cancellation. Each insurance policy required by the insurance provisions of this Contract shall provide the required coverage and shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days prior written notice has been given, by certified mail, return receipt requested to:

Christopher A. Williams, Manager
Construction & Contracting Division
City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326

I. Acceptability of Insurers. Insurance is to be placed with insurers duly licensed in the State of Arizona and with an A. M. Best's rating of no less than A -. The City in no way warrants that the above required minimum insurer rating is sufficient to protect the Contractor from potential insurer insolvency.

J. Verification of Coverage

(1) Contractor shall furnish the City Certificates of Insurance (ACORD form or equivalent approved by the City) and with original endorsements effecting coverage as required by this Contract. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. *Any policy endorsements that restrict or limit coverages shall be clearly noted on the certificate of insurance.*

(2) All certificates and endorsements are to be received and approved by the City before work commences. Each insurance policy required by this Contract must be in effect at or prior to the earlier of commencement of work under this Contract or the signing of this Contract and remain in effect for the duration of the Project. Failure to maintain the insurance policies as required by this Contract or to provide evidence of renewal is a material breach of contract.

(3) All certificates of insurance required by this Contract shall be sent directly to the City of Buckeye, Manager, Construction & Contracting. The contract number and project description shall be included on the Certificates of Insurance. The City reserves the right to require complete, certified copies of all insurance policies required by this Contract, at any time.

K. Approval. Any modification or variation from the insurance requirements in this Contract shall be approved by the City, whose decision shall be final.

L. Liability Notwithstanding Insurance: Approval, disapproval or failure to act by Owner regarding any insurance supplied by Contractor or its Subcontractors shall not relieve the Contractor of full responsibility or liability for damages, errors, omissions or accidents as set forth in this Contract. Neither the bankruptcy or insolvency of Contractor's insurer nor any denial of liability by Contractor's insurer shall exonerate Contractor from the liability or responsibility of Contractor set forth in this Contract.

ARTICLE 13
INDEMNIFICATION

A. To the fullest extent permitted by law, Contractor agrees to defend, indemnify and hold Owner, its officers, agents and employees, harmless for, from and against any and all claims, lawsuits, judgments, costs and expenses for personal injury (including death), property damage or other harm for which recovery of damages is sought, suffered by any person or persons, that may arise out of or be occasioned by Contractor's breach of any of the terms or provisions of this Contract, or by any negligent, grossly negligent or strictly liable act or omission of Contractor, its officers, agents, or employees, in the performance of this Contract; except that the indemnity provided for in this paragraph shall not apply to any liability resulting from the sole negligence or fault of Owner, its officers, agents, employees or separate

contractors. The provisions of this paragraph are solely for the benefit of the parties hereto and are not intended to create or grant any rights, contractual or otherwise, to any other person or entity.

ARTICLE 14
PROGRESS AND SCHEDULING

A. Planning, scheduling and progress monitoring are essential functions of the Contractor. Within ten (10) days after the award of the Contract, the Contractor shall prepare and submit for the City a Schedule of Values allocating the Contract Price among the various portions of the Work for purposes of progress payments. The Schedule of Values shall be substantially equivalent to AIA Forms G702 and G703 or as specified by the City.

B. The Contractor shall also furnish the City with a Narrative Report corresponding with each monthly update which shall include a description of current and anticipated problem areas, delaying factors and their impact, fragmentary networks (fragnet) of delays, and an explanation of corrective action taken or proposed. If the Project is behind schedule in any month, the Contractor's Narrative Report shall indicate precisely what measurements it will take in the next thirty days to put the Work back on schedule.

C. The Contractor shall employ and supply a sufficient force of workers, material and equipment, and shall prosecute the Work with such diligence so as to maintain the rate of progress indicated on the Progress Schedule, to prevent work stoppage, and to ensure completion of the Project within the Contract Time.

D. The Contractor shall be responsible to prepare, submit and maintain the schedules and Narrative Reports indicated above, and the failure to do so may be considered a material breach of this Contract. Any additional or unanticipated cost or expense required to maintain the schedules shall be solely the Contractor's obligation and shall not be charged to the City.

ARTICLE 15
DAILY LOG

A. The Contractor shall maintain a daily log of construction activities for each calendar day of the Contract Time, using a form approved by the City. The Contractor shall document all activities at the Project site, including:

1. Weather conditions showing the high and low temperatures during work hours, the amount of precipitation received on the job site, and any other weather conditions which adversely affect Work at the site;
2. Soil conditions which adversely affect Work at the site;
3. The hours of operation by Contractor and individual Subcontractor personnel;
4. The number of Contractor and Subcontractor personnel present and working at the site, by subcontract and trade, and updated schedule activity number.
5. The equipment active or idle at the site;
6. A description of the Work being performed at the site, by updated schedule activity number.
7. Any delays, disruptions or unusual or special occurrences at the site;
8. Materials received at job site; and
9. A list of all visitors at the site.

B. The Contractor shall provide copies of the daily logs to the City on a weekly basis. The daily log does not constitute written notice to the City when such notice is required by the Contract Documents.

ARTICLE 16
MISCELLANEOUS DUTIES

A. The Contractor shall submit to the City upon request all payrolls, reports, estimates, records and any other data concerning Work performed or to be performed and concerning materials supplied or to be supplied, as well as Subcontractor payment applications and each Subcontractor's progress payment check. The requirements of this subsection shall be provided in all contracts between the Contractor and its Subcontractors.

B. During construction and for five (5) years after Final Payment, the Contractor shall retain and shall also require all Subcontractors to retain for review and/or audit by the City all correspondence, meeting minutes, memoranda, electronic media, books, accounts, reports, files, time cards, material invoices, payrolls, and evidence of all communications, direct and indirect costs, and all other matters related to the bidding and performance of the Work.

C. Upon request by the City, a legible copy or the original of any or all such records shall be produced by the Contractor at any time during or after construction as the City may request.

D. The Contractor shall be responsible for laying out its own Work and for any damage which may occur to work of any other contractor because of the Contractor's own errors or inaccuracies. The Contractor shall also be responsible for unloading, uncrating, storing and handling all materials and equipment to be erected or placed by it, whether furnished by the Contractor or others.

E. The Contractor, Subcontractors, and Suppliers shall be responsible for taking all appropriate field measurements prior to fabrication and installation of any item. Such measurements shall be taken sufficiently in advance so as to avoid any delay or potential delay. Failure to adhere to this provision shall render such delays the responsibility of the Contractor.

F. Unless otherwise specifically mentioned, all anchors, bolts, screws, fittings, fillers, hardware, accessories, wiring, conduit, ductwork, trim and other parts required for or in connection with any item or material to make a complete, serviceable, finished and quality installation shall be furnished and installed as part of the item whether or not expressly called for by the Drawings or Specifications.

G. All materials shall be shipped and stored and handled in a manner that will afford protection and ensure their being in factory-new condition at the time they are incorporated in the Work. After installation, they shall be properly protected against damage or deterioration until Final Completion of the Project.

H. When standards and specifications issued by The American Society of Testing and Materials, the American Institute of Steel Construction, the U.S. Department of Commerce (Commercial Standards), or other technical or standard setting organizations are cited in the Contract Documents, such standards or specifications (and all related standards or specifications) shall be equally as binding and have the full force and effect as though incorporated word for word. Unless otherwise specifically stated, the standards and specifications referred to shall be the latest edition or revision of such specifications that is in effect on the date of the public bid.

I. Any part of the Work damaged during installation or prior to final acceptance of Work shall be repaired so as to be unnoticeable and to be equal in quality, appearance, serviceability and other respects to an undamaged item or part of the Work. Where this cannot be fully accomplished the damaged item or part shall be replaced. After installation, all exposed surfaces and parts of an item or of the Work shall be cleaned in a manner that will not damage the finish or any of the parts of the item, so that the completed work is left in first class condition, free of all defects. All damaged or defaced Work shall be repaired or replaced to the City's satisfaction at the expense of Contractor.

J. The Contractor shall procure and furnish to the City all guarantees, warranties, manuals, and spares that are called for by the specifications or that are mentioned in the manufacturer's product literature. Guaranties and warranties shall commence as of the date of Substantial Completion of the Project.

K. The Contractor shall pay all royalties and license fees. The Contractor shall defend all suits or claims for infringement of any patent rights and shall save the City harmless from loss on account thereof, except that the City shall be responsible for loss attributable when a particular design, process or the product of a particular manufacturer or manufacturers is specified. If the Contractor has any reason to believe that the design, process or product specified could be an infringement of a patent, it shall be responsible for such loss unless it promptly gives such information in writing to the City.

L. The Contractor shall limit its operations to the confines of the Project, except as necessary to connect to existing utilities, and shall not, without the prior written permission of the affected property City, and encroach on property outside the site. Contractor shall not permit unauthorized persons or activities on the site and shall maintain the site in a safe and secure manner.

M. The Contractor shall prearrange time with the City whenever it becomes necessary to interrupt any service to make connections, alterations or relocations and shall fully cooperate with the City in doing Work so as to cause the least annoyance and interference with the continuous operation of the City's business or official duties. Any existing plumbing, heating, ventilating, air conditioning or electrical disconnections which may affect portions of this construction or building or any other building must be coordinated with the City to avoid any disruption of operation within the building or construction or other building or utilities. In no case, unless previously approved in writing by the City, shall utilities be left disconnected at the end of a workday or over a weekend. Any interruption of utilities, whether negligently, intentionally, or accidentally, shall not relieve the Contractor's responsibility for the interruption or from liability for loss or damage caused by such interruption even though such loss or damage was not foreseeable by Contractor or subcontractor, or from responsibility for repairing and restoring the utility to normal service. Repairs and restoration shall be made before the workmen responsible for the repair and restoration leave the job.

N. The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. If the Contractor fails to properly clean up during construction, or if a dispute arises between the Contractor and/or separate Contractors as to their responsibility for cleaning up, the City may clean up and charge the costs thereof to the Contractors responsible as determined by the City. At the completion of the work he shall remove all his waste materials and rubbish from and about the Project as well as all his tools, construction equipment, machinery and surplus materials. If the Contractor fails to clean up at the completion of the work, the City may do so and the cost thereof shall be charged to the Contractor.

ARTICLE 17
INSPECTION OF WORK

A. All Work done and all materials are subject to inspection by the City to determine if they conform to the Contract Documents. The City shall at all times have access to the Work, including materials being fabricated or stored off site. The Contractor shall furnish at the Contractor's cost any facilities necessary for sufficient and safe access to the Work.

B. Inspections, tests, measurements, or other acts of the City are for the sole purpose of assisting the City in determining that the Work, materials, rate of progress, and quantities comply with the Contract Documents and/or Contractor's requests for payment. These acts or functions shall not relieve the Contractor from performing the Work in full compliance with contract requirements nor relieve the Contractor from any of the quality, compliance and responsibility for the Work assigned to it by the Contract Documents. No inspection by the City shall constitute or imply acceptance or waiver of rights.

C. Nonconforming Work or materials may be rejected and Contractor shall correct such rejected Work without additional compensation, even if the Work or materials have been previously inspected or accepted by the City or even if the City failed to observe the unsuitable Work or materials.

D. Any Work required to be inspected by the City prior to being covered, which is covered up without prior inspection or without prior consent of the City, must be uncovered and recovered by the Contractor, if requested by the City, at no cost to City, notwithstanding the provisions of the following subsection.

E. Contractor shall notify the City in writing at least 48 hours prior to the time at which the City must be present to perform an inspection. Failure to provide such notice will place the Contractor at risk for all consequences of non-inspection and having to uncover work.

ARTICLE 18
CORRECTION OF WORK

A. If any portion of the Work is covered over contrary to the request of the City or as required by the Contract or the applicable building standards, it must be uncovered for observation at the Contractor's expense if requested by the City in writing.

B. If any portion of the Work, other than those portions required to be inspected by the City prior to being covered, has been covered over, the City may request that it be uncovered for observation. If such portion is found to be in accordance with the requirements of the Contract Documents, the cost of uncovering it shall be charged to the City as a Change Order. If such portion is found not to be in accordance with the requirements of the Contract Documents, the Contractor shall bear such costs.

C. The Contractor shall promptly remove from the site and replace any material or correct any Work found by the City to be defective or failing to conform to the requirements of the Contract, whether or not fabricated, installed or completed, and whether discovered before or after Substantial Completion. The Contractor shall bear all costs of correcting such Work or material, including the cost of necessary additional professional services and the cost of repairing or replacing all work of separate contractors or subcontractors damaged by such removal or correction. The City shall notify the Contractor immediately in writing upon its knowledge that additional professional services will be necessary and of the extent and estimated costs of the additional services. The City may consent to accept such Work or material with an appropriate adjustment in Contract Price.

D. If the Contractor does not promptly replace or correct such Work or material, the City may replace or correct the Work or material, and charge or deduct the cost of removal and replacement from any monies due to the Contractor, or recover such costs from the Contractor.

E. If, within two (2) years after the date of Substantial Completion, any of the Work is found to be defective or not in accordance with the requirements of the Contract, the Contractor shall correct it promptly after receipt of a written notice from the City to do so. If the Contractor does not promptly replace or correct such Work or material, the City may replace or correct the Work or material, and charge or deduct the cost of removal and replacement from any monies due to the Contractor, or recover such costs from the Contractor. Nothing contained in this section shall be construed to establish a period of limitation with respect to any obligation of the Contractor under the Contract or the law. The obligation of the Contractor under this section shall be in addition to and not in limitation of any obligations imposed by special guaranties or warranties required by the Contract, given by the Contractor, or otherwise recognized or prescribed by law.

F. If, during the running of a guarantee or warranty period, the Contractor must perform repair work to any portion of the Work, the running of the warranty or guarantee period is tolled from the time the defect or deficiency is discovered through the time when the Contractor successfully completes all repairs and retesting and start-up activities.

ARTICLE 19
DELAYS AND TIME EXTENSIONS

A. If the Contractor is delayed at any time in the progress of the Work by any act or neglect of the City, or by any separate Contractor employed by the City, or by changes in the Work, or by labor disputes, fire, unusual delay in transportation, unusually severe weather conditions, adverse soil conditions, unavoidable casualties, delays specifically authorized by the City, or by causes beyond the Contractor's control, avoidance, or mitigation, and without any fault or negligence of the Contractor or Subcontractor or Supplier at any tier, then the Contract Time shall be extended by Change Order for such reasonable time as the City may determine that such event has delayed the critical path of the Work or individual milestone or overall completion of the Work after considering the advice of the City, if the Contractor complies with the notice and documentation requirements set forth below. The Contractor shall pay any additional fees or costs incurred by the City as the result of delays caused by the Contractor for circumstances not excused as provided herein.

B. Initial notice of any delay in the Work shall be made in writing to the City immediately but in no event later than 24 hours after discovery of the event giving rise to the delay. Then, Contractor shall provide additional details of the delay in writing to the City within seven (7) calendar days from the beginning of the delay. Failure to meet these time requirements shall absolutely bar any and all later claims. The detailed notice shall indicate the cause of the delay, the anticipated length of the delay, the probable effect of such delay upon the progress and cost of the Work, and potential mitigation plans. If the cause of the delay is continuing, the Contractor must give written notice every month at the same time it submits the updated progress Narrative Report to the City. Within fifteen (15) days after the elimination of any such delay, the Contractor shall submit further documentation of the delay and, if applicable, a formal written request covering an extension of time for such delay. The written request for time extension shall state the cause of the delay, the number of days' extension requested and provide a fully documented analysis of the Progress Schedule, including a fragnet and any other data demonstrating a delay in the critical path of the Work or individual milestone or the overall project completion. If the Contractor does not comply with the notice and documentation requirements set forth above, the claim for delay is absolutely barred.

C. If the Contractor incurs damages related to expenses caused by a delay for which the City is solely responsible, which is unreasonable under the circumstances, and which was not contemplated by the parties at the time of formation of this Contract, then the parties shall attempt to reach an agreement on the Contractor's claim, provided that the Contractor has notified the City in writing as specified above, including why the City is believed by the Contractor to be solely responsible for the delay. Failure to provide such timely notice shall be deemed an absolute and final waiver of any rights to additional sums. Any disputes will be resolved in accordance with the City of Buckeye Procurement Code, as amended or superseded.

D. The Contractor shall have no right to claim for alleged extended or unabsorbed home office overhead; claims for delays shall be limited to provable extended site costs.

E. The date of beginning and the time for completion as specified herein are ESSENTIAL CONDITIONS of this Contract; and it is further mutually understood and agreed that the Work embraced in this Contract shall be commenced on a date to be specified in the notice to proceed or at a preconstruction meeting, but in no event later than ten (10) days after the execution of this Contract, whichever first occurs. Said Work shall be prosecuted regularly, diligently, and uninterruptedly at such rate of progress as will ensure full completion thereof within the time specified. The time for completion of the same takes into consideration the average climatic range and usual industrial conditions prevailing in this locality. If the Contractor shall neglect, fail or refuse to complete the Work within the time herein specified, or any extension thereof granted by the City, then the Contractor does hereby agree to pay to City the per diem amount specified in the Contract. This amount is agreed to be liquidated damages for such breach and not a penalty therefore. The per diem amount shall be paid for each and every calendar day that the Contractor shall be in default after the time stipulated in the Contract for completing the Work. The amount is fixed and agreed upon by and between the Contractor and City because of the impracticality and extreme difficulty of fixing and ascertaining the actual damages the City would in such event sustain. Said sums may be withheld by the City from any amounts due to the Contractor from the City, whether as the result of this Contract or any other obligation between the City and the Contractor.

F. The parties hereby agree that if the Contractor submits an original or updated schedule which shows the project and/or individual Milestone(s) completing earlier than required by the adjusted contractual completion date(s), the differences between the forecasted early completion and the required completion shall be considered Project-owned float available for use by both the City and the Contractor.

G. The Contractor shall not sequester shared float through such strategies as extending activity duration estimates to consume available float, using preferential logic, using extensive crew/resource sequencing, etc. Since float time within the schedule is jointly owned, no time extensions will be granted nor delay damages paid until a delay occurs which extends the work beyond the adjusted Contract completion date. Since float time within the Construction Schedule is jointly owned, it is acknowledged that City-caused delays on the project may be offset by City-caused time savings (i.e., critical path submittals returned in less time than allowed by the Contract, approval of substitution requests which result in a savings of time to the Contractor, etc.). In such an event, the Contractor shall not be entitled to receive a time extension or delay damages until all City-caused time savings are exceeded and the Contract completion date or milestone date is also exceeded.

H. It is agreed that no time extensions shall be granted nor delay damages paid unless the delay is clearly demonstrated by the updated Construction Schedule current as of the month the change was issued or the delay occurred and which delay cannot be mitigated, offset, or eliminated through such actions as revising the intended sequence of work or other reasonable means.

ARTICLE 20
SUSPENSION OF WORK

A. The City may, at any time and without cause, order the Contractor in writing or cause the Contractor to suspend, delay or interrupt all or any part of the Work for such period of time as the City may determine to be appropriate for its convenience. Equitable adjustment shall be made for any increase in the Contract Time necessarily caused by such suspension or delay by written Change Order.

ARTICLE 21
RIGHT TO STOP WORK

A. If the Contractor fails to correct defective Work as required, or fails to carry out the Work in accordance with the Contract Documents, the City by written notice, may order the Contractor to stop the Work or any portion of the Work, until the cause for the order has been eliminated to the satisfaction of the City.

B. The City may stop Work without written notice for 24 hours whenever in its professional opinion such action is necessary or advisable to ensure conformity with the Contract Documents. The Contractor shall not be entitled to an adjustment in the Contract Price or Contract Time under this subsection. The right of the City to stop the Work shall not give rise to a duty on the part of the City to exercise this right for the benefit of the Contractor or others.

ARTICLE 22
CHANGES

A. After this Contract is signed, Modifications in the Contract Price, the Contract Time or Scope of the Work may only be made by written Change Order.

B. By written directive at any time, the City may make any changes within the general scope of the Contract or issue additional instructions, require additional or modified Work or direct deletion of Work. The Contractor shall not proceed with any change involving an increase or decrease in cost or time without prior written authorization from the City and shall proceed in accordance with the procedures set forth in this section. If the Contractor proceeds with any change involving an increase or decrease in cost or time without written authorization as required by this paragraph, the Contractor hereby waives all rights or claims Contractor may have as a result of the change. The City's right to make changes shall not invalidate the Contract or relieve the Contractor of any liability. Any requirement of notice of change to the Surety shall be the responsibility of the Contractor.

C. The cost or credit to the City resulting from a change in Work shall be determined in one or more of the following ways:

1. By unit prices stated in the Contract.

2. By cost, as defined below, properly itemized and supported by sufficient, substantiating data to permit evaluation, plus a fee of ten percent (10%) of items (a) through (h) described below. Such costs shall be itemized by crafts as defined within the schedule of values and limited to the following items directly allocable to the change in the Work:

(a) Cost of materials, including delivery but excluding Subcontractor-supplied materials.

(b) Fully-burdened cost of labor, including, but not limited to, payroll taxes, social security, old age and unemployment insurance, vacation and fringe benefits required by agreement or routinely paid by contractor, and worker's or workman's compensation insurance but excluding Subcontractor's labor.

(c) Rental value of equipment and machinery to be established by rental receipts and not to exceed reasonable and customary rates for the locale of the Work. For owned equipment, contractor must prove reasonable rental rate pursuant to actual ownership costs.

(d) Cost of Subcontracted work calculated as above and Subcontractor's Field Supervision calculated in accordance with paragraph (e) below, plus Subcontractor's insurance and bond premiums as applicable. Insurance and bond premium cost shall not exceed a total of two percent (2%) of Subcontractor's documented cost.

(e) Contractor's Field Supervision not to exceed five percent (5%) of (a), (b) and (d) above; the parties agree that this mark-up shall fully cover all contractor Field Supervision overhead.

(f) Contractor's insurance and bond premiums not to exceed a total of two percent (2%), or documented cost.

(g) Sales tax at full value.

(h) If this method of cost or credit calculation is selected, in no event shall the combined total fee including all levels or tiers of Subcontractors exceed twenty percent (20%) of the total cost of paragraphs (a), (b), (c) and (d). Field Supervision is to be excluded at all levels for the purposes of the limit imposed by this paragraph.

3. By mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation; provided that such lump sum shall not exceed that amount calculated under item 2 above.

D. If none of the above methods is agreed upon, the Contractor shall promptly proceed with performing the change, upon receipt of a written order signed by the City. Any dispute regarding the pricing methodology or cost of the change shall not relieve the Contractor from proceeding with the change as directed by the City. The cost or credit to the City shall be determined by the City on the basis of the preceding subsection.

E. A fully executed Change Order shall be full and final settlement of all claims for direct, indirect, delay, disruption, inefficiency and any other consequential costs related to items covered or affected, as well as time extensions. Any such claim not presented by the Contractor for inclusion in the Change Order is irrevocably waived.

F. In an emergency affecting the safety of life, or of the structure, or of adjoining property, the Contractor, without special instruction or authorization from the City, is permitted to act at its discretion to prevent threatened loss or injury. Any compensation claimed by the Contractor on account of such emergency work shall be determined in accordance with this section.

ARTICLE 23
PAYMENT

A. Payments on account of the Contract Price will be made monthly as Work progresses. Payment Applications, covering labor, material, equipment, supplies, and other items completed, delivered, or suitably stored on site during a period ending on the last calendar day of each month, shall be submitted to the City by the Contractor on the current edition of AIA Documents G702 and G703, within five (5) days after end of the period. Payment Applications shall be notarized, shall be supported by such data substantiating the Contractor's right to payment as the City may require, and reflect retainage, if any, as is provided. All payments shall be subject to any offset or retainage provisions of the Contract.

B. Each payment made to the Contractor shall be on account of the total amount payable to the Contractor, and title to all Work covered by a paid partial payment shall thereupon pass to the City. Nothing in this section shall be construed as relieving the Contractor from the sole responsibility for care and protection of materials and Work upon which payments have been made, for restoration of any damaged Work, or as a waiver of the right of the City to require fulfillment of all terms of Contract Documents.

C. The City, within seven (7) days after receipt of the Payment Application, will either issue a Certificate for Payment for such amount as is properly due or issue written notice of the reasons for withholding such a certificate.

D. The issuance of a Certificate for Payment will constitute a representation by the City, observations at the site and the data comprising the Application for Payment, that the Work is in accordance with the Contract Documents (subject to an evaluation of the Work for conformance with the Contract Documents upon Substantial Completion, to the results of any subsequent tests required by or performed under the Contract Documents, to minor deviations from the Contract Documents correctable prior to completion, and to any specific qualifications stated in his certificate); and that the Contractor is entitled to payment in the amount certified.

E. Payment may be withheld in whole or in part to protect the City on account of:

1. Unsatisfactory job progress as determined by the City.
2. Defective Work or materials not remedied.
3. Disputed Work or materials.
4. Claims or other encumbrances filed or reasonable evidence indicating probable filing of claims or other encumbrances by Subcontractors or Suppliers, or others.
5. Failure of the Contractor to make payment to Subcontractors or Suppliers within seven (7) days after receipt of each progress payment.
6. A reasonable doubt as determined by the City that the Work can be completed for the unpaid balance of the Contract Price or within the Contract Time.
7. The Contractor's failure to perform any of its contractual obligations under the Contractor Documents, or any other Contract with the City.
8. Deficiencies or claims asserted by City against Contractor arising from any other project. Within fourteen (14) days following the receipt of the Certificate of Payment, the City shall pay to the Contractor the value of the Work in place and materials suitably stored at the site. The remaining 10% shall be retained by the City until the Contract is 50% completed at which time the retainage shall be reduced to 5%; provided that: (a) the Contractor is making satisfactory progress on the Contract; and (b) in the City's sole judgment, there is no specific cause or claim requiring a greater amount than 5% to be retained. Thereafter, the City shall pay the Contractor

95% of the value of the Work, unless and until it determines satisfactory progress is not being made, at which time the 10% retainage may be reinstated. Such 10% reinstatement would be 10% of the total contract value of Work in place and materials stored. The City's sole judgment concerning the satisfactory progress of the Work shall be final.

F. Within sixty (60) days after the issuance of the Certificate of Final Completion by the City and receipt of all other documents required by the Contract, all retained amounts shall be paid to Contractor as part of Final Payment:

1. The Final Payment shall not become due until the Contractor delivers to the City full and final unconditional releases from Subcontractors and major Suppliers acknowledging payment in full. Any claim filed thereafter shall be the responsibility of the Contractor.

2. If any claim remains unsatisfied after all payments are made, the Contractor shall immediately upon demand refund to the City all monies that the latter may be compelled to pay in discharging such claim including all costs, interest and attorneys' fees.

G. If any payment of the Contract Price is not made within thirty (30) days and without just cause, interest shall thereafter accrue on the unpaid principal balance at the minimum rate allowed by state law (A.R.S. § 44-1201) on the due date.

ARTICLE 24
WARRANTY

A. The Contractor warrants that all materials and equipment furnished under this Contract will be new unless otherwise specified, and that all Work will be free from faults and defects and in strict conformance with the Contract Documents.

B. Neither provision of manufacturers' warranties nor Final Payment nor use or occupancy of all or a portion of the Premises by the City shall constitute an acceptance of Work not performed in accordance with the Contract Documents or relieve the Contractor or its sureties of liability with respect to any warranties or responsibility for faulty materials and workmanship.

C. This warranty shall continue for a period of 1 year from the date of final acceptance of the work. If the City takes possession of any part of the work before final acceptance, this warranty shall continue for a period of 1 year from the date the City takes possession.

D. The Contractor or its sureties shall remedy any defects in the Work and any resulting damage to the Work or the Work of others at its own expense.

E. The Contractor shall be liable for correction of all damage resulting from defective Work. If the Contractor fails to remedy any defects or damage, the City may correct the Work or repair the damages and the cost and expense incurred in such event shall be paid by or be recoverable from the Contractor.

F. The warranties provided in this section shall be in addition to and not in limitation of any other warranty or remedy provided by law or by the Contract Documents.

ARTICLE 25
SUBSTANTIAL COMPLETION

A. When the Contractor requests a Substantial Completion Inspection for the Work or a designated portion thereof, the City shall determine the validity of the request. A list of items to be completed or corrected shall be prepared by the Contractor and presented to the City with the request for inspection. By submitting a request for Substantial Completion Inspection the Contractor thereby certifies that it has performed a thorough inspection of the Project in preparing the list of items to be completed or corrected, has consulted with its subcontractors, and that the remaining incomplete or defective work shall be completed within thirty (30) days of submission of the request. The City shall evaluate the Contractor's request and list of uncompleted items and, if appropriate in their judgment, add to or delete items from the list necessary to complete the work. The failure to include items on any punch list shall not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. By submitting a request for Substantial Completion Inspection, the Contractor thereby certifies that the remaining incomplete or defective Work required by the Contract Documents shall be completed within thirty (30) days.

B. If the City, on the basis of Substantial Completion inspection, determines that the Work has been substantially completed in accordance with the Contract Documents, then the City will prepare a Certificate of Substantial Completion, which shall establish the date of Substantial Completion; shall state the responsibilities of the Contractor for remaining punchlist items, maintenance, heat and utilities, security, and damage to the work; and shall fix the time, not to exceed thirty (30) days, within which the Contractor shall complete the punch list. The Certificate of Substantial Completion shall be submitted by the City to the Contractor for their written acceptance of the responsibilities assigned to them in such Certificate. The Project shall not be deemed substantially complete until the Certificate is issued irrespective of City occupancy.

ARTICLE 26
FINAL INSPECTION

A. When the Contractor submits in writing to the City a request for a final inspection of the Work, the City shall determine the validity of the request. Following the inspection, if there are items to be completed or corrected, the City will determine the dollar value to be withheld in accordance with the retainage provisions of the Contract. In the event that the Contractor has not completed the punch list items within the time designated in the Certificate of Substantial Completion, the City retains the right to have these items corrected at the expense of the Contractor, including all architectural, engineering and inspection costs and expenses incurred by the City.

B. The City shall not be required to release the retainage until such items have been completed and inspected.

ARTICLE 27
ASSIGNMENT OF CLAIMS

A. The City and Contractor recognize that in actual economic practice overcharges resulting from antitrust violations are in fact borne by City. Therefore, the Contractor hereby assigns to City any and all claims for such overcharges. The Contractor in all subcontracts shall require all Subcontractors to likewise assign all claims for overcharges to the City.

ARTICLE 28
DISPUTES

A. All of Contractor's claims and disputes shall first be referred to the City for initial determination, by written notice, not more than seven (7) days from the occurrence of the event which gives rise to the dispute, or not more than seven (7) days from the date that the Contractor knew or should have known of the problem. Unless the claim is made in accordance with these time requirements, it is irrevocably waived. The City shall render a written decision within a reasonable time. The City's decision may be reviewed in accordance with City of Buckeye Procurement Code, as amended or superseded. Any claim not timely filed or not complete at the time of filing is irrevocably waived.

B. Any failure of the City to make a decision within the time limit set forth shall not be construed as acquiescence in all or any part of the Contractor's claim for relief. Unless otherwise agreed in writing, the Contractor shall carry on the Work and maintain its progress during any claims and controversy proceedings, and the City shall continue to make payments to the Contractor in accordance with the Contract Documents.

ARTICLE 29
FORUM

A. No suit or action shall be commenced hereunder by any claimant other than in the Arizona Superior Court, and only after all contractual and administrative procedures have been fulfilled. By submitting a bid for this project, Contractor agrees to be bound by the City of Buckeye Procurement Code Dispute Resolution Procedures and waives any objections to those procedures.

ARTICLE 30
TERMINATION BY THE CITY

A. This Contract may be terminated by the City under the conditions stated in A.R.S. § 38-511.

ARTICLE 31
TERMINATION FOR CAUSE

A. The City may terminate the Contract upon the occurrence of any one or more of the following events:

1. If the Contractor refuses or fails to prosecute the Work, or any separable part, with such diligence as will ensure its completion within the Contract Time; or if the Contractor fails to complete the Work within the Contract Time;

2. If the Contractor or any of its key subcontractors is adjudged a bankrupt or insolvent or makes a general assignment for the benefit of creditors, or if the Contractor or any of its key subcontractors or a third party files a petition to take advantage of any debtor's act or to reorganize under the bankruptcy or similar laws concerning the Contractor or any of its key subcontractors, or if a trustee or receiver is appointed for the Contractor or any of its key subcontractors or for any of the Contractor's property on account of the Contractor's insolvency, and the Contractor or its successor in interest or any of its key subcontractors does not provide adequate assurance of future performance in accordance with the Contract within ten (10) days after receipt of a request for assurance from the City;

3. If the Contractor fails to supply sufficient skilled workmen or suitable materials or equipment;

4. If the Contractor fails to make prompt payments to subcontractors or suppliers at any tier, or for labor, materials or equipment;

5. If the Contractor fails to comply with laws, ordinances, rules, codes, regulations, orders or similar requirements of any public entity having jurisdiction;

6. If the Contractor fails to follow any reasonable instructions by the City;

7. If the Contractor performs Work which deviates from the Contract Documents, and neglects or refuses to correct rejected Work; or

8. If the Contractor otherwise violates in any material way any provisions or requirements of the Contract Documents. Once the City determines that sufficient cause exists to justify the action, the City may terminate the Contract without prejudice to any other right or remedy the City may have, after giving the Contractor and its Surety seven (7) days' notice by issuing a written Declaration of Default. The City shall have the sole discretion to permit the Contractor to remedy the cause for the contemplated termination without waiving the City's right to terminate the Contract.

B. If the Contract is terminated, the City may take over the Work and prosecute it to completion, by contract or otherwise, and may exclude the Contractor from the site. The City may take possession of the Work and of all of the Contractor's tools, appliances, construction equipment, machinery, materials, and plant which may be on the site of the Work, and use the same to the full extent they could be used by the Contractor, without liability to the Contractor. In exercising the City's right to prosecute the completion of the work, the City may also take possession of all materials and equipment stored at the site or for which the City has paid the Contractor but which are stored elsewhere, and finish the Work as the City deems expedient. In such case, the Contractor shall not be entitled to receive any further payment until the Work is finished.

C. If the unpaid balance of the Contract Price exceeds the direct and indirect costs and expenses of completing the Work, and all City damages including liquidated damages and compensation for additional professional and consultant services, such excess shall be used to pay the Contractor for the cost of the Work it performed and a reasonable allowance for overhead and profit. If such costs exceed the unpaid balance, the Contractor shall immediately upon demand pay the difference to the City. In exercising the City's right to prosecute the completion of the Work, the City shall have the right to exercise its sole discretion as to the manner, methods, and reasonableness of the costs of completing the Work, and the City shall not be required to obtain the lowest figure for Work performed in completing the contract. If the City takes bids for remedial Work or completion of the project, the Contractor shall not be eligible for the award of such contracts.

D. If the Contract is terminated, the City may demand that the Contractor's Surety take over and complete the Work on the Contract. The City may require that in so doing, the Contractor's Surety not utilize the Contractor in performing the Work. Upon the failure or refusal of the Contractor's Surety to take over and begin completion of the Work within 20 days after the demand, the City may take over the Work and prosecute it to completion as provided above.

E. The City shall have the option of requiring any, all or none of the Subcontractors to perform according to their subcontracts and may assign any or all of the subcontracts to a general contractor selected to complete the Work.

F. If the City takes over the Work, unexecuted orders entered into by the Contractor for performance of any part of the Work will be effective upon acceptance by the City in writing and only as to those subcontracts and purchase orders which the City designates in writing.

G. The Contractor shall be liable for any damage to the City resulting from the termination or from the Contractor's refusal or failure to complete the Work, and for all costs necessary for repair and completion of the Project over and beyond the amount of the Contract. The Contractor shall be liable for all legal fees and costs required to enforce the provisions of the Contract.

H. If the City terminates the Contract, the Contractor shall remain liable for liquidated damages for delay until such reasonable time as may be required for final completion of the Work. Such damages shall be in addition to and not in lieu of any other damages sustained by City in completing the Work.

I. In the event the Contract is terminated, the termination shall not affect any rights of the City against the Contractor. The rights and remedies of the City under this section are in addition to any other rights and remedies provided by law or under this Contract. Any retention or payment of monies to the Contractor by the City will not release the Contractor from liability.

J. If the Contract is terminated under this section, and it is determined for any reason that the Contractor was not in default under the provisions of this Section, the termination shall be deemed a Termination for Convenience of the City and, the rights and obligations of the parties shall be determined in accordance with the following section.

ARTICLE 32
TERMINATION FOR CONVENIENCE OF THE CITY

The City, by written notice to the Contractor, may terminate this Contract in whole or in part when sufficient appropriated or other funds are not available or in the sole discretion of the City it is in the City's best interest. In such case, the Contractor shall be paid for all Work executed and reasonable termination expenses, and a reasonable allowance for profit and overhead on Work done, provided that such payments exclusive of termination expenses shall not exceed the total Contract Price as reduced by other contract payments previously made to the Contractor and as further reduced by the value of the Work as yet not completed. The Contractor shall not be entitled to profit and overhead on Work, which was not performed.

ARTICLE 33
ASSIGNMENT OF CONTRACT

Contractor shall not assign any amount or part of the Contract or any of the funds to be received under the Contract unless Contractor has the prior written approval of the City and the Contractor's Surety has been given notice and has given written consent to any such assignment.

ARTICLE 34
LAW TO GOVERN

This Contract is made under and shall be construed in accordance with the laws of the State of Arizona. If any portion of this Contract is found to be unenforceable the rest and remainder of the Contract shall remain in full force and effect so as to effectuate the intent of the parties. Each party acknowledges that it has had an opportunity to review this Contract with counsel and this document shall be construed fairly and equitably so as to effectuate the intention of the parties irrespective of who is determined to have been the drafter of the document.

ARTICLE 35
E-VERIFY REQUIREMENTS

To the extent applicable under Ariz. Rev. Stat. §41-4401, the Contractor and its subcontractors or subconsultants warrant compliance with all federal immigration laws and regulations that relate to their employees and compliance with the E-verify requirements under Ariz. Rev. Stat. §23-214(A). The Contractor's or its subcontractor's or subconsultant's failure to comply with such warranty shall be deemed a material breach of this Agreement and may result in the termination of this Agreement by the City.

ARTICLE 36
COMPLIANCE WITH FEDERAL IMMIGRATION LAWS AND REGULATIONS

Consultant warrants that it complies with all Federal Immigration laws and regulations that relate to its employees and complies with A.R.S. § 23-214.A. Consultant acknowledges that pursuant to A.R.S. § 41-4401 and effective September 30, 2008, a breach of this warranty is a material breach of this contract subject to penalties up to and including termination of this contract, and that the City retains the legal right to inspect the papers of any employee who works on the contract to ensure compliance with this warranty.

ARTICLE 37
ISRAEL

Pursuant to Arizona Revised Statute § 35-393.01, Contractor certifies that it is not currently engaged in, and agrees for the duration of the Contract to not engage in, a boycott of Israel, or any entity that does business in Israel or any territories controlled by Israel.

END OF SECTON

EXHIBIT B
Plans & Specifications

SPECIFICATIONS

STANDBY GENERATOR ELECTRICAL SPECIFICATIONS

KIMLEY-HORN PROJECT NO. 191342018

CITY OF BUCKEYE, ARIZONA
CITY PROJECT NO. 103700



Sites:

City Hall
530 Monroe Ave.
Buckeye, AZ 85326

Community Center
201 E. Center Ave.
Buckeye, AZ 85326

Saide Recreation Center
1003 E. Eason Ave.
Buckeye, AZ 85326

Sundance Crossing Library
21699 W. Yuma Road #116
Buckeye, AZ 85326

City Fuel Yard
23454 W. Highway MC85
Buckeye, AZ 85326

Fleet Maintenance Yard
415 E. Arizona Eastern
Buckeye, AZ 85326

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END OF SECTION

PART 1 - GENERAL

1.01 SCOPE

A. This section shall include raceways, enclosures, supporting devices ancillary fittings and appurtenances. Furnish and install the complete raceway systems as shown on the Drawings and as specified herein.

B. Raceway is a broad-scope term that shall be defined by the National Electrical Code under Article 100.

1.02 APPLICATIONS

A. Except as otherwise shown on the Drawings, or otherwise specified, all underground and in-slab conduit raceways shall be shall be made with schedule 40 PVC. Bends to grade shall be made with plastic coated rigid galvanized steel conduit.

B. Except as otherwise shown on the Drawings, or otherwise specified, all outdoor exposed power, control, and instrumentation, signal, and communication conduit shall be rigid steel conduit, except where areas are denoted as corrosive or NEMA 4X. The inside of the chlorine storage building shall be a NEMA 4X corrosive area. In those area furnish plastic coated rigid steel conduit, fittings, and boxes.

1.03 SUBMITTALS AND SHOP DRAWINGS

A. Process catalog submittals for the following:

1. Plastic Jacketed Rigid Steel Conduit
2. Rigid Non-Metallic Conduit
3. Liquid-tight Flexible Conduit
4. Liquid-tight Fittings
5. Conduit Bushings
6. Conduit Bodies
7. Conduit Sealing Fittings
8. Expansion-Deflection Fittings
9. Expansion Fittings
10. Cast Metal Boxes
11. NEMA 4X J-Boxes
12. Tape Products
13. Wiring Devices
14. Supporting Devices
15. Labels
16. Grounding Devices
17. Foam Sealant
18. Conduit End Bell Fittings

PART 2 - PRODUCTS

2.01 RACEWAYS

A. Rigid metallic aluminum conduit shall be manufactured of 6063 alloy, T-1 temper, with no more than 0.02% copper content. All conduit couplings shall be threaded aluminum. All such conduit

shall be listed with UL and comply with UL-6 and ANSI C80.5. Aluminum conduit shall be Easco, Indalex or equal.

B. Rigid metallic steel conduit shall be hot-dip galvanized inside and outside and over threads. All such conduit shall comply with U.L. Standard UL-6, Federal Specification WWC-581-D, ANSI C90.1, and NEMA RN1-1980. Furnish Wheatland, Allied or equal.

C. Plastic coated rigid steel conduit shall consist of rigid steel body that complies with above specifications for rigid metallic steel conduit, plus conduit shall have 40 mil thick heat-fused PVC over outside and 2 mil coat of fully catalyzed phenolic inside. The inside coat shall have the chemical resistance of the outer coating and shall not dissolve in lacquer thinner. All couplings shall be equipped with PVC sleeves that extend one pipe diameter or 2", whichever is less, beyond the end of the coupling. All plastic coated conduit shall conform to NEMA Standard #RNI-1974 (Type A) and such conduit shall be Robroy "Plastibond Red", or equal.

D. Non-metallic rigid conduit shall be Schedule 40 PVC. Such conduit shall be UL listed for 90 degrees C and shall conform to NEMA TC-2 and UL-651 standards. Furnish Carlon, Cantex, or equal. Furnish manufacturer's approved solvent for joining couplings.

E. Liquid-tight flexible conduit shall consist of hot-dipped galvanized, flexible interlocking steel core with thermoplastic cover, integral copper ground wire (through 1-1/4" trade size) and shall be Anaconda Sealtite or equal.

2.02 CONDUIT FITTINGS

A. NEMA 4 locknuts for rigid metallic conduit shall consist of galvanized steel body with neoprene sealing ring. Furnish Crouse-Hinds, T&B, or equal.

B. NEMA 1 locknuts for rigid metallic conduits shall be galvanized steel for use with galvanized steel conduit and hardened aluminum for use with aluminum conduit.

C. Conduit field-applied hubs for sheet metal enclosures shall be aluminum body with recessed neoprene sealing ring, threaded NPT insert, and shall be, T&B 370 AL series, or equal products by OZ/Gedney.

D. Conduit hubs for non-metallic enclosures shall be fiberglass polyester reinforced with galvanized steel core, complete with locknut and grounding bushing. All such hubs shall be Crouse-Hinds Type NHU, or equal.

E. Rigid metallic conduit chase nipples, split couplings, slip fittings, unions, reducers, and enlargers, shall be hot-dip or mechanically galvanized malleable iron.

F. Rigid metallic conduit short els and long els shall be hot-dip galvanized malleable iron with NPT threaded hubs and male ends. Throats shall be smooth and free from burrs. All such fittings shall be OZ/Gedney Type "9" Series, Appleton, or equal.

G. Rigid metallic conduit split couplings shall have threaded body with split tightening shelves with neoprene sandwich. Furnish malleable iron mechanically galvanized body. Such fittings shall be OZ type "SSP", or equal.

H. Rigid metallic conduit grounding bushings shall be aluminum body with threaded hub, bakelite insulated throat, and tin-plated copper ground lug. Furnish OZ/Gedney type ABLG, or equal.

I. Liquid-tight flexible conduit fittings shall be hot-dip galvanized steel body with internal locking ring and ground cone plus external ground wire fitting. Furnish straight or angle connectors as required. All such connectors shall be OZ/Gedney 4Q series, or equal.

J. Rigid metallic conduit expansion/deflection fittings shall consist of galvanized malleable iron hubs with heat-fused epoxy coating, flexible neoprene joining sleeve banded to hubs with stainless steel bands, and with internal bonding jumper and guide cones. Furnish Crouse-Hinds type "XDHF" or equal.

K. Rigid metallic conduit expansion fittings shall consist of metallic barrel joined to hubs at each end. One hub shall be threaded to barrel and other hub shall have slip fit to allow up to four (4") inches of conduit lateral movement. Provide external bonding jumper for each expansion joint. Furnish Crouse-Hinds type "XJ", OZ Type "AX", or equal.

L. Conduit waterstops for sealing inside of conduit runs shall consist of aluminum pressure discs with sandwiched neoprene seal and with 316 stainless steel hardware. Furnish OZ/Gedney type "CS" series products, as indicated.

2.03 CONDUIT BODIES AND BOXES

A. Conduit bodies such as "C", "LB", "T" and the like pulling fittings shall be zinc coated with malleable iron or aluminum (material shall match conduit). Covers for damp and/or wet location use shall be gasketed cast metal with "wedge-nut" clamps. Covers for dry locations shall be cast aluminum and hardware shall be 316 stainless steel. All covers shall be equipped with clamp type clevises. Furnish Crouse-Hinds Form 7, or Appleton Form "FM7" products.

B. Conduit bodies for use in corrosive areas shall be as specified above but shall have 40 mil plastic coated PVC jacket and 2 mil interior coating as specified for plastic coated rigid steel conduit. Furnish Robroy Plasti-bond Red fittings or equal.

C. Conduit bodies such as "GUA", "GUAT", "GUAL", and the like pulling/splicing fittings shall be cast aluminum with threaded cast aluminum covers. All such conduit bodies shall be Killark "GE" series, or equal products by Crouse-Hinds or Appleton.

D. Cast metal outlet boxes, pullboxes, and junction boxes whose volume is smaller than 100 cubic inches, and cast metal device boxes, shall be sand-cast, copper-free aluminum or zinc coated sand-cast malleable iron. All boxes shall have threaded hubs. Furnish Crouse-Hinds "FD" style condulets, Appleton "FD" style Unilets, or equal.

E. Covers for cast metal boxes shall be gasketed cast metal covers with 316 stainless steel screws and shall be suitable for use in wet or damp locations.

2.04 PULL AND JUNCTION BOXES

A. Pullboxes and junction boxes whose volume is less than 100 cubic inches shall be furnished as specified hereinbefore except where sheet metal types are shown, in which case, furnish such sheet metal enclosures in NEMA 4X 316 stainless steel construction with gasketed covers of same material.

B. Pullboxes and junction boxes whose volume is 100 cubic inches and greater shall be NEMA 4X 316 grade stainless steel type with gasketed stainless steel covers. Provide print pocket and interior back panel for mounting of terminal strips where terminal strips are called for on the drawings. Sheet metal boxes shall be as manufactured by Hoffman or equal.

C. Covers for sheetmetal pullboxes and junction boxes over 100 cubic inches (and for smaller sized where shown) shall have hinged doors. All hardware shall be 316 stainless steel.

D. Cast metal junction boxes shall be cast aluminum type with gasketed, cast metal covers and with stainless steel cover screws.

2.05 LABELS

A. Buried conduit marking tape for marking path of secondary buried conduits shall be four (4") inch nominal width strip of polyethylene with highly visible, repetitive marking "BURIED CONDUIT" or similar language, repeated along its length.

B. Voltage warning labels for cabinets shall be waterproof vinyl strips with adhesive back and shall have "DANGER (VOLTAGE) - DISCONNECT ALL SOURCES OF POWER BEFORE ENTERING". Letters shall be highly visible red color on white background.

2.06 SUPPORTING DEVICES

A. Mounting hardware, nuts, bolts, lockwashers, and washers, shall be Grade 304 stainless steel.

B. Unless otherwise indicated, channel framing and supporting devices shall be manufactured of ASTM 6063, TO6 grade aluminum; 1-5/8" wide x 3-1/4" deep (double opening type). Clamp nuts for use with channels shall be grade 316 stainless steel.

C. Where indicated, furnish grade 316 stainless steel slotted channel members 1-5/8" wide x 1-5/8" deep or 1 5/8" x 3 1/4" deep, double-faced type. All hardware and conduit clamps shall be grade 316 stainless steel.

D. Conduit clamp supports for terminating conduits onto cable trays shall be mechanically galvanized malleable iron with adjustable angle clamp. Fittings shall be provided with 316 stainless steel hardware. Furnish OZ/Gedney type CTC products.

E. All such channel members and fittments shall be B-Line, Unistrut or equal.

F. Conduit straps, and associated nuts, lockwashers and bolts for use with channels shall be 316 stainless steel with 316 stainless steel hardware. Furnish B-Line products or equal.

G. After-set concrete inserts (drilled expansion shields "D.E.S.") shall consist of two types. For anchors to accommodate 5/16" diameter bolts and smaller, provide HILTI "HDI" series 304 stainless steel anchors. For anchors to accommodate 3/8" diameter and larger bolts, provide HILTI "HVA" series with 316 stainless steel threaded inserts.

H. Hanger rod shall be 3/8" minimum diameter Type 316 stainless steel all-thread.

I. One hole conduit clamps shall be two piece nest-back or clamp-back type constructed of cast malleable iron or cast copper-free aluminum. The material shall match the conduit. Furnish Crouse-Hinds series 500 clamp and series CB spacer, T&B series 1270/1280 clamp + series 1350 spacer (add suffix "al" for aluminum items for T&B parts), OZ\Gedney 14G clamp + series 141G spacer + 141NG nestback (if required), or equal. Finish for malleable iron items shall be hot dip galvanized

J. Conduit beam clamps shall be hot-dip galvanized malleable iron and shall be as follows:

TYPE	MANUFACTURER
Right Angle	OZ/Gedney Type "UBCG", or equal.
Parallel	OZ/Gedney Type "UPCG", or equal.
Edge	OZ/Gedney Type "UECG", or equal.

K. Hanger rod beam clamps shall be clamp type with hardened steel, bolt, Steel City "500" Series, Crouse-Hinds series "500", or equal. Furnish swivel stud for each rod make- up.

L. Conduit "J" hangers shall consist of steel straddle with detachable bolt. Finish shall be electro-galvanized. Furnish Kindorf type "C-149", Unistrut "J-1200" Series, or equal.

M. Conduit "U" bolts shall be hot-dip galvanized steel with 316 stainless steel hex-head bolts.

N. Equipment stands for supporting devices such as control stations, device boxes and the like, shall consist of a welded structural steel c-channel and plate steel floor plate as detailed on the drawings. Equipment stands shall be hot-dipped galvanized after fabrication.

2.07 MISCELLANEOUS MATERIAL

A. Double bushings for insulating wiring through sheet metal panels shall consist of mating male and female threaded phenolic bushings. Phenolic insulation shall be high-impact thermosetting plastic rated 150 degrees C. Furnish OZ Type "ABB", or equal.

B. Conduit pull-cords for use in empty raceways shall be glass-fiber reinforced tape with foot-marked identification along its length. Furnish Thomas, Greenlee, or equal products.

C. Conduit thread coating compound shall be conductive, non-galling, and corrosion-inhibiting. Furnish Crouse- Hinds Type "STL", Appleton Type "ST", or equal.

D. Plastic compound for field-coating of ferrous material products shall be PVC in liquid form that sets-up semi- hard upon curing. Furnish Rob Roy "Rob Kote", Sedco "Patch Coat", or equal.

E. Zinc spray for coating galvanized steel threads shall be Research Laboratory type "LPS", Mobil "Zinc-Spray" or equal conductive zinc-rich spray enamel product.

F. Foam sealant for waterproofing uses shall be "AV280 Hydrofoam" by Avanti Internarional of Webster, Texas or equal.

PART 3 - EXECUTION

3.01 RACEWAYS

A. Install the conduit system to provide the facility with the utmost degree of reliability and maintenance free operation. The conduit system shall have the appearance of having been installed by competent workmen. Kinked conduit, conduit inadequately supported or carelessly installed, do not give such reliability and maintenance free operation and will not be accepted.

B. Raceways shall be installed for all wiring runs, except as otherwise indicated.

C. Conduit sizes, where not indicated, shall be N.E.C. code-sized to accommodate the number and diameter of wires to be pulled into the conduit. Unless otherwise indicated, 3/4" trade-size shall be minimum size conduit.

D. Unless otherwise noted, conduit runs shall be installed exposed. Such runs shall be made parallel to the lines of the structure. Conduit shall be installed such that it does not create a tripping hazard or an obstruction for headroom.

E. All runs of rigid conduit shall be threaded, and all male threads shall be coated with non-galling thread compound prior to assembly.

F. Plastic coated metallic conduit lengths shall be joined with threaded metallic coupling that shall be each equipped with a 40 mil thickness sleeve that shall extend over the threads of the joined conduit. Each joint shall be watertight.

G. Field-cut threads in runs of plastic coated metallic conduit shall be cut with a special die that has rear reamed out oversize so as to slip over plastic coating. Do not attempt to cut threads on plastic coated conduit with regular dies, whereby plastic coating is skinned back to allow the incorrect die to be used. Coat all field-cut threads with cold-galvanizing spray, use two coats to provide 1-mil minimum coating thickness.

H. Conduit runs made in concrete pours or surface-mounted runs that are attached to the structure shall be equipped with an expansion/deflection fitting where they cross an expansion joint, or at every 100 feet.

I. Unless otherwise shown, conduit penetrations through floors located below enclosures, shall be made each with couplings set flush with the outside faces of the concrete pour. Each pair of couplings shall be joined with a threaded spool piece. Use coated aluminum or galvanized steel couplings.

J. Rigid metallic conduit runs shall have their couplings and connections made with screwed fittings and shall be made up wrench-tight. Check all threaded conduit joints prior to wire pull. Coat all male threads with Crouse-Hinds "STL" or equal, conductive lubricant prior to joining.

K. All conduit runs shall be watertight over their lengths of run, except where drain fittings are indicated. In which cases, install specified drain fittings.

L. Plastic jacketed flexible steel conduit shall be used to connect wiring to motors, limit switches, bearing thermostats, and other devices that may have to be removed for servicing. Unless otherwise indicated, maximum lengths of flex shall be three (3') feet.

M. Where plastic jacketed flex is installed, make up terminal ends with liquid-tight flex connectors. In wet locations, install sealing gaskets on each threaded male connector. Each flex connector shall be made-up tightly so that the minimum pull-out resistance is at least 150 lbs. Install external spirally-wrapped ground wire around each run of liquid-tight flex and bond each end to specified grounding-type fittings.

N. Empty conduits shall have pull-ropes installed. Identify each terminus as to location of other end and trade size of conduit. Use blank plastic waterproof write-on label and write information on each label with waterproof ink. Pull a mandrel through each conduit to check and clear blockage before installing pull-rope. Owner's representative shall witness test. Provide documentation that all conduits are clear and ready for future use. Cap exposed ends of empty conduit with threaded plugs.

O. Conduit runs into boxes, cabinets and enclosures shall be set in a neat manner. Vertical runs shall be set plumb. Conduits set cocked or out of plumb will not be acceptable.

P. Conduit entrances into equipment shall be carefully planned. Cutting away of enclosure structure, torching out sill or braces, and removal of enclosure structural members, will not be acceptable.

Q. Use approved hole cutting tools for entrances into sheet metal enclosure. Use of cutting torch or incorrect tools will not be acceptable. Holes shall be cleanly cut and they shall be free from burrs, jagged edges, and torn metal.

R. All raceways shall be swabbed clean after installation. There shall be no debris left inside. All interior surfaces shall be smooth and free from burrs and defects that would injure wire insulation.

3.02 CONDUIT BODIES AND BOXES

A. Conduit bodies such as "LB", "T", "GUAT", etc., shall be installed in exposed runs of conduit wherever indicated and where required to overcome obstructions and to provide pulling access to wiring. Covers for such fittings shall be accessible and unobstructed by the adjacent construction. GUA series pulling bodies rather than LB fittings and the like, shall be used for splicing purposes as well as pulling access.

B. Covers for all conduit bodies shall be installed with gasketed cast metal type where located in damp or wet locations.

C. All conduit boxes installed whose inside volume is less than 100 cubic inches shall be cast metal type with gasketed cast metal cover, unless otherwise indicated.

D. All conduit boxes whose inside volume exceeds 100 cubic inches shall be sheet metal type except where gasketed cast metal type, stainless steel or fiberglass reinforced polyester are indicated.

3.03 RACEWAY SUPPORT

A. All raceway systems shall be adequately and safely supported. Loose, sloppy and inadequately supported raceways will not be acceptable. Supports shall be installed at intervals not greater than those set forth by the NEC, unless shorter intervals are otherwise indicated, or unless conditions require shorter intervals of supports.

B. Multiple runs of surface mounted conduit on concrete or masonry surfaces shall be supported off the surface by means of aluminum channels. Attach each slotted channel support to concrete surface by means of two (2) 1/4" diameter stainless steel bolts into drilled expansion shields.

C. Single runs of surface mounted conduit on concrete or masonry surfaces shall be supported with hot-dipped malleable iron conduit clamps and nest-back spacers. Furnish plastic coated malleable iron conduit clamps and nest backs where corrosive areas are called out.

D. Conduit runs that are installed along metallic structures shall be supported by means of hot-dipped galvanized beam clamps as specified herein.

3.04 LABELING

A. In addition to labeling requirements as specified throughout this and other Sections, install wiring and raceway labeling as follows:

1. Apply write-on identification to empty conduits to identify each conduit as to terminus of other end and also to identify trade size of conduit.

2. Where active conduits terminate into bottoms of motor control centers, install label on each conduit terminus and show number and size of wiring and function of circuitry and trade size of conduit.

END OF SECTION

PART 1 - GENERAL

1.01 SCOPE

A. This section shall include wire and cable, terminating devices, splice kits, labeling, and appurtenances.

1.02 STANDARDS

A. ASTM

B. UL 1277 Electrical Power and Control Tray Cables

C. UL 1685 Flame Exposure Test for Tray Cables

D. ICEA T-29-520 Vertical Cable Tray Flame Test

E. IEEE 1202 Flame Testing of Cables for use in Cable Tray

1.03 SUBMITTALS AND SHOP DRAWINGS

A. Process catalog submittals for the following:

1. Power and control cable
2. Instrument cable
3. Conductor Connectors
4. Tape Products
5. Labels

PART 2 - PRODUCTS

2.01 WIRE AND CABLE

A. All conductors shall be soft-drawn annealed copper, Class B stranding that meets ASTM B-8. Copper conductors shall be uncoated, except as otherwise specified.

B. Single conductor cable for power, control, and branch circuits shall have cross-linked polyethylene insulation, rated for 600 volts. Cable shall be NEC type XHHW-2. All such cable shall be rated for wet or dry use. Cable insulation shall be color coded with factory pigmented colors below size #6 awg. Color coding shall be as specified under Part 3 of this section. Cable shall be as manufactured by Southwire or equal.

C. Instrument cable for analog circuits, shall be # 16 awg, twisted shielded pairs or triads with PVC insulation and overall jacket. Cable assembly shall be rated for 600 volts, wet or dry locations. Furnish Okonite "Okoseal-N Type P-OS" or approved equal.

D. Single conductor cable for 24 volt dc control shall be minimum size #16. Furnish MTW type insulation for panel wiring and XHHW-2 insulation for field wiring in conduits.

E. Single conductor cable 1/0 and above for use in cable trays shall be rated for CT (cable tray) use. Insulation shall be cross-linked polyethylene, XHHW-2. Furnish Southwire XHHW/TC or approved equal.

F. Multi-conductor power cable for use in cable trays shall be 600 volt and rated for CT use. Cable assembly shall be three or four conductor with ground conductor. Insulation of each conductor shall be cross-linked polyethylene, XHHW. Ground shall be bare. Cable assembly shall have an overall PVC jacket. Furnish Southwire type TC or approved equal.

G. Multi-conductor control cable for use in cable trays shall be 600 volt and rated for CT use. Insulation of each conductor shall be cross-linked polyethylene, XHHW. Cable assembly shall have an overall PVC jacket. Furnish Southwire type TC Control Cable or approved equal.

H. Multi-conductor instrumentation cable for use in cable trays shall be 600 volt rated and rated for CT use. Cable assembly shall consist of shielded pairs or triads with overall shield and Nylon jacket. Conductor insulation shall be flame retardant PVC. Furnish Okonite Company “Okoseal-N Type SP-OS or approved equal.

I. Multiconductor cable for connection of the output of VFDs to motors shall be 90 deg C rated, 2000 volt copper conductors with RHW insulation, copper tap shield and groiund conductors. Furnish Service Wire Company "ServiceDrive" or equal cable.

J. Ground mat and associated upcomers and grounding conductors shall be tin-plated stranded copper.

K. Cable for RS485 applications shall be Belden #9841.

L. Telephone cable for underground shall be solid conductor 22 awg and shall meet REA Specification PE-39. Furnish HWC series N08022-XX in pair numbers as indicated on the drawings.

M. Telephone cable for inside of buildings shall be unshielded, twisted pair, solid conductor 24 awg and shall be in pairs as indicated on the drawings. Furnish Belden model 9562 (two pair), 9566 (six pair), 9570 (ten pair), or 9585 (twenty five pair).

N. Fiber optic cable shall be 6 fiber count cables. Cable shall be 62.5 um multimode and shall be suitable for installation in conduit. Furnish Corning FREEDM One Riser Cables.

2.02 CONNECTORS

A. Mechanical connectors for 600V class wiring shall be tin-plated copper alloy bolted pressure type with bronze tin-plated hardware. Furnish connectors as follows:

TYPE	MANUFACTURER & TYPE
Single conductor to flat-plate connector	Blackburn LH
Multiple conductor to flat-plate connector	Blackburn L2H, L3H, L4H
Split-bolt connector	Blackburn HPS
Two-bolt parallel connector with spacer	Blackburn 2BPW
Cross Connector	Blackburn XT

Splice Connector Blackburn S

Flush ground connector OZ Type "VG"

B. Insulated spring wire connectors, "wire-nuts", for small building wire taps and splices shall be plated spring steel with thermoplastic jacket and pre-filled sealant. Connector shall be rated for 600 volts, 75 degrees C continuous. Furnish King Technology, or equal.

C. Connectors for control conductor connections to screw terminals shall be crimp-type with vinyl insulated barrel and tin-plated copper ring-tongue style connector. Furnish T&B "Sta-Kon", 3M "Scotchlok", or equal.

D. Terminal strips for miscellaneous field terminations of control and instrumentation circuits shall consist of 12 point box lug terminals with marking surface. Terminal assembly shall accept #18 to #12 awg and shall be rated 600 volts. Furnish Allen-Bradley #1492-HJ812 terminal blocks.

2.03 INSULATING PRODUCTS

A. Tape products shall be furnished as hereinafter specified and shall be Plymouth, Okonite, 3M, or equal.

B. General purpose electrical tape shall be 7 mil thick stretchable vinyl plastic, pressure adhesive type, "Slipknot Grey", 3M Scotch 33+, or equal.

C. Insulating void-filling tape and high voltage bedding tape shall be stretchable ethylene propylene rubber with high-tack and fast fusing surfaces. Tape shall be rated for 90 degrees C continuous, 130 degrees C overload, and shall be moisture-proof. Void filling tape shall be "Plysafe", 3M Scotch 23, or equal.

D. High temperature protective tape shall be rated 180°C continuous indoor/outdoor, stretchable, self-bonding silicone rubber. High temperature tape shall be Plysil #3455, 3M Scotch 70, or equal.

E. Insulation putty filler-tape shall be Plymouth #32074, 3M Scotchfill, or equal.

F. Arc and fireproofing tape shall be Plymouth #3318, 3M Scotch #70 or equal.

2.04 LABELS

A. Colored banding tape shall be 5 mil stretchable vinyl with permanent solid color. Colors shall be as hereinafter specified. Tape shall be Plymouth "Slipknot 45", 3M Scotch #35, or equal.

B. Numbered wire marking labels shall be PVC sleeve-type markers, T&B, Brady or equal. Markers using adhesive are not acceptable.

C. Cable identification ties shall be weather resistant polyester with blank write-on space, T&B, Brady or equal.

2.05 MISCELLANEOUS MATERIAL

A. Cable grips shall be 316 SS grip-type wire mesh with machined metal support. Furnish Kellems, Appleton, or equal products.

B. Wire pulling compound shall be non-injurious to insulation and to conduit and shall be lubricating, non- crumbling, and non-combustible. Furnish Gedney "Wire- Quick", Ideal "Yellow" or equal.

C. Fiber Optic Patch Panels shall be 12 fiber with SC connectors. Furnish Corning SPH-01P units. Furnish two patch panels per RTU enclosure. One shall be for the 6 fiber cable ring and the other shall be for interconnection of fiber optic cables for the video surveillance system cameras.

D. Patch cables shall be factory terminated and tested in lengths as needed with SC or ST connectors as required. Furnish Industrial Networking Solutions or equal products.

E. Conduits for concrete encased ductbanks that are supported by piers shall be fiberglass conduits manufactured by Champion.

PART 3 - EXECUTION

3.01 POWER AND CONTROL CABLE

A. Power and control conductors shall be sized as shown and where no size is indicated, the conductor size shall be #12 awg for power circuits #14 awg for 120 vac control circuits, and #16 awg for instrumentation circuits.

B. Equipment grounding conductors shall be installed with type XHHW insulated stranded copper conductors and the insulation color shall be green in sizes up to and including #10 awg.

C. Color coding shall be as follows. Non-factory color coded cables shall be marked with specified color tape. Use the following colors:

CONDUCTOR	120/208V SYSTEMS	480V SYSTEMS
Phase A or L1	Black	Brown
Phase B or L2	Red	Orange
Phase C	Blue	Yellow
Neutral	White	N/A
Ground	Green	Green

D. Branch circuits may be spliced for receptacle, lighting and small appliance load inside appropriate junction boxes. Feeders, branch circuit, power wiring, control wiring, and signal wiring shall be installed without splice.

E. Except as otherwise specified, taps and splices with #10 AWG and smaller, shall be made with insulated spring wire connectors. Such connectors in damp or wet locations shall be waterproofed by filling interstices around wires with silicone rubber and further insulating with an envelope of stretched piece of EPR tape around each wire. Then, apply one-half lapped layer of electrical tape over all.

F. Motor connections made with #10 AWG and smaller wire shall be made up with set-screwed copper lugs with threaded-on insulating jacket. After make-up of each connector, install two (2)

layers half-lapped, of high temperature tape over connector barrel and down one (1") inch over wires.

G. Taps, splices, and connections in #8 AWG and larger wires shall be made with copper alloy bolted pressure connectors. Each such connector shall be insulated by means of applying insulation putty over sharp edges so as to present a smooth bonding surface. Next, apply at least four (4) layers, half-lapped each layer of EPR tape. Then, make final wrapping of at least three (3) layers, half-lapped each layer of electrical tape.

H. Control wiring connections to stud type and screw type terminals shall be made with ring-tongue type crimp connectors. Label each terminal jacket with wire marking label at each connection.

I. Each wire connection shall be made up tightly so that resistance of connection is as low as equivalent length of associated conductor resistance.

J. Numbered marking labels shall be installed to identify circuit numbers from panelboards. Install labels on each wire in each panelboard, junction, pullbox and device connection.

K. Label each wiring run with write-on waterproof labels inside motor control center. Install write-on label ties around wire group at conduit entrance and write-on label the wire size, conduit size and service.

L. Install PVC sleeve type numbered marking on each control wire termination at each terminal strip and at each device. Do this in motor control center, terminal cabinets, safety switches, remote controllers, pilot operators, and instrumentation equipment. Number selected shall correspond to number on terminal strip.

M. All wiring inside equipment enclosures shall be neatly trained and laced with nylon tie-wraps.

N. Tie wrap cables in tray.

3.02 INSTRUMENTATION WIRING

A. All 4-20mA analog pairs shall have shields grounded at the instrumentation panel and insulated on the field end unless otherwise required by instrument supplier. Single point grounding shall be maintained.

3.03 GROUND WIRING

A. Each item of equipment shall be adequately and thoroughly grounded. Comply with Article 250 of N.E.C., except where higher standards of grounding have been specified. In addition to requirements as specified under Section 26 04 50, install grounding for general wiring systems as follows.

B. Equipment grounding conductors (EGC) shall be installed in each run of power and control conduits. These wires shall be green colored in sizes #6 AWG and smaller and green banded in larger sizes. Ground wires shall be type XHHW-2 insulated copper wires.

C. EGC runs into equipment shall be grounded to equipment bus where available, or to equipment ground lugs.

D. Where grounding type bushings are installed, bond EGC thereto, and furthermore, ground each bushing lug to equipment ground bus or ground lug, or ground rod.

E. In each motor terminal box, install equipment ground lug and connect EGC thereto. Bond pump frame to motor frame. Bond motor and pump to grounded electrode conductor.

F. Run continuous ground in tray, bond to each section and to all switchgear, panels, and transformers.

3.04 LABELING

A. In addition to labeling requirements as specified throughout this Section, install wiring and raceway labeling as follows:

1. Apply numbered wire marking labels to control wiring terminations for each termination in each item of equipment. Use PVC sleeve type labels.

2. Apply numbered wire marking labels to power and control wiring terminations in motor control centers, panelboards, and at outlets, to identify circuit numbers. Use PVC sleeve type labels.

3. Apply numbered wire marking labels to each signal wire termination in each instrument junction box, and in each item of equipment served by instrumentation circuits. Use PVC sleeve type labels.

4. Apply write-on identification labels to wiring sets in each motor control center, and in each pullbox and junction box. Show wire size, conduit size, and line and load information. Use waterproof plastic write-on labels with nylon tie-wraps.

3.05 TESTING

A. Each run of 600V class power and control wiring shall be tested prior to connection of line and load. Make tests with 1000V dc hand-crank or motor driven ohmmeter. Each run of wiring shall be tested phase-to-phase and/or phase-to-neutral, and phase-to-ground. Test results for each test shall be equal to or greater than 25,000,000 ohms with 1000V dc applied. All tests shall be made in the presence of the Owners representative or Engineer.

B. Test all runs of signal wiring with 250V dc megger. Insulation values shall meet or exceed 1,000,000 ohms per 100 feet (cable to shield).

C. Should any cable or circuit fail to meet the above tests, replace wire and retest.

END OF SECTION

No specifications on this page for formatting purposes.

PART 1 - GENERAL

1.01 SCOPE

A. This specification covers the requirements for generator distribution panelboards.

B. This specification defines minimum requirements, characteristic guidelines and features required.

1.02 STANDARDS

A. All panelboards shall be designed, manufactured and tested in accordance with the latest applicable standards of UL and NEMA. Panelboards shall be UL listed.

1.03 SUBMITTALS

A. Submit outline and dimensional drawings and catalog literature to Engineer for review.

PART 2 - PRODUCTS

2.01 GENERAL

A Panel and Main breaker AIC Ratings shall be as indicated on the drawings.

B Branch circuit Breakers shall be rated 14,000 amps rms symmetrical interrupting capacity.

C Panelboards shall have integrated SPD rated for 200 kA. Provide alarm contacts, event counter, and indicator lights.

2.02 CONSTRUCTION

A. All buses shall be tin-plated copper.

B. Enclosures shall be painted steel.

C. NEMA 3R for installation outdoors.

2.03 MANUFACTURER

A. Panelboards shall be Square D type I-Line or equal.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install panelboards as scheduled and in locations shown on the drawings. Provide grounding as specified per 26 04 50 and per NEC.

PART 4 - PAYMENT

4.01 PAYMENT

A. Payment for electrical shall be made on a unit price basis as shown in the Bid Schedule and shall constitute full payment for these items.

END OF SECTION

1. Spec Notes

   A. Summary of statement of work provided by engineering firm.

2. Intent

   A. It is the intent of these specifications to provide in operating condition an on-site standby electrical power generation system as appropriate for the location and conditions. The system shall include, but not be limited to.

      1. Engine-generator
      2. Cooling system
      3. Sub-base fuel tank
      4. Fuel delivery system
      5. Starting batteries
      6. Battery charger
      7. Exhaust system
      8. Weather protective enclosure
      9. Block heater
      10. Circuit breaker
      11. Conduit
      12. Wire fittings
      13. Accessories required to provide a complete operating system.

   B. The generator shall be of certified output as manufactured by Blue Star Power Systems, Inc. or prior approved equal.

   C. The manufacturer must be 100% American owned. Any request for approval of an alternate product or supplier must be receive no later than 21 days prior to the bid date. This request must include a paragraph by paragraph statement of compliance or deviation to the written specification.

   D. Any requests for deviations to the specification must include adequate, specific engineering data to warrant approval. Any request for approval of a different supplier other than that specified above must include a complete history of past performance and references detailing past success in furnishing a unit of the size specified. A minimum of three references shall be furnished along with contact person's name and contact information. Requests for approval that are incomplete, inaccurate or that cause the specifier to ponder as to what is being offered to meet the requirements of the specification will be rejected. There will be no exceptions to these requirements.

3. Submittals

   A. Current application literature completely describing the engine generator set, including complete engine and generator engineering data sheets.

   B. Current applicable literature describing all accessories.

C. Complete dimensional and electrical drawings locating accessories, anchor bolt and mounting dimensions, fuel, exhaust and cooling piping connections. All information will be coordinated with the installing contractor.

4. Rating: Standby

A. The generator set shall deliver its full output rating continuously for the duration for any normal power failure. This rating is applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating.

B. The generator set shall be capable of being operated at rated power until the normal power is restored.

C. The standby generator set shall be started and accelerated to rated speed immediately upon loss of normal power when equipped with cold ambient starting aids such as an engine jacket water heater.

D. The generator set shall accept 100% of rated load in one step up to the engine capability to recover to rated speed.

5. Environment

A. The engine generator set shall be capable of producing rated kW and kVA when operating at 500 ft (152 m) altitude, and ambient temperature range of 0°F (-18°C) minimum to 122°F (50°C) maximum.

B. The generator set manufacturer shall provide data to verify the generator set will operate as required in the specified altitude and ambient conditions.

II. Engine and Components

1. Starting System

A. The engine will be equipped with an electric, DC starting motor, positive engagement, of enough capacity to crank the engine to starting speed for a minimum of one minute, at the specified ambient temperature without overheating.

2. Diesel Fuel System*
(*Only applies for all sites except for Community Center. This site utilizes a natural gas generator and the following subsections A. B. Do not apply.)

A. The fuel storage tank, fittings, valves, gauges and piping shall be supplied by the generator set manufacturer in accordance with NFPA 30, UL142, applicable local codes and as specified within.

B. Flexible fuel connectors shall be supplied to isolate engine vibration to the fuel system components.

3. Cooling System: Radiator

A. Unit mounted radiator will be furnished complete with a blower fan and 50% glycol coolant.

B. The maximum external radiator airflow restriction shall not exceed 0.5 " WC

C. The cooling system will be sized to maintain a safe engine operating temperature at the specified ambient and altitude conditions. D. Proper cooling system exhaust airflow ducting must be used to prevent recirculation overheating.

4. Exhaust System: Critical Grade

A. An Exhaust silencer rated Critical Grade shall be furnished of industrial standard construction, all welded, for stationary engine applications.

B. The silencer shall attenuate exhaust noise to a critical level.

C. A seamless, stainless steel convoluted flexible exhaust connector shall be provided where required to isolate engine vibration and thermal expansion from the exhaust system components. Long radius, low restriction fittings will be used throughout, and pipe size will be sufficiently sized to handle the engine exhaust volume, at the specified conditions without exceeding the maximum allowable back pressure as specified by the engine manufacturer.

5. Engine Lubrication System

A. The engine shall be furnished with a gear type lube oil pump that will furnish oil under pressure to moving engine components. Full flow lube oil filters shall be provided in addition to a bypass valve that will allow lube oil circulation in the event of excessive restriction of the filtering system.

6. Governing System: Isochronous Zero Speed Droop Governing System

A. The engine generator set shall be provided with an isochronous electronic governor of the constant speed type.

B. The governor shall be capable of maintaining a steady state frequency bandwidth of not more than ±0.25%, at any constant load, from no load to full load.

7. Engine Starting Battery

A. A lead-acid, heavy duty battery system shall be furnished of enough capacity to provide a minimum of five full cycle starts for ten seconds of engine cranking time with ten second rest periods between start attempts at the specified ambient conditions.

B. The lead acid battery will be 12 volt or 24 volts as required by the engine specification.

C. The commercial type lead acid battery will include a manifold vent which directs corrosive gases away from the electrical connections and cables.

D. The cells of the battery will be bonded, and the partition inter-cell connectors will create a shorter current path to deliver more power to the battery terminals.

8. Battery Charger: 5 Amp

A. The charger shall be of the two stage, completely automatic, variable current output type and shall be 5- or 6-amp minimum output current at the required system DC voltage.

B. Charger shall incorporate automatic current limiting with a rectangular current limit characteristic and shall be capable of operating into a short circuit or dead battery indefinitely without damage or overheating.

C. Charger shall be equipped with output fuses on the charging leads to prevent charging errors due to long cable runs.

9. Engine Block Heater

A. An engine cooling jacket water heater shall be provided which will be thermostatically controlled to maintain the engine block at a suitable temperature to assure rapid starting under the specified ambient temperature.

B. The heater operating voltage should match the utility voltage available at the installation site. C. The heater will be of the industrial tank type with thermo-syphon or pump assisted circulation.

III. GENERATOR AND COMPONENTS

1A. City Hall Generator Performance Rating

A. Rated kW: 300 kWe
B. Volts: 277/480
C. PF: .8
D. Hertz: 60
E. RPM: 1800
F. Temp Rise: 130 Deg C

G. Ambient Temp: 27 Deg C

1B. City Hall Mainline Circuit Breaker:

A. Breaker : 450 amps
B. Rating: Standard 80%
C. Shunt: No
D. Aux: No
E. Ground Fault: No
F. Bell Alarm: No

A. UL listed molded or insulated case main output circuit breaker, sized to suit the rated voltage and current of the unit must be mounted in a
NEMA rated enclosure at the unit manufacturers' facility prior to unit shipment.

B. The line side breaker connections are to be terminated at the factory.

C. Any system utilizing a manual reset exciter field circuit breaker and/or current transformers is unacceptable.

2A. Community Center Generator Performance Rating

A. Rated kW: 250 kWe
B. Volts: 120/208
C. PF: .8
D. Hertz: 60
E. RPM: 1800
F. Temp Rise: 130 Deg C
G. Ambient Temp: 27 Deg C

2B. Community Center Mainline Circuit Breaker:

A. Breaker : 800 amps
B. Rating: Standard
C. Shunt: No
D. Aux: No
E. Ground Fault: No
F. Bell Alarm: No

A. UL listed molded or insulated case main output circuit breaker, sized to suit the rated voltage and current of the unit must be mounted in a
NEMA rated enclosure at the unit manufacturers' facility prior to unit shipment.

B. The line side breaker connections are to be terminated at the factory.

C. Any system utilizing a manual reset exciter field circuit breaker and/or current transformers is unacceptable.

3A. Coyote Branch Library Generator Performance Rating

A. Rated kW: 300 kWe
B. Volts: 277/480
C. PF: .8
D. Hertz: 60
E. RPM: 1800
F. Temp Rise: 130 Deg C
G. Ambient Temp: 27 Deg C

3B. Coyote Branch Library Mainline Circuit Breaker:

A. Breaker : 1000 amps
B. Rating: Standard 80%
C. Shunt: No
D. Aux: No
E. Ground Fault: No
F. Bell Alarm: No

A. UL listed molded or insulated case main output circuit breaker, sized to suit the rated voltage and current of the unit must be mounted in a NEMA rated enclosure at the unit manufacturers' facility prior to unit shipment.

B. The line side breaker connections are to be terminated at the factory.

C. Any system utilizing a manual reset exciter field circuit breaker and/or current transformers is unacceptable.

4A. Fleet Management Generator Performance Rating

A. Rated kW: 100 kWe
B. Volts:120/240 (3Φ) High Leg Delta
C. PF: .8
D. Hertz: 60
E. RPM: 1800
F. Temp Rise: 130 Deg C
G. Ambient Temp: 27 Deg C

4B. Fleet Management Mainline Circuit Breaker:

A. Breaker : 200 amps Rating: Standard 80% Shunt: No
B. Aux: No
C. Ground Fault: No
D. Bell Alarm: No

A. UL listed molded or insulated case main output circuit breaker, sized to suit the rated voltage and current of the unit must be mounted in a NEMA rated enclosure at the unit manufacturers' facility prior to unit shipment.

B. The line side breaker connections are to be terminated at the factory.

C. Any system utilizing a manual reset exciter field circuit breaker and/or current transformers is unacceptable.

5A. City Fuel Yard Generator Performance Rating

A. Rated kW: 30 kWe
B. Volts:120/240 (1Φ)
C. PF: .8
D. Hertz: 60
E. RPM: 1800
F. Temp Rise: 130 Deg C
G. Ambient Temp: 27 Deg C

5B. City Fuel Yard Mainline Circuit Breaker:

A. Breaker : 100 amps
B. Rating: Standard 80%
C. Shunt: No
D. Aux: No
E. Ground Fault: No
F. Bell Alarm: No

A. UL listed molded or insulated case main output circuit breaker, sized to suit the rated voltage and current of the unit must be mounted in a
NEMA rated enclosure at the unit manufacturers' facility prior to unit shipment.

B. The line side breaker connections are to be terminated at the factory.

C. Any system utilizing a manual reset exciter field circuit breaker and/or current transformers is unacceptable.

6A. Saide Recreation Center Generator Performance Rating

A. Rated kW: 175 kWe
B. Volts:120/208 (3Φ)
C. . PF: .8
D. Hertz: 60
E. RPM: 1800

F. Temp Rise: 130 Deg C
G. Ambient Temp: 27 Deg C

6B. Saide Recreation Center Mainline Circuit Breaker:

A. Breaker : 600 amps
B. Rating: Standard 80%
C. Shunt: No
D. Aux: No
E. Ground Fault: No
F. Bell Alarm: No

A. UL listed molded or insulated case main output circuit breaker, sized to suit the rated voltage and current of the unit must be mounted in a NEMA rated enclosure at the unit manufacturers' facility prior to unit shipment.

B. The line side breaker connections are to be terminated at the factory.

C. Any system utilizing a manual reset exciter field circuit breaker and/or current transformers is unacceptable.

7. Construction-PMG Design

A. The power generator will be of the salient pole synchronous type. The generator will be rated at 60 Hertz.

B. The generator will be equipped with amortisseur windings to facilitate parallel operation and application to waveform distorting loads.

C. The generator will be of the single bearing type with flange-mounted design.

D. The bearing will be a sealed, frictionless, cartridge type. The coupling will be a laminated steel, semi-flexible, piloting type drive disc.

E. The excitation system will be of the brushless design.

F. Insulation class will be in accordance with the most recent NEMA_MG1.22.40 requirements for the generator at the specified ambient conditions and temperature rise.

G. The generator will be provided with a power terminal cabinet of adequate size for connection of load conductors. Permanent Magnet Generator system (when specified) must be of the true PMG design. Any other external means of excitation support is unacceptable.

H. The alternator shall be rated at the specified output with a maximum temperature rise of 130 deg. C in an ambient temperature of 27 Deg C.

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I. The generator shall be capable of supporting the minimum starting kVA (SkVA) required with a maximum instantaneous voltage dip of
30%. "Sustained" voltage dip figures are irrelevant and DO NOT meet the requirements of this specification.

J. Factory documentation of compliance to these requirements shall be included as part of the approval submittal prior to release to production.

K. 3600 rpm alternators will not be accepted.

L. No exceptions to these requirements will be allowed.

8. Generator Voltage Regulator

A. The voltage regulator shall be of digital, microprocessor design with solid state voltage build-up. Voltage build-up relays or other external devices are not acceptable.

B. The regulator shall be encapsulated for humidity, corrosion and abrasion protection.

C. The regulator shall provide 1.0% steady state regulation, true volts per hertz operation with adjustable cut in, loss of sensing continuity shutdown, over-excitation shutdown, RMS voltage sensing and over-voltage protection.

9. Control Panel

A. Functional Description: When the mode-selector switch on the control and monitoring panel is in the automatic position, remote-control contacts in one or more separate automatic-transfer switches initiate starting and stopping of the generator set. When the mode-selector switch is switched to the on position, the generator set manually starts. The off position of the same switch initiates generator-set shutdown. When the generator set is running, specified system or equipment failures or derangements automatically shut down the generator set and initiate alarms. Operation of a remote emergency-stop switch also shuts down the generator set.

B. Non-proprietary software/firmware.

C. Configuration: Operating and safety indications, protective devices, basic system controls, and engine gages are grouped on a common control and monitoring panel mounted on the generator set. Mounting method isolates the control panel from generator-set vibration. Owner-specified monitoring points shall be wired to a terminal strip provided at control panel for Owner's connection to Building Management System. Terminal strip shall be configured according to Owner's terminal designations as indicated on the drawings.

D. Indicating and Protective Devices and Controls: Include those required by NFPA 110 for a Level 1 system, and the following:

1. AC voltmeter.
2. AC ammeter.
3. AC frequency meter.
4. DC voltmeter (alternator battery charging).
5. Engine-coolant temperature gage.
6. Engine lubricating-oil pressure gage.
7. Running-time meter.
8. Ammeter-voltmeter, phase-selector switch(es).
9. Generator voltage adjusting rheostat.
10. Start-stop switch.
11. Overspeed shutdown device.
12. Coolant high-temperature shutdown device.
13. Coolant low-level shutdown device.
14. Oil low-pressure shutdown device.
15. Fuel tank rupture alarm.
16. Fuel tank high-level shutdown of fuel supply alarm.
17. Low battery alarm.
18. Battery charger malfunction alarm.

E. Supporting Items: Include sensors, transducers, terminals, relays, and other devices, and wiring required to support specified items. Locate sensors and other supporting items on engine, generator, or elsewhere as indicated. Where not indicated, locate to suit manufacturer's standard.

F. Remote Emergency-Stop Switch (when required will be shown on drawings): Flush wall-mounted, unless otherwise indicated and prominently labeled. Push button is protected from accidental operation.

10. Base Design

A. The mounting base shall be constructed of steel.

B. The base shall be designed to rigidly support the engine-generator set, ensure permanent alignment of rotating parts, be arranged to provide easy access to allow changing of lube-oil, and ensure that alignment is maintained during shipping and normal operation.

C. The base shall permit skidding in any direction during installation and shall withstand and mitigate the effects of synchronous vibration of the engine and generator set.

D. The base shall be provided with suitable holes for anchoring to a concrete support structure.

E. An engine lube oil drain must be plumbed to the exterior of the base with stainless steel lines and shut-off valves, and bulkhead fittings to easily allow the draining of the engine oil for maintenance purposes. Units rated 500 kW and higher must be supplied with heavy gauge

steel, removable, base mounted lifting brackets rated to lift the entire unit, complete with all accessories to facilitate setting the unit in place at the installation site.

11. Vibration Isolation

A. Units rated 500 kW and less shall be provided with fail-safe, dome type vibration isolation mounts to isolate normal unit vibration to the base structure.

B. Neoprene Pad type vibration isolation mounts of the proper size and quantity shall be provided to be placed between the unit base structure and the concrete support structure to minimize the transmission of vibration and deflection due to unevenness of the concrete mounting surface.

12. Fuel Storage*

(*Only applies for all sites except for Community Center. This site utilizes a natural gas generator and the following subsections A. B. Do not apply.)

A. A sub-base type fuel tank with a minimum capacity for 24 Hours of operation at 100% rated load shall be provided.

B. The tank shall be constructed to the UL142 Standard for Steel Above ground Tanks for Flammable and Combustible Liquid and be of double walled construction.

C. The tank shall be complete with required normal and emergency vents, openings, low level and leak alarm contacts and lifting provisions.

D. The fuel level indicator/sender shall be visible from the point of fill, and provide the necessary signal to the gen-set controller to allow remote monitoring and alarming of the fuel level.

E. The exterior finish is to be black baked polyurethane powder coat.

F. Any request for approval of an alternate tank must comply with the prior approval procedure previously stated.

13. Weatherproof/Sound Attenuated Enclosure

A. The gen-set outdoor enclosure shall be formed of minimum 14-gauge sheet metal with rear openings for air intake, and a punched opening panel in front of the radiator for cooling air exhaust.

B. The roof is to be pitched for increased structural integrity and watershed.

C. Hinged doors with Lockable handles, keyed alike with additional external padlock provisions shall be provided.

D. The engine exhaust silencer is to be mounted within the gen-set enclosure and shall be provided with a rain collar and rain cap or suitable termination to prevent the entrance of rain and debris.

E. The enclosure is to be finish painted with baked polyurethane powder coat with hammered texture finish in standard color White, Gray, or Tan.

F. The enclosure and exhaust system shall be designed to limit the noise level to 85 dBa at 23 feet when operating at full rated load.

14. Additional Requirements

N/A

IV. OPERATION AND MAINTENANCE

1. Factory Testing

A. The completed generator set shall be tested, and the Guaranteed Performance Certification shall be completed at the factory.

B. The test equipment and metering used shall have an accuracy class of 1% or better, shall be regularly calibrated, with current calibration records traceable to the National Bureau of Standards.

C. A certified copy of the unit specific test report shall be provided prior to shipment of the equipment.

D. All test procedures shall be performed in accordance with IEEE 115 and MIL STD 705 test methods.

E. Factory tests shall include but not be limited to the following. All readings shall be recorded on the test report:

- Minimum 1-hour load test
- Full, rated load at 1.0 PF
- Maximum load carrying capabilities of the engine generator set at 1.0 PF
- Maximum single block load pickup capability
- Kilowatts
- Amperes
- Voltage

- Kilovolt amperes
- Resistance of generator main and exciter stators
- Insulation test of the generator main field, main armature, exciter field, exciter armature
- Dielectric test of the generator main field, main armature, exciter field, exciter armature
- Lube oil pressure
- Water temperature
- Battery charge rate (if applicable)
- Heaters, jacket water and/or lube oil
- Safety shutdowns and automatic controls
- All accessories (remote annunciator panels, chargers, pumps Etc.)
- Phase sequence on three phase units
- Full load at .4PF to verify the motor starting capability of the engine generator set (optional)
- Frequency
- Full rated load at rated PF
- Maximum load, to verify engine power, overload and maximum capability.
- Frequency and voltage transient recordings at 0-25%, 0-50%, 0-75% and 0-100% rated load
- Frequency at maximum output
- Regulator adjustment range
- Voltage balance L-L & L-N

F. Testing shall include the following MIL-STD-705 test methods:

- Insulation Resistance Test
- High Potential Test
- Winding Resistance Test
- Open Circuit Saturation Curve Test
- Start and Stop Test
- Overspeed Protective Device Test
- Phase Sequence Test (Rotation)
- Phase Balance Test (Voltage)
- Rheostat Range Test
- Regulator Range Test
- Frequency Adjustment Range Test
- Low Oil Pressure Protective Device Test
- Over temperature Protective Device Test
- Controls, Direction of Rotation
- Maximum Power Test

G. All factory testing must be performed after the entire unit has been finished painted such that all paint residue and debris is burned off all engine exhaust components and other hot surfaces during the testing process.

H. Initial paint "burn-off" will not be allowed at the job-site start-up and testing.

2. Training

Conduct training course for operating staff as designated by the Contracting Officer. The training period shall consist of a total 8 hours of normal working time and shall start after the system is functionally completed but prior to final acceptance.

3. Installation

A. Comply with packaged engine-generator manufacturers' written installation and alignment instructions and with NFPA 110.

B. Install packaged engine generator to provide access, without removing connections or accessories, for periodic maintenance.

C. Install packaged engine generator to provide access, without removing connections or accessories, for periodic maintenance.

D. Electrical Wiring: Install electrical devices furnished by equipment manufacturers but not specified to be factory mounted.

4. Startup and Warranty Validation

A. The initial job-site start-up and warranty validation of the engine generator set and automatic transfer switch (if applicable) will be performed by an authorized service representative of the manufacturer.

B. The start-up procedure will include testing and instruction to site personnel of normal operation and maintenance of the actual unit and all accessories provided.

C. A two-hour full available building load test shall be conducted.

D. All systems shall be operated and tested for proper starting and stopping and transfer of the emergency power system.

5. Manufacturer's Product Period of Warranty

A. The standby electric generating system components, complete engine-generator and instrumentation panel shall be warranted by the manufacturer against defects in material and factory workmanship for a period of 2 Year / 2000 Hour Comprehensive.

B. Such defective parts shall be repaired or replaced at the manufacturer's option, free of charge.

C. The warranty period shall commence when the standby system is invoiced by the factory.

D. Multiple warranties for individual components (engine, alternator, controls, etc.) will not be acceptable.

E. Complete warranty documents must be provided.

PART 1 GENERAL

1.01 SCOPE

A. This section refers to all 120V/240V 1Φ, 120/240V 3Φ, 120/208V 3Φ and 277/480 volt automatic transfer switchgear.

B. The transfer switch shall be coordinated with the Emergency Generator and furnished by the generator supplier. Reference Section 26 02 20.

1.02 STANDARDS

A. The transfer switch shall be UL 1008 listed and labelled, with UL-type rated cabinets and UL listed CU-AL terminals. Circuit breakers shall be UL 489 listed.

B. The transfer switch shall be suitable for use in emergency, legally required and Standby applications per NEC 700, 701, and 702.

C. The transfer switch shall comply with NFPA 70,99, and 110 (Level 1 systems).

D. The transfer switch shall comply with NEMA ICS 10.

E. The transfer switch shall comply with IEEE 446 Recommended Practice for Emergency Power Systems.

F. Voltage surge performance and testing shall be in compliance with the requirements of IEEE C62.41 (Category B3) and IEEE C62.45.

G. The transfer switch shall be designed and manufactured in facilities certified to ISO9001.

1.03 SUBMITTALS

A. Process catalog submittals and shop drawings for automatic transfer switch in accordance with the requirements set forth in the Standard General Conditions.

PART 2 PRODUCTS

2.01 GENERAL

A. Automatic transfer switch shall be breaker based, two breaker type, designed for operation and switching loads between utility power and Standby generator sets. The transfer switch shall be suitable for use in emergency, legally required, and optional Standby applications. The transfer switch shall monitor both power sources, signals generator set startup, automatically transfers power, and returns the load to the primary source when the utility returns and stabilizes.

B. Transfer switching shall be accomplished using electrically operated power circuit breakers with integral over-current protection and draw-out functionally. Circuit breakers shall be UL 489 listed shall withstand a fault condition for up to 60 cycles. Transfer switch shall be UL listed for service entrance.

C. Transfer switch shall be 100 msec closed transition. The total transfer time shall not exceed 6 cycles with normal voltage applied.

D. Voltage rating shall be per each specific site design plan. See One-Line diagram of each individual project location.

E. Operating temperature range shall be -40 deg C to 60 deg C.

2.02 POWER CIRCUIT BREAKERS

A. Circuit breakers shall be draw-out, electrically-operated, with long, short, instantaneous and ground fault electronic trip units. Each breaker shall have an Arc Flash Reduction Switch.

B. Breaker close and trip circuits shall be 24 volts DC. Breaker charging power shall be derived from the connected AC source.

C. Breaker tripping shall cause that breaker's source to be considered failed. When the breaker is tripped, the control system shall initiate transfer to the alternate source. The control system shall log this as a fault condition separate from a source failure.

D. Breakers shall be bus-connected to load lugs with tin-plated copper bus. Bracing shall be rated at 100kA per UL standards.

E. Circuit breakers shall be rated 1600 amps at 480 volts with an interrupting rating of 65,000 amps rms symmetrical.

F. Breakers shall be Square D, Masterpact or approved equal.

2.03 CONTROL SYSTEM

A. Transfer switch shall have a microprocessor-based control with digital display. Controls shall allow operator to enter settings and make adjustments to software-enabled features. The controls shall measure load phase current, power factor, real power and apparent power. The controls shall monitor phase voltages for both sources for over/under voltage, loss of phase, and over/under frequency. Control system shall have optically isolated inputs and isolation transformers for AC power input. Control system shall be capable of communicating with the specified generator and owners SCADA system via Modbus RTU.

B. The control system shall be microprocessor based and developed specifically for automatic transfer switch operation.

C. The control system shall have non-volatile flash memory to store the settings. Settings shall not be lost if controller power is lost.

D. An onboard battery shall maintain the real-time clock setting and the engine start delay.

E. The controls shall be field configurable using the operator panel and manufacturers software. The operator panel shall have LED indicator panel for sources and available/connected status. The operator panel shall have Test/Exercise/Bypass buttons. The operator panel shall have an analog bar graph meter and digital display. The operator panel shall be password protected to limit access to settings to authorized personnel.

F. Control system shall have programmable exerciser with selectable "No Load" and "Test with Load" modes. Control system shall also have a test mode that allows the operator to simulate a power failure in the utility source and verify proper system operation. the test mode shall also have "No Load" and "Test with Load" modes.

G. The control system shall have relay signal module with auxiliary switches for remote indication. Contacts shall be 1) Source 1 Connected/Available, 2) Source 2 Connected/Available, 3) Not in Auto, 4) Test/Exercise Active, 5) Failed to Disconnect, and 6) Failed to Transfer/Retransfer.

H. The control system shall have a 50 event date/time stamped event recorder.

I. The control system shall have the following adjustable time delays:

1. Engine start: 0 to 120 seconds
2. Transfer normal to emergency: 0 to 120 seconds
3. Re-transfer emergency to normal: 0 to 30 minutes.
4. Programmed transition: 0 to 60 seconds.

J. The control system shall have the following three phase sensing for under-voltage on both sources:

1. Accuracy: +/- 2%
2. Pickup: 85% to 98% of nominal voltage
3. Dropout: 75% to 98% of pickup setting
4. Dropout time delay: 0.1 to 1.0 seconds

K. The control system shall have the following three phase sensing for over-voltage on both sources:

1. Accuracy: +/- 2%
2. Pickup: 95% to 99% of dropout setting
3. Dropout: 105% to 135% of nominal voltage
4. Dropout time delay: 0.5 to 120 seconds

L. The control system shall have the following over/under frequency sensing for both sources:

1. Accuracy: +/- 0.5 Hz
2. Pickup: +/-5% to +/-20% of nominal frequency
3. Dropout: +/-1% beyond pickup
4. Dropout time delay: 0.1 to 15 seconds

M. The control system shall have the following voltage imbalance sensing:

1. Dropout: 2% to 10%
2. Pickup: 90% of dropout
3. Time delay: 2.0 to 20 seconds

N. The control system shall have the following phase rotation sensing:

1. Time delay: 100 msec

2. Loss of single phase detection
3. Time delay: 100 msec

O. The control system shall have eight steps of load sequencing with adjustable time delay for each step on transfer and re-transfer.

P. Provide extended paralleling protection such that if both breakers are closed longer than 100 msec, the generator breaker shall be tripped.

2.04 CONSTRUCTION

A. Enclosure shall be NEMA 3R gasketed, front access only. Depth shall not exceed 48", width shall not exceed 48". Enclosure height shall not exceed 100" tall.

B. Transfer switch shall have lugs for at least six parallel sets 3/0 AWG copper cables. All cables for utility, generator, load, and controls, shall be top entry and top exit.

2.05 MANUFACTURER

A. Transfer switch shall be Generac Blue Star series transfer switch with integral controller or approved equal. Transfer switch shall be furnished by the generator supplier and coordinated with the generator.

PART 3 EXECUTION

3.01 GENERAL

A. Installation will be by others. Provide start up services and commissioning. Coordinate startup and interfaces with generator manufacturer.

B. Prior to startup provide setpoint configuration to Engineer for review. Setpoint configuration shall have manufacturer's recommended values for exercising and transfer modes. Make all breaker trip unit settings. Breaker settings will be provided by Engineer.

C. Provide a manufacturer’s representative that shall perform startup services. Startup of transfer switch shall be done at the same time as generator startup. Configure settings according to approved setpoint configuration and provide final setpoint configuration after startup.

D. Provide a 1 hour training session for Owner’s personnel. Training session shall include:

1. Safety
    a. General safety precautions
    b. Equipment safety code
    c. Electric shock and arc flash
2. Overview
3. Components
    a. External components
    b. Controls/Instruments

c. Settings

4. Operating Instructions
    a. Auto/Manual modes
    b. How to change settings
    c. Settings
    d. Description of operation in transition phases
5. Preventative Maintenance
    a. Inspection procedures with equipment in operation.
    b. Potential trouble symptoms
6. Planned Maintenance Requirements
    a. Procedures for testing equipment after maintenance has been performed.
7. Service Events
    a. Alarms/Display Messages
    b. Procedures
    c. Symptom list
8. Troubleshooting
    a. Probable cause and recommendation
9. Demonstration
    a. The instructor will demonstrate the automatic transfer by simulating a power outage. This will allow the engine to start and pick up the emergency load. The demonstration shall be scheduled with the Owner so as to not interrupt processes.

END OF SECTION

No specifications on this page for formatting purposes.

PART 1 - GENERAL

1.01 SCOPE

A. Furnish and install complete grounding systems in accordance with Article 250 of the National Electrical Code as shown on the Drawings and as specified herein.

B. Provide ground mat grounding electrode system as shown on the drawings and as specified herein.

1.02 SUBMITTALS

A. Submit manufacturers' catalog sheets with catalog numbers marked for the items furnished, which shall include:

1. Ground well casings
2. Ground rods
3. Terminal lugs and clamps
4. Exothermal welding materials
5. Ground cable
6. Ground connection hardware

PART 2 - PRODUCTS

2.01 GROUNDING ELECTRODES

A. All ground mat grounding electrodes and grounding electrode conductors shall consist of tin plated stranded copper.

B. All ground rods shall be copper clad steel products, 3/4" diameter x 10 foot long, unless otherwise indicated. Ground rods shall be Blackburn #6258, or equal. Provide heavy duty ground rod clamps, exothermic welds where concealed or below grade. Equal to Blackburn #GG58 where vertical connections are installed and #GUV where U-bolt connectors are installed to serve horizontal connections.

2.02 GROUNDING DEVICES

A. Connectors shall be furnished as specified under Section 26 01 20.

B. Conduit grounding bushings shall be furnished as specified under Section 26 01 10.

C. Equipment grounding conductors shall be furnished as specified under Section 26 01 20.

D. Flush cast metal grounding plates shall consist of bronze body with flat plate on top and bolted clamp connector on bottom. Furnish OZ type "VG", or equal flush connectors. Each such connector shall be furnished with silicon bronze connector bolts for installation of top-mounted grounding connectors.

E. Exothermal welding kits shall be "Cadweld" products as manufactured by Erico. Molds, cartridges, powder, and accessories shall be as recommended by the manufacturer.

2.03 GROUND TEST WELLS

A. Ground test wells shall be furnished each ground rod for the purpose of field testing the ground mat system.

B. Ground test wells shall each consist of ground rod with connector attached to a #4 upcomer from the ground mat and contained within an access well with labeled top.

C. Ground test well enclosures shall be Brooks product #3RT series, or equal. Enclosures shall be 10 1/4" diameter and shall include cast iron cover with integrally cut "GROUND TEST WELL" in top of cover.

PART 3 - EXECUTION

3.01 GROUND MATS AND GROUND WELLS

A. Install ground mat around the perimeter of structures, electrical equipment racks, the generator pad and where indicated on the drawings. Use #4/0 AWG tin-plated copper stranded conductor for the ground mat. Install upcomer with indicated wire sizes of tin plated copper conductors. Exothermally weld all connections.

B. Unless other larger sizes are indicated on the drawings, install #2 upcomers from ground mat to PLC, and other equipment indicated on the drawings. Install "VG" flush floor connector to serve each upcomers and run #2 stingers from top side of each "VG" to ground bus in equipment. Bond VG to rebar in concrete.

C. Install ground rods in test wells where indicated on the drawings.

3.02 GENERATOR

A. Bond generator frame to ground ring shown in plans.

B. Provide ground ring with circumference, and gage wire shown on plans. Provide ground well and ground test well in location and quantity shown on plans.

3.03 WIRING SYSTEMS GROUNDING

A. All equipment enclosures, ATS and generator frames, metallic conduit systems and exposed structural steel systems shall be grounded.

B. Equipment grounding conductors shall be run with all wiring. Sizes of equipment grounding conductors shall be based on Article 250 of the N.E.C. except where larger sizes may be shown. Bond each equipment grounding conductor to the equipment grounds at each end of each run.

Run 4/0 ground full length of tray, bond to each section and every enclosure where conductors originate or terminate. Protect grounded equipment conductor in conduit where it leaves the tray.

C. Liquid tight flexible metal conduit in sizes 1" and larger shall be equipped with external bonding jumpers. Use liquid tight connectors integrally equipped with suitable grounding lugs.

D. Where conduits enter into equipment free of the metal enclosure, install grounding bushing on each conduit and bond bushing lug to equipment ground bus.

E. Where conduits enter equipment enclosures, equip each penetration inside with grounding bushing. Install bonding jumper from each grounding bushing to ground bus.

F. Equipment enclosures that do not come furnished with a ground bus, install ground lug in each enclosure that shall be bonded to the metal cabinet or backpan of the enclosure.

G. Separately derived systems shall be each grounded as shown and shall comply with Article 250 of the NEC except where higher standards are shown.

3.04 TESTING

A. All exothermic weld connections shall successfully resist moderate hammer blows. Any connection which fails such test or if upon inspection, weld indicates a porous or deformed connection, the weld shall be remade.

B. All exothermic welds shall encompass 100 percent of the ends of the materials being welded. Welds which do not meet this requirement shall be remade.

C. Test the ground resistance of the system. All test equipment shall be furnished by Contractor and be approved by Engineer. Test equipment shall be as manufactured by Biddle or approved equal. Dry season resistance of the system shall not exceed five ohms. If such resistance cannot be obtained with the system as shown, provide additional grounding as directed by Engineer.

END OF SECTION

No specifications on this page for formatting purposes.

PART 1 - GENERAL

1.1 DESCRIPTION

A. General:

1. Conduct a Power System Short Circuit Study, Protective Device Coordination Study, and Arc Flash Hazard Analysis for the Electrical Distribution System (EDS) as specified in the CONTRACT DOCUMENTS.
2. The CONTRACTOR shall coordinate with the City's Electrical, Instrumentation and Control Inspection Firm (EI&C Inspector) as outlined in this specification to perform the POWER SYSTEM / ARC FLASH HAZARD ANALYSIS. The EI&C Inspection Firm will perform the POWER SYSTEM / ARC FLASH HAZARD ANALYSIS and shall here in be referred to as ANALYSIS FIRM.
3. The software used to conduct the study and analysis shall be the latest version of SKM Power*Tools, by SKM Systems Analysis, Inc.

1.2 SCOPE

A. CONTRACTOR Scope:

1. The CONTRACTOR shall be responsible for providing the following data to the ANALYSIS FIRM:
   a. Project Schedule.
   b. Electrical Utility contact information.
   c. Division 16000 Engineer approved submittals, including the ENGINEERS review comments.
   d. Additional equipment information as requested by the ANALYSIS FIRM per Section 1.2.A3.
   e. Marked up single line diagram(s) with installed conductor lengths, sizes and count.
   f. Changes in design as a result of RFI's, Addendums, Engineer Clarifications, Sketches or revisions, which may affect the Power System / Arc Flash Analysis.
2. CONTRACTOR shall provide ANALYSIS FIRM a minimum of a 2-week notice of the following construction milestones:
   a. Electrical Equipment Delivery.
   b. Electrical Equipment Energization.
   c. Electrical Equipment Testing.
   d. Substantial Completion.
3. Based upon outcome of analysis additional equipment information may be required by the CONTRACTOR for upstream or downstream equipment in the electrical distribution system.
4. CONTRACTOR shall be responsible for implementation of the protective device settings. Implementation of recommended settings outside of the project scope of

work resulting from system coordination changes is the responsibility of the OWNER.

5. CONTRACTOR shall provide ANALYSIS FIRM with safe access to all equipment on site throughout construction for the purpose of verifying the EDS protective device information.
6. CONTRACTOR shall install labeling as required by specification 16050 section 3.1 for voltage labeling and other labels as required.

B. ANALYSIS FIRM Scope

1. Conduct a Power System/Arc Flash Hazard Analysis for new and modified areas of the EDS as specified in the CONTRACT DOCUMENTS. The analysis shall be performed in accordance with IEEE and shall utilize the ANSI method of short circuit analysis. An SKM model of the EDS shall be developed or modified using ENGINEER'S approved Equipment Submittals, site collected data, and Utility short circuit data. Deliverables shall include a short circuit analysis results, a protective device coordination analysis results, and arc flash / shock hazard analysis results and work tasks required by the CONTRACTOR. The ANALYSIS FIRM shall coordinate new protective devices with existing protective devices in the EDS as required.
2. Where additional electrical equipment is being added or modified and upon request from the ANALYSIS FIRM, the ENGINEER will transmit the existing Arc Flash Documentation to the ANALYSIS FIRM for use in completing the required updates.
3. ANALYSIS FIRM shall acquire the Electrical Utility Company's published available Short Circuit current tables for use in the studies. For larger service sizes greater than 480VAC, the ANALYSIS FIRM is to coordinate with the ENGINEER and Utility Company for calculated available short circuit current.
4. ANALYSIS firm shall verify that protective devices are correct per SKM model and analysis results.
5. ANALYSIS FIRM shall install Arc Flash Hazard Warning labels per this specification.
6. ANALYSIS FIRM shall install the updated laminated Single Line Diagram's, Panel Schedules, and Load Summaries. Updates will be made by the ANALYSIS FIRM based on as-build documentation provided by the CONTRACTOR.
7. ANALYSIS FIRM shall deliver the final SKM Model and all associated data and library files used in the model to the OWNER. The ANALYSIS FIRM shall relinquish all rights of the SKM model and all associated data and library files to the OWNER.

1.3 REFERENCES

A. Reference Standards: Comply with applicable provisions and recommendations of the following, except where otherwise shown or specified.

1. IEEE 141-1993, Recommended Practice for Electric Power Distribution for Industrial Plants (IEEE Red Book).
2. IEEE 242-2001, Recommended Practice for Protection and Coordination of Industrial and Commercial Power Systems (IEEE Buff Book).
3. IEEE 1584-2002, Guide for Performing Arc Flash Hazard Calculations

4. NFPA 70E, Standard for Electrical Safety in the Workplace.
5. IEEE 551, Recommended Practice for Calculating Short-Circuit Currents in Industrial and commercial Power Systems (IEEE Violet Book).
6. NFPA 70, National Electrical Code (NEC).

1.4 SUBMITTALS

A. Preliminary Technical Memorandum:
   1. ANALYSIS FIRM shall provide a preliminary submittal review and a technical memorandum providing comments for equipment submitted on. This will be submitted for approval by the ENGINEER and OWNER. Submittal shall include:
      a. Technical Memorandum
         1) Review for adequate installation based on available fault current.
         2) Recommendations for alternate equipment based on system coordination.
         3) Recommendations for alternate design considerations based on energy levels.
   2. Preliminary Technical Memorandum shall be submitted and reviewed by the ENGINEER to ensure EDS electrical equipment order being released for manufacturing meets the requirements of the project.

B. Final Report:
   1. ANALYSIS FIRM shall submit a final sealed report to the CONTRACTOR upon project substantial completion. Final report shall be in PDF format and include all documents as noted in section 1.4.B.2 below.
   2. ANALYSIS FIRM to provide the following documents in the final report:
      a. Final Report
      b. SKM Single Line Diagrams – Power Study Management Scenario
      c. SKM Time Current Curves
      d. Arc Flash Labels

C. Submittals shall be delivered in pdf format, unless otherwise specified. CONTRACTOR shall provide 4 cd(s) of the final deliverable report to the ENGINEER.

PART 2 - PRODUCTS

2.1 POWER SYSTEM / ARC FLASH ANALYSIS FINAL REPORT

A. Professional Certified Report:
   1. ANALYSIS FIRM shall provide a certified report that shall include but is not limited to:

a. An executive summary.
b. Methods, assumptions, and procedures used in the analysis.
c. Results of short-circuit analysis listing equipment that is applied above its short-circuit current rating, and recommendations if appropriate.
d. Results and recommendations of the protective device coordination and time-current analysis, including time-current curves (TCC's).
e. Documentation of all study input data, including utility available fault currents; cable sizes, types and lengths; motor data; breaker types and settings; fuse sizes and types, etc.
f. Findings and recommendations requiring actions not within the ANALYSIS FIRM scope of work.
g. Electrical Distribution System Overview as illustrated on the CONTRACT DOCUMENTS.
h. Appendices with the SKM documents of the equipment data used in the analysis and the analysis results.

2. Report shall be reviewed and sealed by a Professional Engineer registered in the state of Arizona.

B. SKM Single-Line Diagram(s):

1. SKM Single-Line Diagram(s) legible on 11" x 17" sheet size, landscape view. Include the following information:
   a. Location and function of each protective device in the system, such as relays, direct-acting trips, fuses, etc.
   b. Type designation, current rating, range or adjustment, manufacturer's style or type for all protective devices.
   c. Power, voltage ratings, impedance, primary and secondary connections of all transformers.
   d. Type, manufacturer, and ratio of all current transformers energizing each relay.
   e. Manufacturer's nameplate data of all motors and generators.
   f. Sources of short circuit currents such as utility ties, generators, synchronous motors, and induction motors.
   g. All significant circuit elements such as transformers, cables, breakers, fuses, reactors, etc.
   h. Normal switching conditions where possible.
   i. The final settings of adjustable breakers, relays and direct-acting trips.

C. Short Circuit Study:

1. The short circuit analysis shall be performed to determine the adequacy of circuit breakers, surge arresters, busways, switches, and fuses by tabulating and comparing the short circuit ratings of these devices with the available fault currents. Short circuit momentary duties and interrupting duties shall be calculated on the basis of worst case scenario / maximum available fault current at the switchgear busses and motor control centers.

2. Normal system operating method, alternate operation, and operations which could result in maximum fault conditions shall be thoroughly addressed in the analysis. The analysis shall assume all motors operating at rated voltage. Redundant/standby motors shall be excluded where known system limitations prevent simultaneous operation. Electrical equipment bus impedance shall be assumed zero (SKM default setting).

D. Protective Device Coordination Study:

1. The protective device coordination analysis shall be performed to determine the required settings/sizes of the protective devices to maximize selectivity. The phase over-current and ground-fault protection settings shall be included as well as settings for all other adjustable protective devices, excluding vendor supplied packaged equipment. Areas lacking complete coordination shall be identified and justification provided for allowing condition to remain or the ENGINEER shall provide solution to resolve situation.
2. SKM Time-Current Curve(s) legible on 11" x 17" sheet size, landscape view on 10-cycle, green log-log graph paper. Include the following information for each time-current curve:
   a. Protective device, relay, or fuse showing graphically that the settings provide protection and selectivity within industry standards. Each curve shall be identified, and the tap and time dial settings shall be specified.
   b. Each device shall be positioned to provide maximum selectivity to minimize system disturbances during fault clearing. Where selectivity cannot be achieved, the ENGINEER shall be notified as to the cause.
   c. Points for cable and equipment damage.
   d. Circuit interrupting device operating and interrupting times based on the amperage.
   e. A SKM Single line sketch of bus and breaker arrangement for each time-current curve.
3. Provide breaker setting table with sign off form for CONTRACTOR use during implementation of breaker settings.

E. Arc Flash/Shock Hazard Analysis:

1. The arc flash / shock hazard analysis shall be conducted in accordance with the methods outlined in IEEE Standard 1584 and stated hereinafter. Work shall be in accordance with NFPA 70E which includes the fabrication of labels with the Arc Flash / Shock Hazard analysis results, the calculated Incident Energy (cal/cm^2), Equipment Name, Owner and Owner contact information, and the date the analysis was performed.
2. The analysis shall include the following IEEE 1584 analysis process steps:

a. Collect current and accurate system and installation data.
b. Determine modes of operation.
c. Determine bolted fault current.
d. Determine arc fault current.
e. Determine protective device characteristic and arc fault duration.
f. Document system voltages
g. Select working distances.
h. Calculate Incident Energy (cal/cm^2).
i. Calculate the Arc Flash Boundary.

3. Within the final report, provide a copy of each installed Equipment Specific Arc Flash label on 8½" x 11" sheet size, portrait view in actual size and color as printed and installed on the actual field equipment.

2.2 LABELS

A. Arc Flash Hazard Warning Labels:

1. PPE Category Label:

a. A standard Arc Flash Hazard Warning label (Category Label) shall be installed on all equipment that meets the NFPA 70E Category 1 or 2 parameters, including a maximum of 25 kA available fault current and arc-duration parameters (clearing time). All other components must have an equipment specific label generated from SKM using calculated values as described in 2.2.A.2.

b. Provide a 2" x 4" label format with coloring to match the labels shown on Figure 2.2.B.1 below.



Figure 2.2.B.1

2. Calculated Equipment Specific Labels:
   a. Arc Flash and Shock Hazard Warning labels shall be installed on all equipment with an SKM calculated Incident Energy level.
   b. Label shall have an orange header with the wording, "WARNING, Arc Flash and Shock Hazard," and shall include the following information taken directly from the arc flash hazard analysis:
      1) Equipment designation.
      2) Nominal system voltage.
      3) Protection boundaries:
         a) Arc Flash Boundary.
         b) Limited approach boundary.
         c) Restricted approach boundary.
   c. Calculated available incident energy in cal/cm^2 and the corresponding working distance.
   d. Study Date.
   e. Labels shall be machine printed, with no field-applied markings.
   f. Provide standard 4” x 5” rectangular labels.
   g. Provide a label with coloring and formatted to match Figure 2.2.B.2 below.



Figure 2.2.B.2

3. Label Material:
   a. Label shall be an indoor/outdoor high performance, pressure sensitive safety sign.
   b. Materials shall be UV rated surface printed polyester with polyester over-laminate. Labels shall be abrasion, chemical and heat resistant (-40°C to 110°C), with an average outdoor durability of five to eight years.
   c. Comply with ANSI Z535.4 for safety signs and labels.
   d. Adhesive-attached labeling materials, including label stocks, laminating adhesives, and inks used by label printers, shall comply with UL 969.
   e. Product Manufacture: Provide the following:
      1) Printer and Label Materials
         a) BRADY Powermark Printer, BRADY Label Part# 13651
         b) Or Approved Equal.

PART 3 - EXECUTION

3.1 GENERAL

A. ANALYSIS FIRM shall inspect all installed equipment for conformance with the fully executed POWER SYSTEM / ARC FLASH ANALYSIS. Any deviations found shall immediately be brought to the OWNER and ENGINEERS attention.

3.2 BREAKER SETTINGS

A. The CONTRACTOR shall coordinate with the ENGINEER and ANALYSIS FIRM to implement the breaker settings defined in the approved preliminary report submittal.
   1. The CONTRACTOR shall complete form 16215 – A – Power System / Arc Flash Analysis Sign-off Form for each breaker.

B. The ANALYSIS FIRM shall inspect all breaker settings implemented in the field by the CONTRACTOR. If the recommended breaker setting(s) are adjusted, the ANALYSIS FIRM will update the final report with the actual settings. CONTRACTOR or ENGINEER is to provide written justification for any deviations.

3.3 BREAKER TESTING

A. The CONTRACTOR shall coordinate the final settings of the breakers during the start-up and functional testing of the process systems EDS. If the breaker settings require adjustment, the CONTRACTOR will coordinate with the ENGINEER and ANALYSIS FIRM to update the Power System Arc Flash Analysis Report with the final settings.

3.4 LABELING

A. All Service Entrance Sections (SES), switchboards, switchgear, Motor Control Centers (MCC), transformers, distribution boards, panel boards, disconnects and control panels shall have both an Arc Flash Hazard Warning label and a voltage label as identified in specification section 16050. The ANALYSIS FIRM shall determine the proper Arc Flash Hazard Warning label.
   1. Install all labels level and in an upright position. Do not cut or alter in any way. Install labels in a professional manner. Clean surface as needed to allow for good adhesion.
   2. Labels shall not be installed atop any manufacturer name plate data or equipment tag labels.
   3. Labels shall not be installed atop any existing voltage warning or Arc Flash Hazard Warning labels that may already exist on the equipment. Existing voltage and Arc Flash Hazard Warning labels shall be removed and the surface thoroughly cleaned before application of any new labels.
   4. Where equipment does not have sufficient space for an Arc Flash Label the CONTRACTOR shall furnish a fabricated mounting plate constructed of stainless

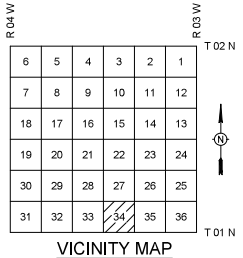
steel sheet metal per direction from the ENGINEER. Mounting plate shall be affixed to the equipment using stainless steel screws. Installation shall maintain the equipment NEMA rating of the equipment. Mounting plate shall not interfere with equipment operation and shall be readily visible.

5. In the case of more than one source of power to a piece of equipment, the highest voltage label shall be applied, and an additional label shall be applied indicating more than one source of power located inside the equipment.
6. For outdoor switchgear, place a single Arc Flash Hazard Warning label on the outside of the access door nearest to the main breaker, and one inside on the respective breaker enclosure. All other Arc Flash Hazard Warning labels shall be placed inside the access doors on the respective breaker enclosure or cover. If there are back access panels to the equipment, the arc flash labels placed at the front of the gear shall be duplicated and placed on the back access panels at the same relative location.
7. For disconnect switches, panel boards, distribution boards, load centers, and control panels, the labels should be applied in plain view on the front cover.

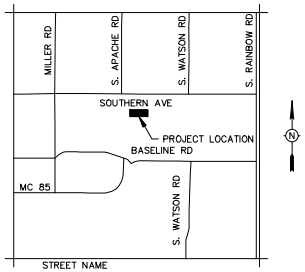
+ + END OF SECTION + +

FUEL YARD
STANDBY GENERATOR
23454 W. HWY MC85
BUCKEYE, ARIZONA 85326

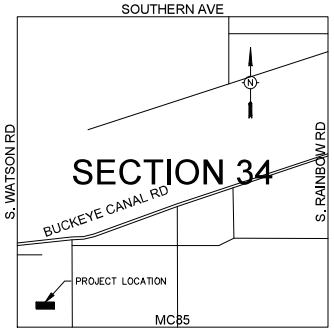
A PORTION OF THE SESW OF SECTION 34, TOWNSHIP T01N, RANGE R03W OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



OVERALL DEVELOPMENT
NOT TO SCALE

FEMA FLOOD ZONE INFORMATION

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEV. (IN AO ZONE, USE DEPTH)
ALL FLOOD ZONES ARE SHOWN IN THIS PLAN SET.					

GENERAL PERMITTING NOTES

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF BUCKEYE DESIGN STANDARDS. IF THERE IS A CONFLICT, THE CITY OF BUCKEYE STANDARDS WILL GOVERN.
2. THE APPROVAL OF THE PLANS IS VALID FOR ONE (1) YEAR FROM THE DATE OF THE CITY ENGINEER'S SIGNATURE. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN ONE (1) YEAR, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
3. A CITY OF BUCKEYE INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF BUCKEYE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY THE CITY 24 HOURS PRIOR TO THE INSPECTION BY CALLING (623) 349-6248.
4. CITY PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. A CITY PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER ALL FEES HAVE BEEN PAID AND THE PERMIT HAS AN APPROVED MARICOPA COUNTY ENVIRONMENTAL SERVICES DUST PERMIT AND AN APPROVED STORM WATER POLLUTION PREVENTION PLAN ATTACHED. THE SWPPP SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. COPIES OF ALL PERMITS AND MOST RECENT APPROVED PLANS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS AND PLANS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL PROPER PERMIT DOCUMENTATION AND/OR PLANS ARE OBTAINED. ALL OF THESE REQUIREMENTS APPLY TO ONSITE GRADING AND IMPROVEMENT PLANS.

SUMMARY OF BUILDING CODES

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL RESIDENTIAL CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE

ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
MICHAEL COLOMBO
7740 N. 16TH STREET
SUITE 300 PHOENIX, AZ 85020
602-944-5500
MICHAEL.COLOMBO@KIMLEY-HORN.COM

SHEET INDEX

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	ELECTRICAL GENERAL NOTES
3	ELECTRICAL SITE PLAN
4	ELECTRICAL ONE LINE DIAGRAM
5	ELECTRICAL DETAILS
6	STRUCTURAL NOTES AND PLAN
7	STRUCTURAL DETAILS

APPROVAL

DISCLAIMER:

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS AND OMISSIONS.

BY: _____
CITY OF BUCKEYE ENGINEER — DATE

BY: _____
FLOOD CONTROL DISTRICT MARICOPA COUNTY — DATE

BY: _____
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION — DATE

BY: _____
MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT — DATE

BY: _____
PRIVATE WATER — DATE

BY: _____
PRIVATE SEWER — DATE

BY: _____
ROOSEVELT IRRIGATION DISTRICT (RID) — DATE

BY: _____
BUCKEYE WATER CONSERVATION & DRAINAGE DISTRICT — DATE

(OTHER SIGNATURE LINES AS REQUIRED)

MANAGING ENGINEERING / SURVEYOR
PROJECT COORDINATOR
DESIGN LAYOUT: EG
DRAFTED: JN
CHECKED: MAC
FIELD SURVEY
DRAWING SCALES

PLAN TYPE: ELECTRICAL PLANS

ENGINEER INFORMATION: Kimley»Horn

PROJECT: FUEL YARD STANDBY GENERATOR

COB PROJECT PLAN STICKER

REVISIONS:
1
2
3

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL

Registered Professional Engineer — CERTIFICATE NO. 30360 — Michael K. Colombo — Date Signed 07/07/20 — ARIZONA, USA

Expires 12/31/21

SUBMITTAL: FINAL

ORIGINAL PLAN DATE: 07/07/2020
LATEST REVISION DATE: 07/07/2020
PROJECT NUMBER: 191342012
SHEET NUMBER: 1 of 7

COB PLAN TRACKING #
COB PERMIT #

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)

CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES

1. CITY OF BUCKEYE BUILDING DEPARTMENT SHALL; HE NOTIFIED 24 HOURS IN ADVANCE OF ANY ON-SITE OR OFF SITE CONSTRUCTION. PHONE 623-349-6248 FOR THE HOTLINE. ALL OTHERS FAX THE INSPECTION REQUEST FORM TO 623-349-6221, OR USE THE WEB BASED PERMIT PORTHOLE ACCESS TO SCHEDULE AN INSPECTION (WWW_BUCKEYEAZ.GOV).
2. ALL WORK AND MATERIALS MUST CONFORM WITH THESE SPECIFICATIONS, THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) AND AS AMENDED BY THE CITY OF BUCKEYE (COB).
3. A PERMIT IS REQUIRED FROM THE COB FOR ALL CONSTRUCTION WITHIN THE RIGHTS-OF-WAY (ROW).
4. THE CONTRACTOR WILL EXPOSE ALL EXISTING UTILITY LINES BEING TIED IN TO VERIFY THEIR LOCATION.
5. THE CONTRACTOR WILL LOCATE, OR HAVE LOCATED, ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINE, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO CALL BLUE STAKE PRIOR TO STARTING ANY CONSTRUCTION. NO WORK SHALL BEGIN UNTIL BLUE STAKE IS COMPLETED. BLUE STAKE TELEPHONE NUMBER 602-263-1 100 OR 1-800-STAKE-IT.
7. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO STARTING ANY WORK OR NEW PHASE OF WORK. THE CONTRACTOR, KEY SUB-CONTRACTORS, COB INSPECTOR AND REPRESENTATIVE OF THE CITY ENGINEER SHALL ATTEND THIS MEETING.
8. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COB AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. DISPOSAL OF EXCESS MATERIAL WITHOUT A PERMIT WITHIN THE COB LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL OR STOCKPILING OF MATERIALS WITHIN A RESIDENTIAL AREA. STOCKPILING OF EXCAVATED MATERIAL SHALL NOT EXCEED A HEIGHT OF 6 FEET ABOVE THE NATURAL GROUND ELEVATION. THE SLOPES ON ALL SIDES OF THE STOCKPILED EXCAVATED MATERIAL SHALL NOT EXCEED A 4: I RATIO OF LENGTH TO HEIGHT.
10. EXCAVATION CONTRACTORS MUST IDENTIFY LOCATION FOR DISPOSING OF EXCESS EXCAVATION MATERIAL ALONG WITH A LETTER FROM THE LAND OWNER, GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ANY CONSTRUCTION.
11. TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF PHOENIX BARRICADING MANUAL, MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION, M.A.G. UNIFORM STANDARD DETAIL 401, AND COB REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND BARRICADE PLAN TO THE COB FOR APPROVAL WHERE THE CONSTRUCTION OF THE NEW IMPROVEMENTS ARE ADJACENT TO OR CONNECTING TO ANY EXISTING ROADWAY OR PEDESTRIAN FACILITIES. THE TRAFFIC CONTROL PLAN AND BARRICADE PLAN SHALL BE APPROVED BEFORE A PERMIT FOR THE WORK WILL BC ISSUED. THE CONTRACTOR SHALL INSTALL APPROVED BARRICADING AND TRAFFIC CONTROL, AS APPROVED BY THE COB, BEFORE WORK CAN TAKE PLACE. ALL OVERNIGHT BARRICADES SHALL BE LIT AND FUNCTIONING.
12. A HAUL PLAN FOR MATERIAL IMPORT OR EXPORT SHALL BE REQUIRED FOR COB REVIEW AND APPROVAL PRIOR TO THE START OF HAULING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC. THIS WORK INCLUDES STREET SWEEPING, POWER BROOM AND WATER AS NEEDED OR DIRECTED BY THE COB.
13. ENVIRONMENTAL REQUIREMENTS
    A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL RELATED TO THE PROJECT CONSTRUCTION AND SHALL TAKE WHATEVER MEANS NECESSARY TO CONTROL ANY ABNORMAL CONDITIONS.
    B. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
    C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC.
    D. TEMPORARY DRAINAGE CONTROL MEASURES MAY BE REQUIRED DURING AND AFTER CONSTRUCTION UNTIL FINAL PROJECT BUILD-OUT IN ACCORDANCE WITH THE APPROVED PLANS AND IN ACCORDANCE WITH ANY ESTABLISHED OR REQUIRED BEST MANAGEMENT PRACTICES (BMP) AS PART OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS.
    E. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL AIR QUALITY PERMITS.
    F. THE CONTRACTOR SHALL SUBMIT TO THE COB A COPY OF THEIR APPROVED COUNTY (AIR QUALITY) DUST CONTROL PLAN, EROSION CONTROL PLAN (SWPPP), AND PERMIT PRIOR TO THE START OF WORK.
14. STREET CUTS: APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. THE PAVEMENT REPLACEMENT SECTION FOR ALL LONGITUDINAL AND TRANSVERSE TRENCHES LOCATED IN AN EXISTING PAVED STREET SHALL BE CONSTRUCTED IN ACCORDANCE M.A.G. UNIFORM STANDARD DETAIL NO. 200 "T"-TOP, BACKFILL, PAVEMENT SURFACE REPLACEMENT, MODIFIED AS FOLLOWS: THE WIDTH OF THE REPLACED PAVEMENT SECTION EXTEND 1 FOOT BEYOND THE TRENCH SIDE EDGE LINE, ON EITHER SIDE OF THE TRENCH. THE DEPTH OF THE PERMANENT SURFACE REPLACEMENT SHALL BE A MINIMUM OF 3 INCHES OR MATCH THE EXISTING THICKNESS OF THE PAVEMENT, WHICHEVER IS GREATER. SAWCUT OR CONSTRUCTION JOINTS SHALL BE ADEQUATELY TACK OILED WITH A MINIMUM OF 95% COVERAGE. ASPHALT MATERIAL SHALL BE A COB APPROVED MIX DESIGN WITH COMPACTED LIFTS NO GREATER THAN 3 INCHES. SLURRY BACKFILLED OR OPEN TRENCHES IN EXISTING ROADWAYS MUST BE PROPERLY STEEL PLATED AND BARRICADED OVER NIGHT. STEEL PLATES TO BE MILLED FLUSH WITH ROADWAY SURFACE PER NOTE 24. "COLD MIX" TEMPORARY ASPHALT PATCHES MUST BE REPLACED AS SOON AS POSSIBLE AND CANNOT REMAIN FOR MORE THAN 5 DAYS TIME OR AS REQUIRED BY THE COB. DURING THE 5 DAY PERIOD THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PATCH TO WITHIN MAG STD SPEC 321.5.3. ASPHALT IN PLACE FOR LESS THAN 5 YEARS SHALL BE MILLED AND OVERLAYED A MINIMUM OF 20 FEET PAST TRENCH WALLS, AND IN THE CASE OF MULTIPLE STREET CUTS, THE CONTINUOUS MILL AND OVERLAY SHALL EXTEND A MINIMUM OF 20-FEET PAST END OF THE FURTHEST TRENCH WALLS.
15. POTHOLING: NO POTHOLING SHALL BE DONE ON ANY STREET NEWER THAN 2 YEARS OLD. ALL POTHOLING IN EXISTING STREETS SHALL BE DONE USING WATER/AIR/VACUUM TYPE METHOD. POTHOLE SIZE SHALL BE LIMITED TO A 12 INCH BY 12 INCH SQUARE HOLE. REMOVAL MATERIAL CANNOT BE USED FOR BACK FILL. THE CONTRACTOR SHALL USE SLURRY PER MAG SEC. 728. PAVEMENT REPLACEMENT SHALL BE BY APPROVED HOT MIX ASPHALT ONLY. A 3 FOOT BY 3 FOOT PAVEMENT SLURRY SEAL SHALL BE APPLIED AFTER THE ASPHALT IS PLACED.
16. AN APPROVED, UP-TO-DATE SET OF PLANS AND A RIGHT-OF-WAY PERMIT SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WHILE WORK IS IN PROGRESS. IF THE PLANS AND PERMITS ARE NOT ON SITE, THE WORK SHALL BE STOPPED UNTIL THE APPROVED PLANS ARE PROVIDED. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT THE COB'S APPROVAL.
17. DAMAGE TO ANY AND ALL ITEMS CAUSED BY CONSTRUCTION OR CONSTRUCTION RELATED WORK SHALL BE REPLACED OR REPAIRED TO THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
18. ALL PARCEL CONSTRUCTION ACCESS LOCATIONS ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE ACCESS ROADS INSIDE AND THROUGHOUT THE PARCEL ALLOWING FOR INSPECTION ACCESSIBILITY. THIS INCLUDES GRADING, GRAVEL FILL AND/OR TRENCH PLATES AS REQUIRED.
19. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COB AND THE COB CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE COB.
20. THE COB SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONNECTION WITH THE WORK. THE COB WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS COMPLYING WITH MAG OR COB REQUIREMENTS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CERTIFIED AS-BUILT RECORD DOCUMENTS TO THE COB FOR REVIEW AND APPROVAL. NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL "AS-BUILT" PLANS CERTIFIED BY THE PROJECT ENGINEER/LAND SURVEYOR HAVE BEEN SUBMITTED AND ACCEPTED BY THE COB. FINAL CONSTRUCTION ACCEPTANCE OR THE RELEASE OF CERTIFICATE OF OCCUPANCIES SHALL NOT BE ISSUED UNTIL ALL AS-BUILT DRAWINGS AND OTHER REQUIRED DOCUMENTS PER THE COB'S FINAL PROJECT SUBMITTAL CHECKLIST, HAVE BEEN REVIEWED AND APPROVED BY THE CITY ENGINEER.
22. ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING THE WATER RESOURCE DEPARTMENT AT (623) 349-6800.
23. THE COB IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR RELOCATION OF UTILITIES.
24. ALL CONTRACTORS SHALL CONTRACT FOR TRASH PICKUP THROUGH A LICENSED CITY OF BUCKEYE SOLID WASTE HAULER (602-237-2078) AND DISPOSED OF AT THE SOUTHWEST REGIONAL LANDFILL IN BUCKEYE.
25. OPEN TRENCHES ACROSS DRIVEWAYS, STREETS AND CROSS-STREETS SHALL BE PLATED FOR OVERNIGHT, WEEKEND OR EXTENDED PERIODS, PER M.A.G. UNIFORM STANDARD DETAIL 211.
26. ALL ABC SHALL BE FROM AN ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) APPROVED SOURCE LIST.
27. LONGITUDINAL TRENCH BACKFILL IN EXISTING ARTERIAL, COLLECTOR, OR LOCAL ROADWAYS OR ADJACENT TO EXISTING ROADWAY (WHEN THE TRENCH EXCAVATION FALLS WITHIN 2 FEET OF EDGE OF PAVEMENT) SHALL REQUIRE 1/2 SACK CLSM PER MAG SPEC 728 FULL DEPTH OR ABC FULL DEPTH AS DIRECTED BY THE COB. ABC BACKFILL COMPACTION SHALL BE BY AN APPROVED MECHANICAL METHOD (NO WATER SETTLING) WITH BACKFILL MATERIAL LIFTS AS FOLLOWS:
    - 12 INCH LIFTS (LOOSE) TO BE USED IN THE TOP 4 FEET OF THE TRENCH
    - 24 INCH LIFTS (LOOSE) TO BE USED FROM 1 FOOT OVER THE PIPE TO 4 FEET FROM THE TOP OF THE TRENCH PER MAG SEC. 601.4.
28. ALL BACKFILL WITHIN OR ADJACENT TO EXISTING ROADWAYS SHALL BE MECHANICALLY COMPACTED.
29. TRANSVERSE TRENCH BACKFILL IN ALL EXISTING ROADWAYS SHALL REQUIRE 100% FULL DEPTH HALF SACK CLSM PER MAG SPEC 728.
30. ALL MATERIAL SUBMITTALS INCORPORATED IN THE PROJECT SHALL BE SUBMITTED AT OR BEFORE THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

ELECTRICAL GENERAL CONSTRUCTION NOTES

1. ALL EQUIPMENT, MATERIALS AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING OR NOTED OTHERWISE ON OTHER SHEETS.
2. PROVIDE ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE WORKING ELECTRICAL SYSTEM.
3. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY AND LOCAL CODES AND ORDINANCES, AS WELL AS ALL CURRENT STANDARDS, CODES AND PRACTICES AS REQUIRED BY NEC, NEMA, ANSI, NFPA, UBC, UL, IEEE, AND UTILITY COMPANY STANDARDS.
4. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER OF ALL SHOP DRAWINGS AND MANUFACTURERS DATA FOR PANEL BOARDS, TRANSFORMERS, WIRING DEVICES, ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL INDICATE THAT THE CONTRACTOR HAS REVIEWED THE INFORMATION THEREIN AND THAT THE PROPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOB SITE. ANY SUBSTITUTIONS SHALL BE OF THE EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
5. ALL WIRE SHALL BE STRANDED COPPER WITH XHHW-2 INSULATION OR APPROVED EQUAL.
6. ALL CONDUIT SHALL BE ROUTED UNDER FOOTINGS WHERE APPLICABLE. REFER TO STRUCTURAL DETAILS FOR MORE INFORMATION.
7. THE USE OF SERIES RATING OF UPSTREAM OR DOWNSTREAM CIRCUIT BREAKERS OR FUSES IS PROHIBITED. ONLY FULLY RATED SYSTEM COMPONENTS WILL BE ACCEPTED.
8. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40. ALL ELBOWS AND EXPOSED RISERS SHALL BE WRAPPED RIGID STEEL CONDUIT.
9. TYPE MC OR TYPE AC CABLE SHALL ONLY BE USED WITH THE SPECIFIC WRITTEN PERMISSION OF THE PROGRAM/PROJECT MANAGER. EMT TYPE CONDUIT WILL NOT BE ALLOWED.
10. ORDER AND/OR RELEASE ORDERED MATERIALS PROMPTLY AFTER SUBMITTAL APPROVAL. NO SUBSTITUTIONS OR ALTERNATE METHODS OF INSTALLATION WILL BE ACCEPTED FOR FAILURE TO ORDER MATERIALS IN A TIMELY FASHION.
11. PULL ROPES: PROVIDE 300 POUND PULL WIRE OR NYLON EQUIVALENT IN ALL INTERIOR EMPTY CONDUIT RUNS. PROVIDE 1/4" DIA NYLON PULL ROPE IN EACH EMPTY EXTERIOR CONDUIT OR DUCT.
12. ALL MULTIPLE POLE CIRCUITS SHALL BE PROVIDED WITH HANDLE TIES AS REQUIRED BY NEC.
13. CONDUIT/ CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT THE TIME OF CONSTRUCTION.
14. PRIOR TO PURCHASE OF ANY PANEL, PROTECTIVE DEVICES, SWITCH, STARTER, CONDUIT, WIRE, ETC., TO FEED ANY PIECE OF EQUIPMENT VERIFY THE VOLTAGE, PHASE, AND LOAD OF THAT ITEM IN THE FIELD AND/OR WITH THE PARTICULAR ENTITY INVOLVED IN THE FURNISHING THE ITEM SUCH THAT THE PROPER SIZE & RATING OF THE MATERIALS ARE PURCHASED. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY. THIS APPLIES TO ALL EQUIPMENT UNDER OTHER SECTIONS & BY THE OWNER.
15. DUE TO THE REQUIREMENTS TO INTERFACE WITH EXISTING FACILITIES AND UTILITIES. IT IS RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING A JOC PROPOSAL.
16. PROVIDE ALL TRENCHING, EXCAVATION, BACK FILLING, SHORING. PUMPING, COMPACTION TEST ETC. THAT ARE REQUIRED FOR THE SCOPE OF ELECTRICAL WORK.
17. VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
18. ALL PANEL BOARDS, SWITCHES, MOTOR STARTERS AND SWITCHBOARD CIRCUIT BREAKERS SHALL HAVE ENGRAVED MICARTA NAMEPLATES.
19. ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ELECTRICAL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
20. PROVIDE ALL PANEL BOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE OWNER FOR APPROVAL PRIOR TO FINALIZATION.

LEGEND

—X—X—	EXISTING FENCE
—OH—	EXISTING OVERHEAD POWER LINE
	EXISTING CONDUIT, ABOVE GRADE
	EXISTING CONDUIT, BELOW GRADE
	PROPOSED RGS CONDUIT, ABOVE GRADE
	PROPOSED PVC SCH 40 CONDUIT, BELOW GRADE
E	PROPOSED ELECTRICAL PULL BOX
C	PROPOSED COMMUNICATIONS PULL BOX
J	PROPOSED JUNCTION BOX
	EXISTING LIGHT POLE
	EXISTING TREE
	BRANCH PANELBOARD/SWITCHBOARD
	DISTRIBUTION PANELBOARD/SWITCHBOARD
	AUTOMATIC TRANSFER SWITCH
GEN	PROPOSED GENERATOR SET ON NEW STRUCTURAL PAD. SEE STRUCTURAL DRAWINGS FOR PAD DETAILS.

ABBREVIATIONS

AFG	ABOVE FINISH GRADE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
EX.	EXISTING
GEC	GROUNDING ELECTRODE CONDUCTOR
GND	GROUND
IBC	INTERNATIONAL BUILDING CODE
IFC	INTERNATIONAL FIRE CODE
IMC	INTERMEDIATE METAL CONDUIT
IPC	INTERNATIONAL PLUMBING CODE
KCMIL	THOUSAND CIRCULAR MIL
MLO	MAIN LUG ONLY
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
PCP	PUMP CONTROL PANEL
RMC	RIGID METAL CONDUIT
RTU	REMOTE TERMINAL UNIT
SCCR	SHORT CIRCUIT CURRENT RATING
TYP.	TYPICAL
MH	MOUNT HEIGHT

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL GENERAL NOTES

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL

DESIGN SEAL
Registered Professional Engineer
CERTIFICATE NO. 30380
Matthew A. Colonna
Date Signed 07/07/20
ARIZONA, USA
Expires 12/31/21

ORIGINAL PLAN DATE 07/07/2020

LATEST REVISION DATE 07/07/2020

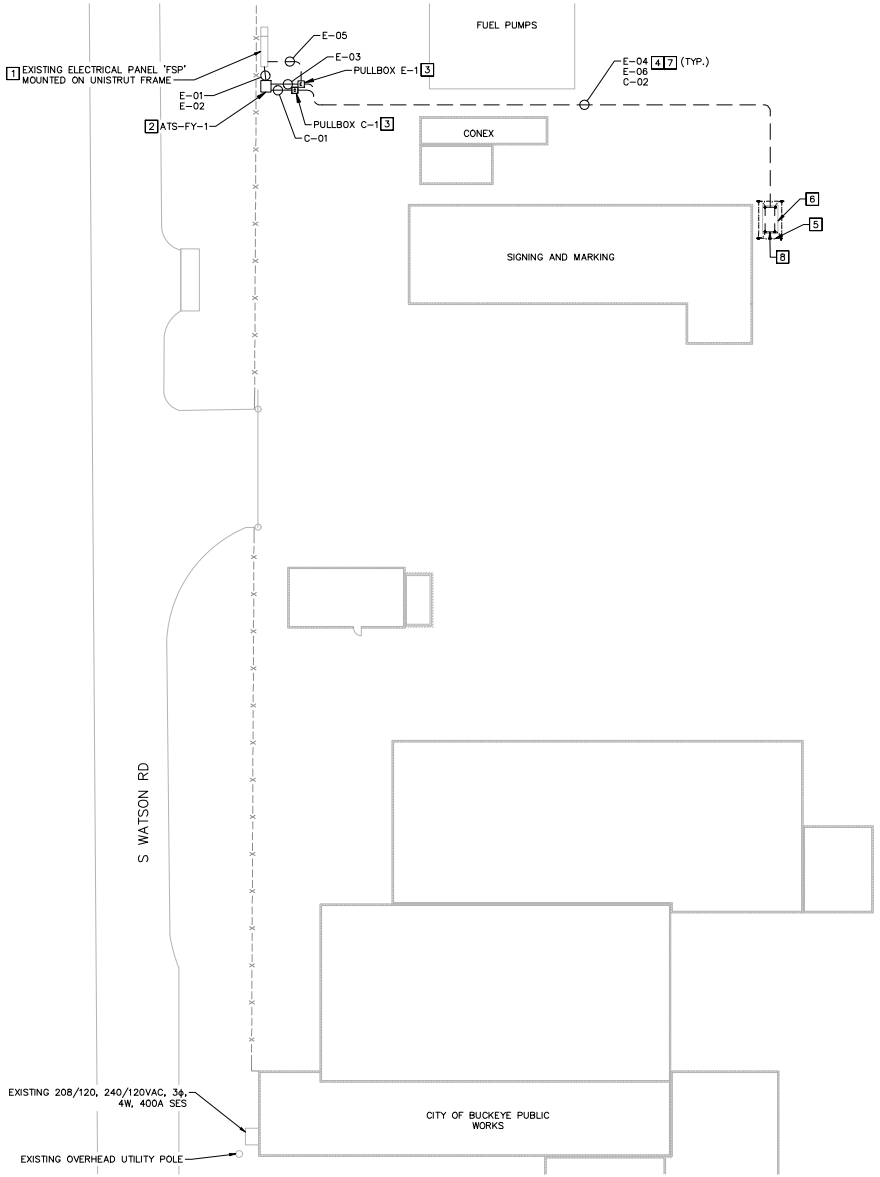
PROJECT NUMBER 191342012

SHEET NUMBER 2 of 7

SUBMITTAL: FINAL

COB PLAN TRACKING #

COB PERMIT #



A
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GENERATOR ELECTRICAL SITE PLAN
CITY FUEL YARD (23454 W HWY MC85)
SCALE:1"=20'

CONSTRUCTION NOTES

1. TERMINATE NEW CONDUIT TO EXISTING PANEL 'FSP'. SPLICE INTO EXISTING FEEDER CONDUCTORS AND EXTEND TO NEW ATS. TERMINATE NEW ATS CONDUCTORS ON EXISTING 100A/2P MAIN BREAKER LUGS.
2. MOUNT ATS ON NEW UNISTRUT H-FRAME RACK.
3. #5 ELECTRICAL PULLBOX DETAIL SHOWN ON SHEET 5.
4. UNDERGROUND TRENCH DETAIL SHOWN ON SHEET 5.
5. PROVIDE GROUND RING FOR GENERATOR. GROUND ROD AND TEST WELL CONNECTION DETAIL SHOWN ON SHEET 5.
6. GENERATOR STRUCTURAL DETAILS SHOWN ON STRUCTURAL PLANS. SEE SHEET 6 AND 7.
7. SEE CONDUIT SCHEDULE ON SHEET 4 FOR CONDUIT AND INTERCONNECTION DETAILS.
8. PROPOSED 24KW/30KVA, 240/120V, 1 PHASE, 3W NEMA 3R DIESEL GENERATOR WITH 132 GALLON BELLY TANK.

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL SITE PLAN

ENGINEER INFORMATION
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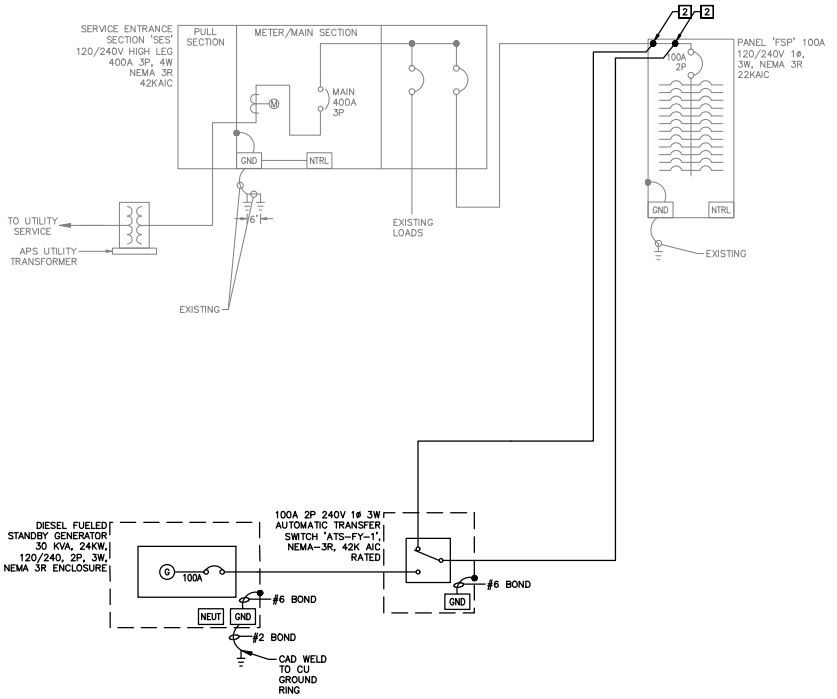
WWW.KIMLEY-HORN.COM

SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL Registered Professional Engineer (Electrical) CERTIFICATE NO. 50368 Michael A. Colombo Date Signed 07/07/20 ARIZONA, U.S.A. Expires 12/31/21
ORIGINAL PLAN DATE 07/07/2020	LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012	SHEET NUMBER 3 of 7

COB PLAN TRACKING #
COB PERMIT #



A — **ONE LINE DIAGRAM - PROPOSED**
SCALE:NOT TO SCALE

PANEL: "FSP"

VOLTAGE: 120/240 — PANEL BUS: 100 AMPS
PHASE, WIRES: 1ø, 3W — MAIN: 100 BREAKER
SCCR (AMPS): EXISTING
SOURCE: UNKNOWN

DESCRIPTION	VA	CB	CKT	A	B	CKT	CB	VA	DESCRIPTION	
EXISTING UNKNOWN LOAD		20/1	1	0.0		2	20/2		EXISTING UNKNOWN LOAD	
EXISTING UNKNOWN LOAD		20/1	3		0.0	4				
EXISTING UNKNOWN LOAD		20/1	5	0.0		6	20/2		EXISTING UNKNOWN LOAD	
LIGHTING PANEL		20/1	7		0.0	8				
EXISTING UNKNOWN LOAD		20/1	9	0.0		10	20/1		GATE MOTOR	
SPACE			11		2.0	12	20/1	240	GENERATOR BLOCK HEATER	1
CONEX SUBPANEL		50/2	13	2.0		14	20/1	240	GENERATOR BATTERY CHARGER	1
			15		0.0	16			SPACE	
			TOTALS	2.0	2.0	AMPS				

LOAD CALCULATIONS:
SUBTOTAL (VA): 480
+25% PER NEC (VA): 120
TOTAL (VA): 600 @ 240V, 1Ø = 2.5 AMPS

C — **PANEL SCHEDULE**
SCALE:NOT TO SCALE

CONSTRUCTION NOTES

1. PROVIDE NEW 20A/1P BREAKER IN EXISTING SPACE IN PANEL 'FSP'. MATCH EXISTING AIC RATING.
2. INSTALL NEW CONDUIT FROM EXISTING PANEL 'FSP' TO NEW ATS. SEE CONDUIT SCHEDULE FOR CONDUIT AND CONDUCTOR SIZE.

GENERATOR LOAD CALCULATION

LOAD DESCRIPTION	AMPS
EXISTING LOADS	
PANEL FSP	80
TOTAL REMOVED LOAD	0
PROPOSED LOADS	
PROPOSED LOAD (GENERATOR ANCILLARY LOADS)	4
TOTAL PROPOSED LOAD	4
FUTURE LOADS	0
TOTAL GEN LOAD (EXISTING-REMOVED+PROPOSED+FUTURE)	84
PERCENT LOADED % (TOTAL LOAD/100A)	84%

*EXISTING SITE DEMAND REFERENCED FROM 'CITY OF BUCKEYE FUEL SYSTEM ELECTRICAL DWGS IFB-2008-002.'

D — **GENERATOR LOAD SUMMARY**
SCALE:NOT TO SCALE

ELECTRICAL UPGRADES CONDUIT AND CABLE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	CONDUIT STATUS	CONDUCTORS/CABLE QTY	CONDUCTORS/CABLE SIZE	FROM	TO	PURPOSE	REMARKS
E-01	2"	NEW	3	#1 AWG	PANEL FSP	ATS-FY-1	POWER	
			1	#8 AWG			GROUND	
E-02	2"	NEW	3	#1 AWG	PANEL FSP	ATS-FY-1	POWER	
			1	#8 AWG			GROUND	
E-03	2"	NEW	3	#1 AWG	ATS-FY-1	PULLBOX E-1	POWER	
			1	#8 AWG			GROUND	
E-04	2"	NEW	3	#1 AWG	PULLBOX E-1	GENERATOR	POWER	GENERATOR ANCILLARY LOADS: PANEL FSP, CKT 12 & 14
			1	#8 AWG			GROUND	
E-05	2"	NEW	4	#8 AWG	PANEL FSP	PULLBOX E-1	POWER	GENERATOR ANCILLARY LOADS: PANEL FSP, CKT 12 & 14
			1	#8 AWG			GROUND	
E-06	2"	NEW	4	#8 AWG	PULLBOX E-1	GENERATOR	POWER	GENERATOR ANCILLARY LOADS: PANEL FSP, CKT 12 & 14
			1	#8 AWG			GROUND	
C-1	1"	NEW	8-PR	#16 AWG	ATS-FY-1	PULLBOX C-1	CONTROLS	GENERATOR CONTROLS
C-2	1"	NEW	8-PR	#16 AWG	PULLBOX C-1	GENERATOR	CONTROLS	GENERATOR CONTROLS

B — **CONDUIT AND CONDUCTOR SCHEDULE**
SCALE:NOT TO SCALE

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	Isc	**% Vdrop
1	Utility Published Data	28369	28,369										28,369	
2	SES	1	28,369	NM	Copper	4	Set of	3/0	400	50	480	3	25,981	0.16%
3	ATS	2	25,981	NM	Copper	2	Set of	2	100	300	480	3	7,810	1.19%

E — **FAULT CURRENT CALCULATION**
SCALE:NOT TO SCALE

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL ONE LINE DIAGRAM

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
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COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Registered Professional Engineer — CERTIFICATE NO. 30360 — Michael K. Colonno — Date Signed 07/07/20 — ARIZONA, USA
Expires 12/31/21

SUBMITTAL: FINAL

ORIGINAL PLAN DATE: 07/07/2020
LATEST REVISION DATE: 07/07/2020
PROJECT NUMBER: 191342012
SHEET NUMBER: 4 of 7
COB PLAN TRACKING #
COB PERMIT #

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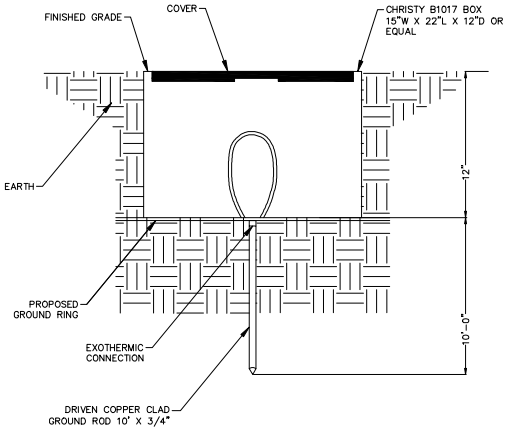
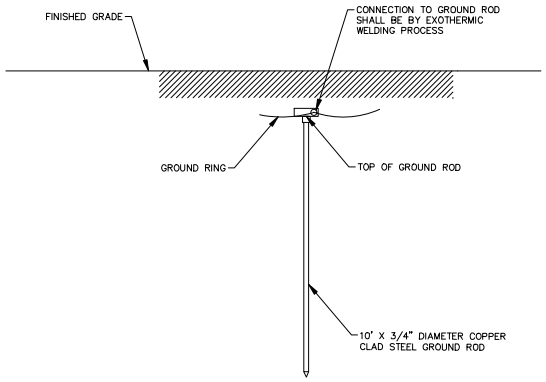
(OUTSIDE MARICOPA COUNTY)



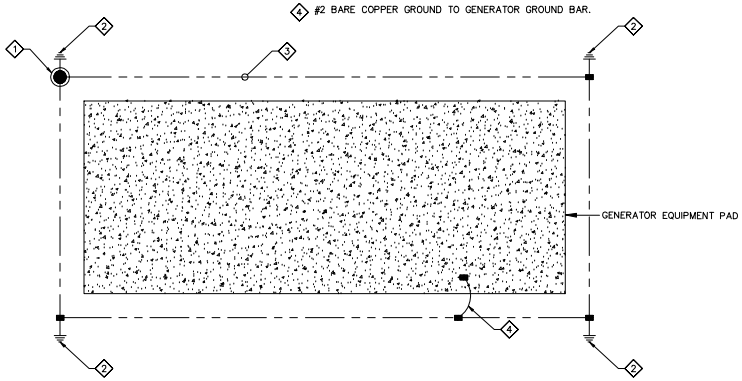
A — GROUNDING TEST WELL DETAIL
SCALE:N.T.S.



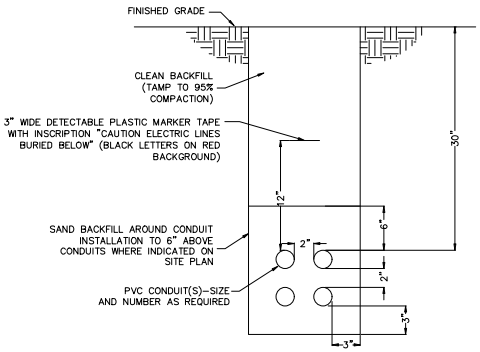
B — GROUND ROD DETAIL
SCALE:N.T.S.

GROUNDING NOTES

1. PROVIDE GROUND TEST POINT PER GROUDING TEST WELL DETAIL.
2. PROVIDE 10' X 3/4" COPPER CLAD GROUND ROD PER GROUND ROD DETAIL .
3. #2 BARE COPPER GROUND GRID BURIED AT 30" BELOW FINISHED GRADE.
4. #2 BARE COPPER GROUND TO GENERATOR GROUND BAR.



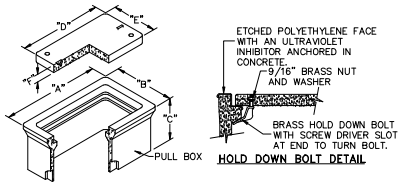
C — GENERATOR GROUNDING PLAN
SCALE:N.T.S.



ALL DIMENSIONS ARE
MINIMUM

NOTE:
1) THIS CONDUIT DUCT BANK DETAIL SHALL BE REFERENCED FOR ALL UNDER GROUND CONDUIT INSTALLATIONS.

D — TYPICAL UNDERGROUND CONDUIT INSTALLATION DETAIL
SCALE:NOT TO SCALE



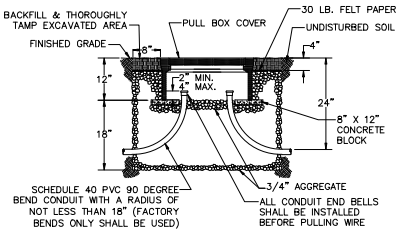
HOLD DOWN BOLT DETAIL



LID 'A' REINFORCED CONCRETE W/HOLD DOWN BOLTS

LID 'A'

DATA TABLE						
PULLBOX TYPE	PULLBOX LENGTH	PULLBOX WIDTH	PULLBOX HEIGHT	LID LENGTH	LID WIDTH	LID HEIGHT
	"A"	"B"	"C"	"D"	"E"	"F"
#3 1/2	19-3/4"	14-1/4"	12"	15-1/4"	10"	1-3/4"
#5	25-1/4"	15-3/4"	12"	20-5/8"	10-1/2"	2"
#7	34-3/4"	21-3/4"	12"	30-1/8"	17-5/8"	2"



GENERAL NOTES:

1. THE PULL BOX SHALL BE MADE OF A HIGH DENSITY REINFORCED CONCRETE MATERIAL WITH END & SIDE KNOCKOUTS, & NONSETTLING SHOULDERS TO MAINTAIN GRADE, MANUFACTURED WITH APPROXIMATE DIMENSIONS AS SHOWN.
2. STEEL REINFORCEMENT SHALL BE AS REGULARLY USED IN STANDARD PRODUCTS OF THE RESPECTIVE MANUFACTURER.
3. COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS: "ELECTRIC" OR "HIGH VOLTAGE", AS REQUIRED.
4. THE PULL BOX SHALL HAVE AN ETCHED POLYETHYLENE FACE WITH AN ULTRAVIOLET INHIBITOR ANCHORED IN CONCRETE.

E — PULL BOX INSTALLATION DETAIL
SCALE:NOT TO SCALE

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL DETAILS

ENGINEER INFORMATION
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07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	6 of 7

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STRUCTURAL GENERAL NOTES

DESIGN SPECIFICATIONS

2018 INTERNATIONAL BUILDING CODE (IBC) WITH THE CITY OF BUCKEYE AMENDMENTS.

DESIGN LOADS

WIND LOADS: (PER ASCE 7-16)
- BASIC WIND SPEED = ULTIMATE DESIGN WIND SPEED . . . . . .101 MPH
- RISK CATEGORY II
- Iw 1.00
- STRUCTURE TYPE . . . . . .SOLID FREE-STANDING WALL
- EXPOSURE . . . . . ."C"

MAIN WIND FORCE RESISTING SYSTEM:
- DESIGN WIND PRESSURE . . . . . .15.72 psf (STRENGTH LEVEL)
- DESIGN WIND PRESSURES FOR COMPONENTS AND CLADDING .28.0 psf
- INTERNAL PRESSURE COEFFICIENT 0.00

EARTHQUAKE DESIGN DATA:
- Ie 1.00
- SITE CLASS . . . . . .D
- S_{S} . . . . . 0.167g S_{1} 0.077g
- S_{DS} . . . . . 0.178g S_{D1} 0.123g
- SEISMIC DESIGN CATEGORY . . . . . .B
- DESIGN BASE SHEAR (Cs"W") 0.051W
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

EARTH LOADS:
- ALLOWABLE BEARING PRESSURE = 1500 PSF
- ACTIVE EARTH PRESSURE = 45 PCF
- AT-REST EARTH PRESSURE = 60 PCF
- PASSIVE EARTH PRESSURE = 100 PCF
- = 0.25 (W/OUT PASSIVE PRESSURE)
- MODULUS OF SUBGRADE REACTION = 100 PCI

FOUNDATIONS

ALL EXCAVATION SHALL BE PROPERLY BACKFILLED. FOOTING BACKFILL WITHIN THE FOOTING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE SPECIAL INSPECTOR. FLOODING WILL NOT BE PERMITTED.

SLAB ON GRADE SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. SLAB ON GRADE PREPARATION SHALL BE PREPARED AS STATED IN THE PROJECT SPECIFICATIONS. FOR SLAB-ON-GRADE, THE UPPER 12 INCHES OF SUBGRADE SOILS AND AGGREGATE SUBBASE SHOULD CONSIST OF IMPORTED LOW VOLUME CHANGE MATERIALS." EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE SPECIAL INSPECTOR PRIOR TO PLACING THE CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR WHEN THE EXCAVATIONS ARE READY FOR INSPECTION. THE SPECIAL INSPECTOR SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE SPECIAL INSPECTOR, FOOTING ELEVATIONS, OR FOOTING DESIGNS WILL BE ALTERED BY CHANGE ORDER.

CONCRETE REINFORCING

SEE MAG STANDARD SPECIFICATIONS SECTION 505 AND 725 CLASS A (TYPE II) CONCRETE.

MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH, f'c = 3000 PSI.
REINFORCING STEEL, ASTM A615 GRADE 60, fy = 60,000 PSI.

JOINT NOTES

CONCRETE:
SLAB ON GRADE MAY BE CONTINUOUS WITH NO JOINT.

DIMENSIONS

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND ELEVATIONS WITH THE CIVIL GRADING DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY PRIOR TO START OF CONSTRUCTION.

GENERAL

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ARIZONA.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PROVIDED PER 2018 INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17.

A. CONCRETE CONSTRUCTION (TABLE 1705.3)
B. SOILS (TABLE 1705.6)

POST-INSTALLED ANCHORS

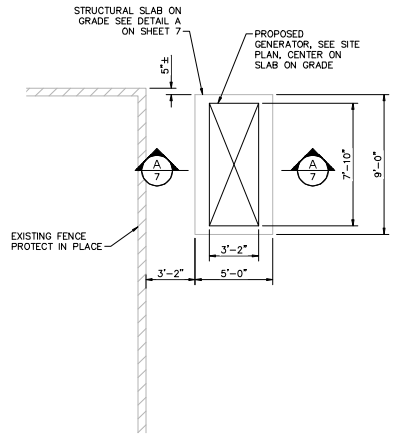
1. UNLESS NOTED OTHERWISE ON PLANS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES, OR APPROVED EQUAL:

	ADHESIVE ANCHOR	MECHANICAL ANCHOR
SOLID CONCRETE	HILTI RE 500 V3 HILTI HY 200 SAFE SET SYSTEM	HILTI KWIK HUS EZ HILTI KWIK BOLT TZ

2. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.
3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
4. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
5. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
6. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AWAY FROM THE LOCATIONS OF THE CONCRETE ANCHORS.

ABBREVIATIONS

ASTM.....AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL
CLR.....CLEARANCE
CONT.....CONTINUOUS
MAX.....MAXIMUM
MIN.....MINIMUM
MPH.....MILES PER HOUR
O.C.....ON CENTER
PCF.....POUNDS PER CUBIC FOOT
PSF.....POUNDS PER SQUARE FOOT
PSI.....POUNDS PER SQUARE INCH
TYP.....TYPICAL
LOL.....LAYOUT LINE
T/F.....TOP OF FOUNDATION
T/W.....TOP OF WALL



PROPOSED GENERATOR LOCATIONS
CITY FUEL YARD (23454 W HWY MC85)
A/– SCALE:1/4"=1'-0"

NORTH

NOTE:

CONTRACTOR SHALL VERIFY LOCATION OF SLAB WITH ENGINEER PRIOR TO CONSTRUCTION. SLAB ON GRADE SHALL BE 3'-2" FROM EXISTING FENCE. NOTIFY ENGINEER OF ANY DISCREPANCIES.

REVISIONS:
1
2
3

PLAN NAME
STRUCTURAL NOTES AND PLAN

ENGINEER INFORMATION
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SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Professional Engineer CERTIFICATE NO. 60164 NATHAN MERRILL Registered Professional Engineer ARIZONA, USA

ORIGINAL PLAN DATE 07/07/2020
LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012
SHEET NUMBER 6 of 7

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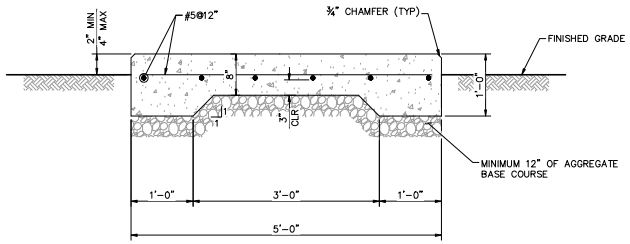
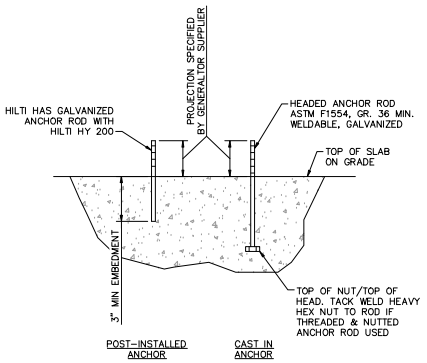


A — **GENERATOR CONCRETE PAD**
SCALE:1"=1'



B — **TYP ANCHOR DETAIL**
SCALE:NOT TO SCALE

NOTES:

1. POST-INSTALLED ADHESIVE ANCHOR RODS ARE ACCEPTABLE IN LIEU OF CAST-IN HEADED ANCHOR RODS AT GENERATOR ANCHOR LOCATIONS.
2. POST-INSTALLED ADHESIVE ANCHOR RODS SHALL STRICTLY FOLLOW MANUFACTURER'S INSTRUCTIONS FOR HOLE SIZE, DRILLING OPERATIONS, PREPARATION, AND MATERIAL HANDLING.
3. SETTING TEMPLATES SHALL BE USED TO SUPPORT ANCHOR RODS DURING CONCRETE PLACEMENT.
4. ANCHOR RODS SHALL BE INSTALLED PLUMB TO FACILITATE THE WASHER AND NUT RESTING FLUSH ON THE BASE PLATE.
5. ALTERNATE POST-INSTALLED ANCHORAGE SYSTEM OF EQUAL PROPERTIES MAY BE USED IN LIEU OF DETAIL SHOWN UPON ENGINEERS APPROVAL.
6. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.

REVISIONS:

1

2

3

PLAN NAME

STRUCTURAL DETAILS

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
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SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL: Professional Engineer (Civil) CERTIFICATE NO. 60164 NATHAN MERRILL Date Signed 07/07/20 ARIZONA, USA
ORIGINAL PLAN DATE 07/07/2020	LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012	SHEET NUMBER 7 of 7

COB PLAN TRACKING #

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CITY FUEL YARD (23454 W HWY MC85)

City of Buckeye Emergency Generator Repair: Buckeye, AZ

STRUCTURAL CALCULATIONS FOR: City Fuel Yard Generator Pad

Prepared By:
Nathan Merrill, PE
Ph: 602-371-4573
Kimley-Horn and Associates, Inc.
7740 N. 16th St
Suite 300
Phoenix AZ, 85020



Date: May 2020

Kimley»Horn

Design References:

1. 2018 International Building Code

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4.3 Generator Specifications.....38

1. DESIGN LOADS

Kimley»Horn

Project: ***Emergency Generator Repair - City Fuel Yard*** *Subject:* ***Generator Pad Load Summary***

Designed by: ***ALF*** *Date:* ***04/29/2020*** *Checked by:* *Date:*

Table of Contents

Defined Units

Assumptions

Assume Generator is supplying power to Risk Category II structures, therefore generator is RC II.

Assume Generator is anchored to concrete pad at the 4 corners of the acoustic generator pad, not acoustic enclosure.

Assume X direction aligns with generator length, and Y direction aligns with generator width.

Acoustic Enclosure dimensions used to calculate wind loads.

Generator Specifications

$L_{gen} := 76in = 6.33\,ft$	Length of generator - 30 kW Diesel Generator Specification - see appendix.
$W_{gen} := 37.4in = 3.12\,ft$	Width of generator - 30 kW Diesel Generator Specification - see appendix.
$H_{gen} := 69.8in = 5.82\,ft$	Height of Generator - 30 kW Diesel Generator Specification - see appendix.
$L_{enc} := 94.8in = 7.9\,ft$	Length of Enclosure - 30 kW Diesel Generator Specification - see appendix..
$W_{enc} := 38in = 3.17\,ft$	Width of Enclosure - 30 kW Diesel Generator Specification - see appendix.
$H_{enc} := 86.1in = 7.17\,ft$	Height of Enclosure - 30 kW Diesel Generator Specification - see appendix.
$n_{anchors} := 4$	Number of Anchors assumed.

Soils Information

Assume conservative values from IBC Section 1610 & 1806

$p_a := 45\,pcf$	Active Soil Pressure
$p_{ar} := 60\,pcf$	At-Rest Soil Pressure
$p_p := 100\,pcf$	Passive Soil Pressure
$w_{soil} := 120\,pcf$	Unit Weight of Soil
$\mu := 0.25$	Soil Sliding Friction Factor

Generator Loading

$q_{wind} := 15.72psf$

Applied Wind pressure. Maximum Tedds Run - see Wind Loading Calculations

$V_{seismic} := 0.2kip$

Seismic Base Shear - see Seismic Loading Calculations. Apply at mid height of equipment to calculate anchor reactions.

$Weight_{gen} := 3.785kip$

30 kW Diesel Generator Specification - see appendix.

$$X_{wind} := \frac{\left(q_{wind} \cdot W_{enc} \cdot H_{enc}\right)}{n_{anchors}} = 0.09 \cdot kip$$

$$Y_{wind} := \frac{\left(q_{wind} \cdot L_{enc} \cdot H_{enc}\right)}{n_{anchors}} = 0.22 \cdot kip$$

$$Z_{wind} := \frac{\left[\frac{\left[\left(q_{wind} \cdot L_{enc} \cdot H_{enc}\right) \cdot \frac{H_{enc}}{2}\right]}{\left(\frac{W_{gen}}{2}\right)}\right]}{\frac{n_{anchors}}{2}} = 1.03 \cdot kip$$

Governing uplift- assumed wind is acting on Length of enclosure. Couple analyzed in Y direction for governing uplift - used for anchor design. Dead Load not added - conservative

$$Z_{seismic} := \frac{\left[\frac{\left[\left(V_{seismic}\right) \cdot \frac{H_{enc}}{2}\right]}{\left(\frac{W_{gen}}{2}\right)}\right]}{\frac{n_{anchors}}{2}} = 0.23 \cdot kip$$

Seismic uplift/compression - couple analyzed in Y direction for governing uplift

By inspection Wind Governs anchor and slab design.

$$Z_{strength} := \left(1.2 \cdot \frac{Weight_{gen}}{n_{anchors}}\right) + Z_{wind} = 2.16 \cdot kip$$

Vertical Shear transferred through anchor. Used for slab design

Bearing Check

Check governs over enercalc design - uses full slab area instead of 1 ft tributary width

$L_{pad} := 9ft$

Length of pad

$W_{pad} := 5ft$

Width of pad

Assumed bearing Capacity

$\sigma_{brg} := 1500psf$

$C_{brg} := \sigma_{brg} \cdot L_{pad} \cdot W_{pad} = 67.5 \cdot kip$

Bearing Capacity

$D_{brg} := Z_{strength} \cdot n_{anchors} = 8.64 \cdot kip$

Bearing Demand

$CH_{brg} := if\left(C_{brg} > D_{brg}, "OK", "NG"\right) = "OK"$

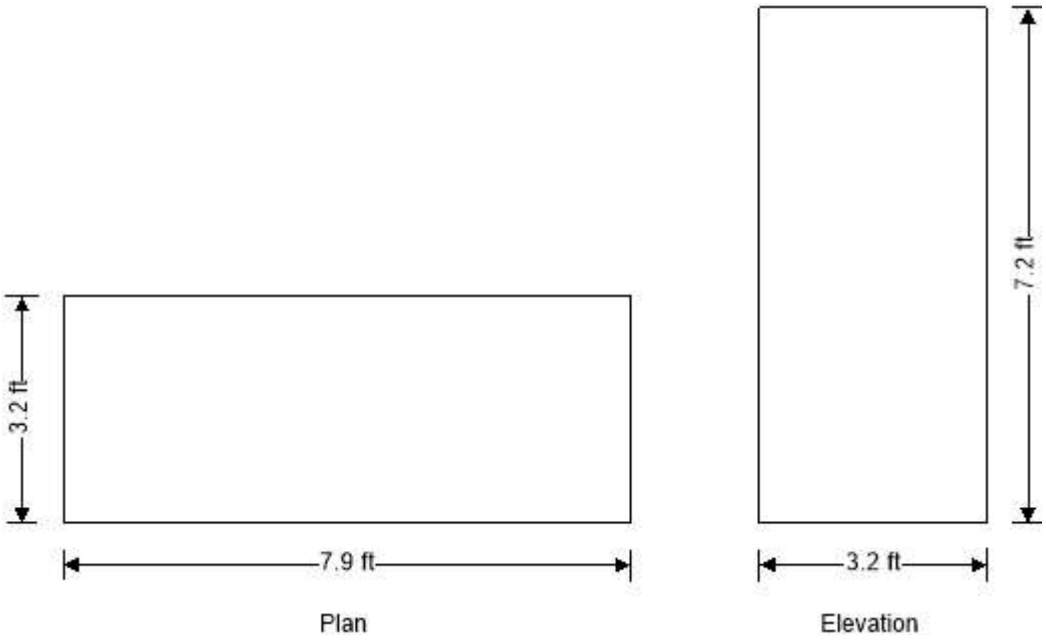
1.1 WIND LOADS

WIND LOADING

In accordance with ASCE7-16

Using the directional design method

Tedds calculation version 2.1.03



Building data

Type of roof	Flat
Length of building	b = **7.90** ft
Width of building	d = **3.17** ft
Height to eaves	H = **7.18** ft
Mean height	h = **7.18** ft

General wind load requirements

Basic wind speed	V = **101.0** mph
Risk category	II
Velocity pressure exponent coef (Table 26.6-1)	K_d = **0.85**
Ground elevation above sea level	z_{gl} = **869** ft
Ground elevation factor	$K_e = \exp(-0.0000362 \times z_{gl}/1ft)$ = **0.97**
Exposure category (cl 26.7.3)	C
Enclosure classification (cl.26.12)	Enclosed buildings
Internal pressure coef +ve (Table 26.13-1)	GC_{pi_p} = **0.18**
Internal pressure coef –ve (Table 26.13-1)	GC_{pi_n} = **-0.18**
Gust effect factor	G_f = **0.85**
Minimum design wind loading (cl.27.4.7)	p_{min_r} = **8** lb/ft^2

Topography

Topography factor not significant	K_{zt} = 1.0
Velocity pressure equation	$q = 0.00256 \times K_z \times K_{zt} \times K_d \times V^2 \times 1psf/mph^2$

Velocity pressures table

z (ft)	K_z (Table 26.10-1)	q_z (psf)
7.18	0.85	18.28

Peak velocity pressure for internal pressure

Peak velocity pressure – internal (as roof press.) q_i = **18.28** psf

Pressures and forces

Net pressure $p = q \times G_f \times C_{pe} - q_i \times GC_{pi}$

Net force $F_w = p \times A_{ref}$

Roof load case 1 - Wind 0, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (-ve)	7.18	-1.30	18.28	-23.49	25.04	-0.59

Total vertical net force $F_{w,v}$ = **-0.59** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 1 - Wind 0, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	7.18	0.80	18.28	9.14	56.72	0.52
B	7.18	-0.50	18.28	-11.06	56.72	-0.63
C	7.18	-0.70	18.28	-14.17	22.76	-0.32
D	7.18	-0.70	18.28	-14.17	22.76	-0.32

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_0} = b \times H$ = **56.72** ft^2

Projected vertical area of roof $A_{vert\_r\_0}$ = **0.00** ft^2

Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_0} + p_{min\_r} \times A_{vert\_r\_0}$ = **0.91** kips

Leeward net force $F_l = F_{w,wB}$ = **-0.6** kips

Windward net force $F_w = F_{w,wA}$ = **0.5** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min})$ = **1.1** kips

Roof load case 2 - Wind 0, GC_{pi} -0.18, $-0c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (+ve)	7.18	-0.18	18.28	0.49	25.04	0.01

Total vertical net force $F_{w,v}$ = **0.01** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 2 - Wind 0, GC_{pi} -0.18, $-0c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	7.18	0.80	18.28	15.72	56.72	0.89
B	7.18	-0.50	18.28	-4.48	56.72	-0.25
C	7.18	-0.70	18.28	-7.59	22.76	-0.17
D	7.18	-0.70	18.28	-7.59	22.76	-0.17

Overall loading

Projected vertical plan area of wall — $A_{vert\_w\_0} = b \times H =$ **56.72** ft^2

Projected vertical area of roof — $A_{vert\_r\_0} =$ **0.00** ft^2

Minimum overall horizontal loading — $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_0} + p_{min\_r} \times A_{vert\_r\_0} =$ **0.91** kips

Leeward net force — $F_l = F_{w,wB} =$ **-0.3** kips

Windward net force — $F_w = F_{w,wA} =$ **0.9** kips

Overall horizontal loading — $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min}) =$ **1.1** kips

Roof load case 3 - Wind 90, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (-ve)	7.18	-1.23	18.28	-22.36	11.38	-0.25
B (-ve)	7.18	-0.74	18.28	-14.74	11.38	-0.17
C (-ve)	7.18	-0.66	18.28	-13.60	2.28	-0.03

Total vertical net force — $F_{w,v} =$ **-0.45** kips

Total horizontal net force — $F_{w,h} =$ **0.00** kips

Walls load case 3 - Wind 90, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	7.18	0.80	18.28	9.14	22.76	0.21
B	7.18	-0.28	18.28	-7.57	22.76	-0.17
C	7.18	-0.70	18.28	-14.17	56.72	-0.80
D	7.18	-0.70	18.28	-14.17	56.72	-0.80

Overall loading

Projected vertical plan area of wall — $A_{vert\_w\_90} = d \times H =$ **22.76** ft^2

Projected vertical area of roof — $A_{vert\_r\_90} =$ **0.00** ft^2

Minimum overall horizontal loading — $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_90} + p_{min\_r} \times A_{vert\_r\_90} =$ **0.36** kips

Leeward net force — $F_l = F_{w,wB} =$ **-0.2** kips

Windward net force — $F_w = F_{w,wA} =$ **0.2** kips

Overall horizontal loading — $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min}) =$ **0.4** kips

Roof load case 4 - Wind 90, GC_{pi} -0.18, $+c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (+ve)	7.18	-0.18	18.28	0.49	11.38	0.01
B (+ve)	7.18	-0.18	18.28	0.49	11.38	0.01
C (+ve)	7.18	-0.18	18.28	0.49	2.28	0.00

Total vertical net force $F_{w,v}$ = **0.01** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 4 - Wind 90, GC_{pi} -0.18, $+c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	7.18	0.80	18.28	15.72	22.76	0.36
B	7.18	-0.28	18.28	-0.99	22.76	-0.02
C	7.18	-0.70	18.28	-7.59	56.72	-0.43
D	7.18	-0.70	18.28	-7.59	56.72	-0.43

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_90} = d \times H$ = **22.76** ft^2

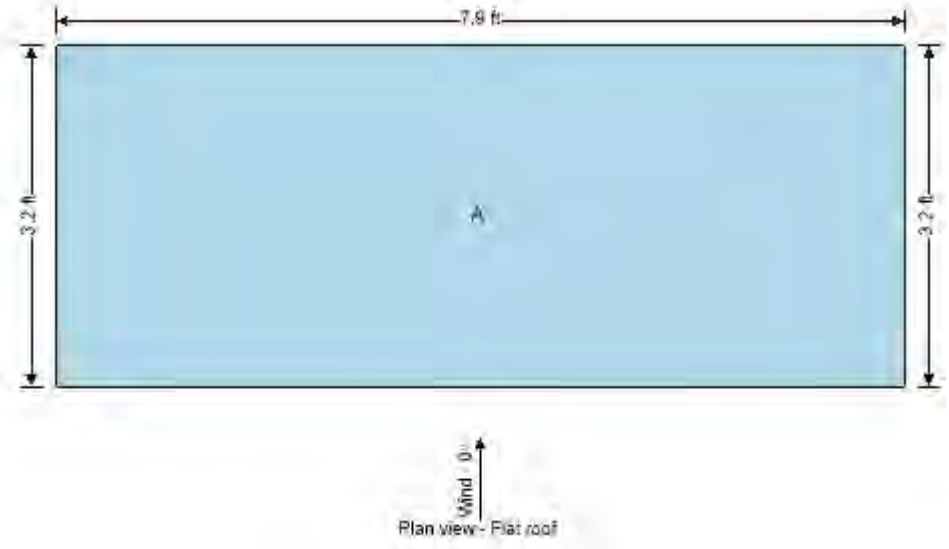
Projected vertical area of roof $A_{vert\_r\_90}$ = **0.00** ft^2

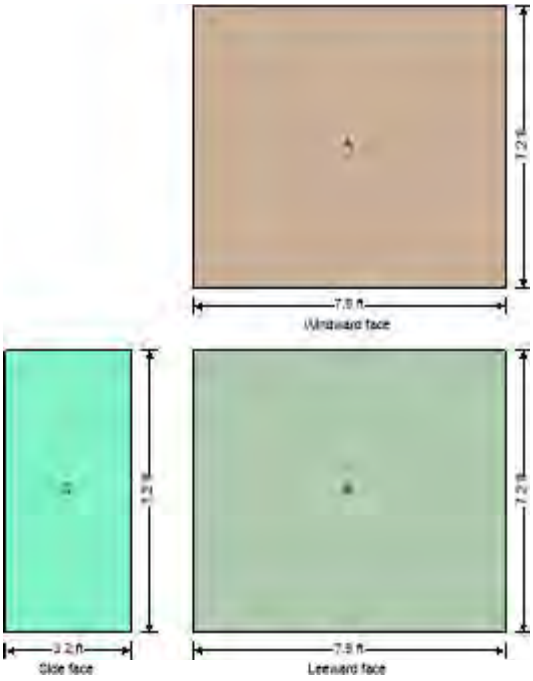
Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_90} + p_{min\_r} \times A_{vert\_r\_90}$ = **0.36** kips

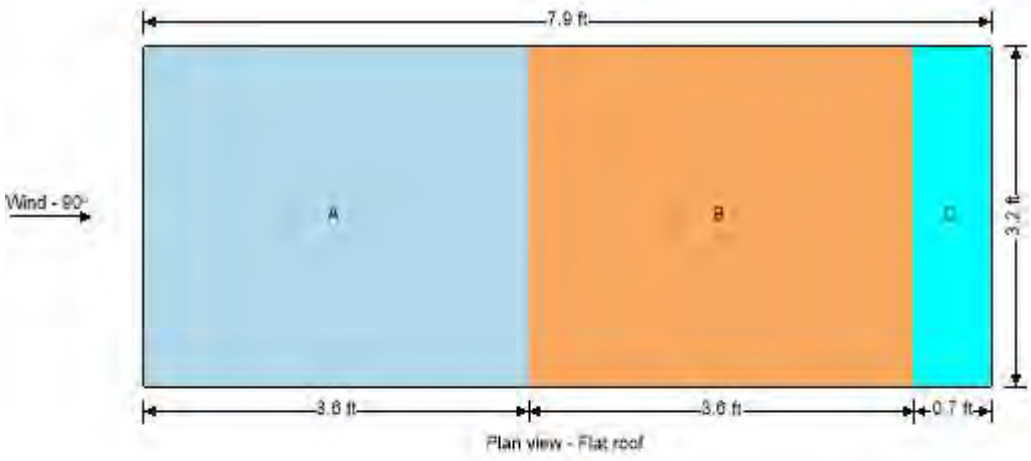
Leeward net force $F_l = F_{w,wB}$ = **0.0** kips

Windward net force $F_w = F_{w,wA}$ = **0.4** kips

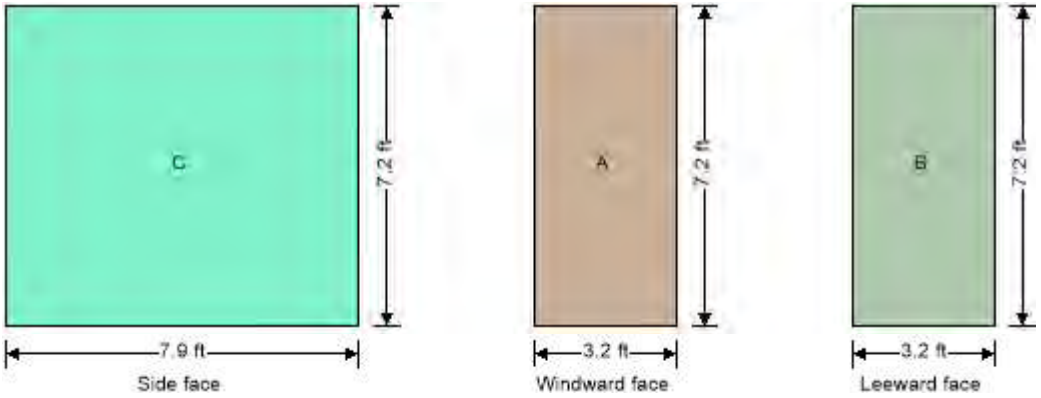
Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min})$ = **0.4** kips







Plan view - Flat roof


C
7.2 ft
7.9 ft
Side face
A
7.2 ft
3.2 ft
Windward face
B
7.2 ft
3.2 ft
Leeward face

1.2 SEISMIC LOADS

SEISMIC FORCES (ASCE 7-16)

Tedds calculation version 3.1.00

Site parameters

Site class	D, Soil properties not known
Mapped acceleration parameters (Section 11.4.2)	
at short period	S_S = **0.167**
at 1 sec period	S_1 = **0.077**
Site coefficientat short period (Table 11.4-1)	F_a = **1.600**
at 1 sec period (Table 11.4-2)	F_v = **2.400**

Spectral response acceleration parameters

at short period (Eq. 11.4-1)	$S_{MS} = F_a \times S_S$ = **0.267**
at 1 sec period (Eq. 11.4-2)	$S_{M1} = F_v \times S_1$ = **0.185**

Design spectral acceleration parameters (Sect 11.4.4)

at short period (Eq. 11.4-3)	$S_{DS} = 2 / 3 \times S_{MS}$ = **0.178**
at 1 sec period (Eq. 11.4-4)	$S_{D1} = 2 / 3 \times S_{M1}$ = **0.123**

Seismic design category

Occupancy category (Table 1-1)	II
Seismic design category based on short period response acceleration (Table 11.6-1)	B
Seismic design category based on 1 sec period response acceleration (Table 11.6-2)	B
Seismic design category	B

Approximate fundamental period

Height above base to highest level of building	h_n = **7.18** ft
From Table 12.8-2:	
Structure type	Steel moment frame
Building period parameter C_t	C_t = **0.028**
Building period parameter x	x = **0.80**
Approximate fundamental period (Eq 12.8-7)	$T_a = C_t \times (h_n)^x \times 1\text{sec} / (1\text{ft})^x$= **0.136** sec
Building fundamental period (Sect 12.8.2)	$T = T_a$ = **0.136** sec
Long-period transition period	T_L = **6** sec

Seismic response coefficient

Seismic force-resisting system (Table 12.2-1)	C_MOMENT_RESISTING_FRAME_SYSTEMS 4. Steel ordinary moment frames
Response modification factor (Table 12.2-1)	R = **3.5**
Seismic importance factor (Table 1.5-2)	I_e = **1.000**
Seismic response coefficient (Sect 12.8.1.1)	
Calculated (Eq 12.8-3)	$C_{s\_calc} = S_{DS} / (R / I_e)$ = **0.0509**
Maximum (Eq 12.8-3)	$C_{s\_max} = S_{D1} / ((T / 1\text{ sec}) \times (R / I_e))$ = **0.2597**
Minimum (Eq 9.5.5.2.1-3)	$C_{s\_min} = \max(0.044 \times S_{DS} \times I_e, 0.01)$ = **0.0100**

Seismic response coefficient	C_s = **0.0509**

Seismic base shear (Sect 12.8.1)

Effective seismic weight of the structure	W = **3.8** kips
Seismic response coefficient	C_s = **0.0509**
Seismic base shear (Eq 12.8-1)	$V = C_s \times W$ = **0.2** kips

2. SLAB ON GRADE DESIGN

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - City Fuel Yard

CODE REFERENCES

Calculations per ACI 318-14, IBC 2015, CBC 2016, ASCE 7-10
Load Combinations Used : IBC 2015

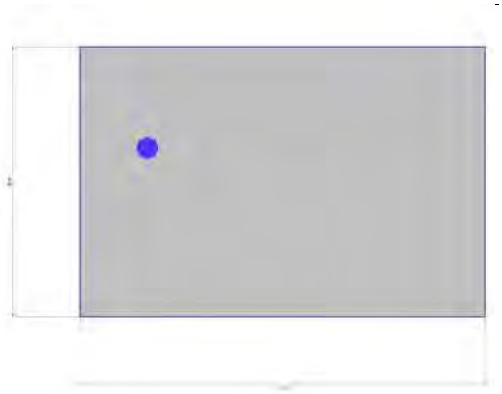
Material Properties

f'c	=	3.0 ksi	ϕ Phi Values	Flexure :	0.90
fr = f'c$^{1/2}$ * 7.50	=	410.792 psi		Shear :	0.750
ψ Density	=	145.0 pcf	β_1	=	0.850
λ Lt Wt Factor	=	1.0			
Elastic Modulus	=	3,122.0 ksi			

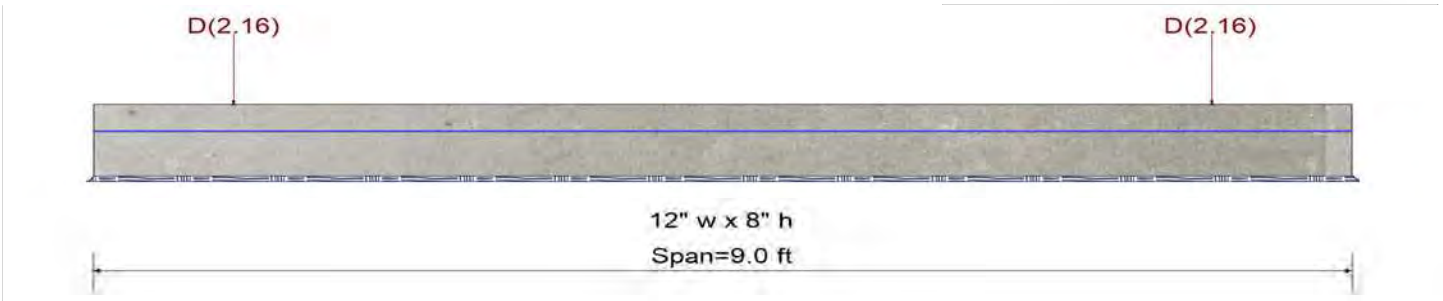
Soil Subgrade Modulus = 100.0 psi / (inch deflection)

Load Combination IBC 2015

fy - Main Rebar	=	60.0 ksi	Fy - Stirrups	=	40.0 ksi
E - Main Rebar	=	29,000.0 ksi	E - Stirrups	=	29,000.0 ksi
			Stirrup Bar Size #	=	# 3
			Number of Resisting Legs Per Stirrup		2



Beam is supported on an elastic foundation,



Cross Section & Reinforcing Details

Rectangular Section, Width = 12.0 in, Height = 8.0 in
Span #1 Reinforcing....
1-#5 at 3.0 in from Top, from 0.0 to 9.0 ft in this span

Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Point Load : D = 2.160 k @ 1.0 ft
Point Load : D = 2.160 k @ 8.0 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.308 : 1	Maximum Deflection	
Section used for this span		Typical Section	Max Downward L+Lr+S Deflection	0.000 in
Mu : Applied		-2.019 k-ft	Max Upward L+Lr+S Deflection	0.000 in
Mn * Phi : Allowable		6.551 k-ft	Max Downward Total Deflection	0.044 in
Load Combination		+0.90D	Max Upward Total Deflection	0.000 in
Location of maximum on span		4.553 ft		
Span # where maximum occurs		Span # 1		
Maximum Soil Pressure	=	0.634 ksf at 0.00 ft LdComb: D Only		
Allowable Soil Pressure	=	1.50 ksf OK		

Bearing pressures checked in Mathcad for full slab area

Shear Stirrup Requirements

Entire Beam Span Length : Vu < PhiVc/2, Req'd Vs = Not Reqd, use stirrups spaced at 0.000 in

Maximum Forces & Stresses for Load Combinations

Load Combination / Segment Length	Span #	Location (ft) in Span	Bending Stress Results (k-ft) Mu : Max	Phi*Mnx	Stress Ratio
MAXimum Bending Envelope					
Span # 1	1	8.047	0.25	3.76	0.07
+0.90D					
Span # 1	1	8.047	0.25	3.76	0.07

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - City Fuel Yard

Overall Maximum Deflections - Unfactored Loads

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
Span 1	1	0.0440	0.000		0.0000	0.000

Detailed Shear Information

Load Combination	Span Number	Distance (ft)	'd' (in)	Vu Actual (k)	Vu Design (k)	Mu (k-ft)	d*Vu/Mu	Phi*Vc (k)	Comment	Phi*Vs (k)	Spacing (in) Req'd	Spacing (in) Suggest
+0.90D	1	0.00	5.00	0.03	0.03	0.00	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	0.11	5.00	0.09	0.09	0.00	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	0.21	5.00	0.15	0.15	0.01	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	0.32	5.00	0.21	0.21	0.03	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	0.42	5.00	0.26	0.26	0.05	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	0.53	5.00	0.32	0.32	0.08	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	0.64	5.00	0.38	0.38	0.11	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	0.74	5.00	0.43	0.43	0.15	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	0.85	5.00	0.49	0.49	0.20	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	0.95	5.00	0.54	0.54	0.25	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	1.06	5.00	-1.35	1.35	0.19	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	1.16	5.00	-1.30	1.30	0.05	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	1.27	5.00	-1.25	1.25	0.09	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	1.38	5.00	-1.20	1.20	0.22	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	1.48	5.00	-1.15	1.15	0.35	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	1.59	5.00	-1.10	1.10	0.47	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	1.69	5.00	-1.05	1.05	0.59	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	1.80	5.00	-1.00	1.00	0.70	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	1.91	5.00	-0.96	0.96	0.80	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	2.01	5.00	-0.91	0.91	0.90	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	2.12	5.00	-0.87	0.87	1.00	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	2.22	5.00	-0.82	0.82	1.09	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	2.33	5.00	-0.78	0.78	1.18	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	2.44	5.00	-0.73	0.73	1.26	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	2.54	5.00	-0.69	0.69	1.34	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	2.65	5.00	-0.65	0.65	1.41	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	2.75	5.00	-0.61	0.61	1.48	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	2.86	5.00	-0.57	0.57	1.55	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	2.96	5.00	-0.53	0.53	1.61	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	3.07	5.00	-0.49	0.49	1.66	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	3.18	5.00	-0.45	0.45	1.71	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	3.28	5.00	-0.41	0.41	1.76	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	3.39	5.00	-0.37	0.37	1.80	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	3.49	5.00	-0.33	0.33	1.84	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	3.60	5.00	-0.30	0.30	1.88	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	3.71	5.00	-0.26	0.26	1.91	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	3.81	5.00	-0.22	0.22	1.94	0.91	5.21	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	3.92	5.00	-0.18	0.18	1.96	0.75	5.12	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	4.02	5.00	-0.15	0.15	1.98	0.59	5.03	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	4.13	5.00	-0.11	0.11	2.00	0.44	4.94	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	4.24	5.00	-0.07	0.07	2.01	0.29	4.85	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	4.34	5.00	-0.04	0.04	2.02	0.14	4.77	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	4.45	5.00	-0.00	0.00	2.02	0.00	4.68	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	4.55	5.00	0.04	0.04	2.02	0.14	4.77	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	4.66	5.00	0.07	0.07	2.02	0.29	4.85	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	4.76	5.00	0.11	0.11	2.01	0.44	4.94	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	4.87	5.00	0.15	0.15	2.00	0.59	5.02	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	4.98	5.00	0.18	0.18	1.98	0.74	5.11	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	5.08	5.00	0.22	0.22	1.96	0.90	5.21	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	5.19	5.00	0.26	0.26	1.94	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00

Detailed Shear Information

Load Combination	Span Number	Distance (ft)	'd' (in)	Vu (k) Actual	Design	Mu (k-ft)	d*Vu/Mu	Phi*Vc (k)	Comment	Phi*Vs (k)	Spacing (in) Req'd	Suggest
+0.90D	1	5.29	5.00	0.30	0.30	1.91	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	5.40	5.00	0.33	0.33	1.88	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	5.51	5.00	0.37	0.37	1.84	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	5.61	5.00	0.41	0.41	1.80	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	5.72	5.00	0.45	0.45	1.76	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	5.82	5.00	0.49	0.49	1.71	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	5.93	5.00	0.53	0.53	1.66	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	6.04	5.00	0.57	0.57	1.61	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	6.14	5.00	0.61	0.61	1.55	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	6.25	5.00	0.65	0.65	1.48	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	6.35	5.00	0.69	0.69	1.41	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	6.46	5.00	0.73	0.73	1.34	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	6.56	5.00	0.78	0.78	1.26	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	6.67	5.00	0.82	0.82	1.18	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	6.78	5.00	0.87	0.87	1.09	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	6.88	5.00	0.91	0.91	1.00	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	6.99	5.00	0.96	0.96	0.90	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	7.09	5.00	1.00	1.00	0.80	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	7.20	5.00	1.05	1.05	0.70	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	7.31	5.00	1.10	1.10	0.59	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	7.41	5.00	1.15	1.15	0.47	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	7.52	5.00	1.20	1.20	0.35	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	7.62	5.00	1.25	1.25	0.22	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	7.73	5.00	1.30	1.30	0.09	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	7.84	5.00	1.35	1.35	0.05	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	7.94	5.00	1.40	1.40	0.19	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	8.05	5.00	-0.49	0.49	0.25	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	8.15	5.00	-0.43	0.43	0.20	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	8.26	5.00	-0.38	0.38	0.15	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	8.36	5.00	-0.32	0.32	0.11	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	8.47	5.00	-0.26	0.26	0.08	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	8.58	5.00	-0.21	0.21	0.05	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	8.68	5.00	-0.15	0.15	0.03	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	8.79	5.00	-0.09	0.09	0.01	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00
+0.90D	1	8.89	5.00	-0.03	0.03	0.00	1.00	5.26	Vu < PhiVc/2	Not Reqd	0.00	0.00

3. ANCHOR DESIGN

Company:	Kimley-Horn and Associates, Inc	Page:	1
Address:	111 East Broadway, 600	Specifier:	J.Goodsell
Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

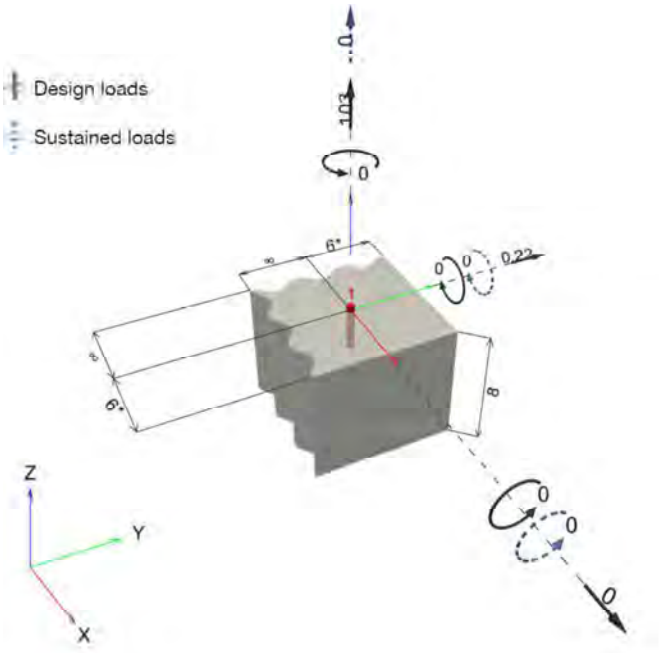
Specifier's comments:

1 Input data



Anchor type and diameter:	**HIT-HY 200 + Rebar A 615 Gr.40 #4**
Item number:	not available (element) / 2022793 HIT-HY 200-R (adhesive)
Effective embedment depth:	$h_{ef,opti}$ = 2.750 in. ($h_{ef,limit}$ = 6.750 in.)
Material:	ASTM A 615 GR.40
Evaluation Service Report:	ESR-3187
Issued I Valid:	4/1/2019 | 3/1/2020
Proof:	Design Method ACI 318-14 / Chem
Stand-off installation:	
Profile:	
Base material:	cracked concrete, 3000, f_c' = 3,000 psi; h = 8.000 in., Temp. short/long: 32/32 °F
Installation:	**hammer drilled hole, Installation condition: Dry**
Reinforcement:	tension: condition B, shear: condition B; no supplemental splitting reinforcement present edge reinforcement: none or < No. 4 bar

Geometry [in.] & Loading [kip, ft.kip]



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Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

1.1 Design results

Case	Description	Forces [kip] / Moments [ft.kip]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = 1.030; V_x = 0.000; V_y = 0.220; M_x = 0.00000; M_y = 0.00000; M_z = 0.00000; N_{sus} = 0.000; $M_{x,sus}$ = 0.00000; $M_{y,sus}$ = 0.00000;	no	38

2 Load case/Resulting anchor forces

Anchor reactions [kip]
Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	1.030	0.220	0.000	0.220

max. concrete compressive strain: - [‰]
max. concrete compressive stress: - [psi]
resulting tension force in (x/y)=(0.000/0.000): 0.000 [kip]
resulting compression force in (x/y)=(0.000/0.000): 0.000 [kip]

3 Tension load

	Load N_{ua} [kip]	Capacity ϕN_n [kip]	Utilization $\beta_N = N_{ua}/\phi N_n$	Status
Steel Strength*	1.030	7.800	14	OK
Bond Strength**	1.030	3.088	34	OK
Sustained Tension Load Bond Strength*	N/A	N/A	N/A	N/A
Concrete Breakout Failure**	1.030	2.760	38	OK

* highest loaded anchor **anchor group (anchors in tension)

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

3.1 Steel Strength

N_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi N_{sa} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,N}$ [in.^{2}]	f_{uta} [psi]
0.20	60,000

Calculations

N_{sa} [kip]
12.000

Results

N_{sa} [kip]	ϕ_{steel}	ϕN_{sa} [kip]	N_{ua} [kip]
12.000	0.650	7.800	1.030

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

3.2 Bond Strength

$N_a = \left(\frac{A_{Na}}{A_{Na0}}\right) \psi_{ed,Na} \psi_{cp,Na} N_{ba}$ — ACI 318-14 Eq. (17.4.5.1a)

$\phi N_a \geq N_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Na} see ACI 318-14, Section 17.4.5.1, Fig. R 17.4.5.1(b)

$A_{Na0} = (2 c_{Na})^2$ — ACI 318-14 Eq. (17.4.5.1c)

$c_{Na} = 10 d_a \sqrt{\frac{\tau_{uncr}}{1100}}$ — ACI 318-14 Eq. (17.4.5.1d)

$\psi_{ed,Na} = 0.7 + 0.3 \left(\frac{c_{a,min}}{c_{Na}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.5.4b)

$\psi_{cp,Na} = MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{c_{Na}}{c_{ac}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.5.5b)

$N_{ba} = \lambda_a \cdot \tau_{k,c} \cdot \pi \cdot d_a \cdot h_{ef}$ — ACI 318-14 Eq. (17.4.5.2)

Variables

$\tau_{k,c,uncr}$ [psi]	d_a [in.]	h_{ef} [in.]	$c_{a,min}$ [in.]	$\alpha_{overhead}$	$\tau_{k,c}$ [psi]
1,589	0.500	2.750	6.000	1.000	1,100

c_{ac} [in.]	λ_a
4.136	1.000

Calculations

c_{Na} [in.]	A_{Na} [in.^{2}]	A_{Na0} [in.^{2}]	$\psi_{ed,Na}$
5.983	143.17	143.17	1.000

$\psi_{cp,Na}$	N_{ba} [kip]
1.000	4.751

Results

N_a [kip]	ϕ_{bond}	ϕN_a [kip]	N_{ua} [kip]
4.751	0.650	3.088	1.030

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

3.3 Concrete Breakout Failure

$N_{cb} = \left(\frac{A_{Nc}}{A_{Nc0}}\right) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b$ ACI 318-14 Eq. (17.4.2.1a)

$\phi N_{cb} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$A_{Nc0} = 9 h_{ef}^2$ ACI 318-14 Eq. (17.4.2.1c)

$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5h_{ef}}\right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.5b)

$\psi_{cp,N} = MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}}\right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.7b)

$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5}$ ACI 318-14 Eq. (17.4.2.2a)

Variables

h_{ef} [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$	c_{ac} [in.]	k_c	λ_a	f'_c [psi]
2.750	6.000	1.000	4.136	17	1.000	3,000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
68.06	68.06	1.000	1.000	4.246

Results

N_{cb} [kip]	$\phi_{concrete}$	ϕN_{cb} [kip]	N_{ua} [kip]
4.246	0.650	2.760	1.030

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

4 Shear load

	Load V_{ua} [kip]	Capacity ϕV_n [kip]	Utilization $\beta_V = V_{ua}/\phi V_n$	Status
Steel Strength*	0.220	4.320	6	OK
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength (Concrete Breakout Strength controls)**	0.220	5.945	4	OK
Concrete edge failure in direction y+**	0.220	2.773	8	OK

* highest loaded anchor **anchor group (relevant anchors)

4.1 Steel Strength

V_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi V_{steel} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,V}$ [in.^{2}]	f_{uta} [psi]
0.20	60,000

Calculations

V_{sa} [kip]
7.200

Results

V_{sa} [kip]	ϕ_{steel}	ϕV_{sa} [kip]	V_{ua} [kip]
7.200	0.600	4.320	0.220

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Fastening point:			

4.2 Pryout Strength (Concrete Breakout Strength controls)

$V_{cp} = k_{cp} \left[\left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b \right]$ ACI 318-14 Eq. (17.5.3.1a)

$\phi V_{cp} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$A_{Nc0} = 9 h_{ef}^2$ ACI 318-14 Eq. (17.4.2.1c)

$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}} \right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.5b)

$\psi_{cp,N} = MAX \left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}} \right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.7b)

$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5}$ ACI 318-14 Eq. (17.4.2.2a)

Variables

k_{cp}	h_{ef} [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$
2	2.750	6.000	1.000

c_{ac} [in.]	k_c	λ_a	f'_c [psi]
4.136	17	1.000	3,000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
68.06	68.06	1.000	1.000	4.246

Results

V_{cp} [kip]	$\phi_{concrete}$	ϕV_{cp} [kip]	V_{ua} [kip]
8.493	0.700	5.945	0.220

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

4.3 Concrete edge failure in direction y+

$V_{cb} = \left(\frac{A_{Vc}}{A_{Vc0}}\right) \psi_{ed,V} \psi_{c,V} \psi_{h,V} \psi_{parallel,V} V_b$ — ACI 318-14 Eq. (17.5.2.1a)

$\phi V_{cb} \geq V_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Vc} see ACI 318-14, Section 17.5.2.1, Fig. R 17.5.2.1(b)

$A_{Vc0} = 4.5 c_{a1}^2$ — ACI 318-14 Eq. (17.5.2.1c)

$\psi_{ed,V} = 0.7 + 0.3\left(\frac{c_{a2}}{1.5c_{a1}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.5.2.6b)

$\psi_{h,V} = \sqrt{\frac{1.5c_{a1}}{h_a}} \geq 1.0$ — ACI 318-14 Eq. (17.5.2.8)

$V_b = \left(7\left(\frac{l_e}{d_a}\right)^{0.2}\sqrt{d_a}\right) \lambda_a \sqrt{f_c'} c_{a1}^{1.5}$ — ACI 318-14 Eq. (17.5.2.2a)

Variables

c_{a1} [in.]	c_{a2} [in.]	$\psi_{c,V}$	h_a [in.]	l_e [in.]
6.000	6.000	1.000	8.000	2.750

λ_a	d_a [in.]	f_c' [psi]	$\psi_{parallel,V}$
1.000	0.500	3,000	1.000

Calculations

A_{Vc} [in.^{2}]	A_{Vc0} [in.^{2}]	$\psi_{ed,V}$	$\psi_{h,V}$	V_b [kip]
120.00	162.00	0.900	1.061	5.603

Results

V_{cb} [kip]	$\phi_{concrete}$	ϕV_{cb} [kip]	V_{ua} [kip]
3.962	0.700	2.773	0.220

5 Combined tension and shear loads

β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status
0.373	0.079	5/3	21	OK

$\beta_{NV} = \beta_N^{\zeta} + \beta_V^{\zeta} <= 1$

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (AS 5216:2018, ETAG 001/Annex C, EOTA TR029 etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered - the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with CBFEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- Design Strengths of adhesive anchor systems are influenced by the cleaning method. Refer to the INSTRUCTIONS FOR USE given in the Evaluation Service Report for cleaning and installation instructions.
- For additional information about ACI 318 strength design provisions, please go to https://submittals.us.hilti.com/PROFISAnchorDesignGuide/
- Installation of Hilti adhesive anchor systems shall be performed by personnel trained to install Hilti adhesive anchors. Reference ACI 318-14, Section 17.8.1.

Fastening meets the design criteria!

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

7 Installation data

Profile: -

Hole diameter in the fixture: -

Plate thickness (input): -

Drilling method: Hammer drilled
Cleaning: Compressed air cleaning of the drilled hole according to instructions for use is required

#4 Rebar with Hilti HIT-HY 200 Safe Set System

Anchor type and diameter: HIT-HY 200 + Rebar A 615 Gr.40 #4
Item number: not available (element) / 2022793 HIT-HY 200-R (adhesive)

Installation torque: -

Hole diameter in the base material: 0.625 in.

Hole depth in the base material: 2.750 in.

Minimum thickness of the base material: 4.000 in.

7.1 Recommended accessories

Drilling	Cleaning	Setting
• Suitable Rotary Hammer • Properly sized drill bit	• Compressed air with required accessories to blow from the bottom of the hole • Proper diameter wire brush	• Dispenser including cassette and mixer • For deep installations, a piston plug is necessary • Torque wrench

Coordinates Anchor in.

Anchor	x	y	c_{-x}	c_{+x}	c_{-y}	c_{+y}
1	0.000	0.000	-	6.000	-	6.000

Input data and results must be checked for conformity with the existing conditions and for plausibility!
PROFIS Engineering (c) 2003-2019 Hilti AG, FL-9494 Schaan Hilti is a registered Trademark of Hilti AG, Schaan

Company:	Kimley-Horn and Associates, Inc	Page:	11
Address:	111 East Broadway, 600	Specifier:	J.Goodsell
Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

8 Remarks; Your Cooperation Duties

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Input data and results must be checked for conformity with the existing conditions and for plausibility!
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4. APPENDIX

4.1 WIND LOADS

Hazards by Location

Search Information

Address: City fuel yard buckeye

Coordinates: 33.3703197, -112.5837766

Elevation: 869 ft

Timestamp: 2020-03-12T15:52:24.575Z

Hazard Type: Wind



ASCE 7-16

MRI 10-Year	70 mph
MRI 25-Year	77 mph
MRI 50-Year	82 mph
MRI 100-Year	87 mph
Risk Category I	95 mph
Risk Category II	101 mph
Risk Category III	108 mph
Risk Category IV	112 mph

ASCE 7-10

MRI 10-Year	76 mph
MRI 25-Year	84 mph
MRI 50-Year	90 mph
MRI 100-Year	96 mph
Risk Category I	105 mph
Risk Category II	115 mph
Risk Category III-IV	120 mph

ASCE 7-05

ASCE 7-05 Wind Speed	90 mph

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area – in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher. NOTE: For queries near wind-borne debris region boundaries, the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne debris region.

Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.

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4.2 SEISMIC LOADS

Hazards by Location

Search Information

Address: City fuel yard buckeye

Coordinates: 33.3703197, -112.5837766

Elevation: 869 ft

Timestamp: 2020-03-12T15:51:28.346Z

Hazard Type: Seismic

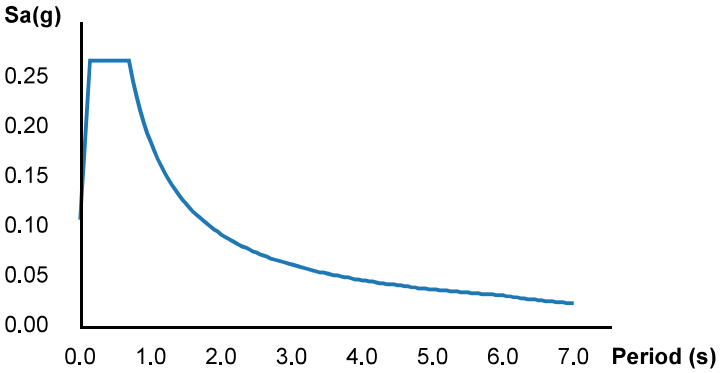
Reference Document: ASCE7-16

Risk Category: II

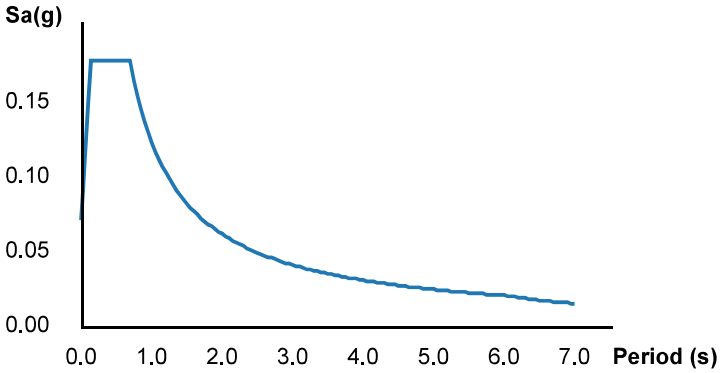
Site Class: D-default



MCER Horizontal Response Spectrum



Design Horizontal Response Spectrum



Basic Parameters

Name	Value	Description
S_S	0.167	MCE_R ground motion (period=0.2s)
S_1	0.077	MCE_R ground motion (period=1.0s)
S_{MS}	0.267	Site-modified spectral acceleration value
S_{M1}	0.185	Site-modified spectral acceleration value
S_{DS}	0.178	Numeric seismic design value at 0.2s SA
S_{D1}	0.123	Numeric seismic design value at 1.0s SA

Additional Information

Name	Value	Description
SDC	B	Seismic design category
F_a	1.6	Site amplification factor at 0.2s
F_v	2.4	Site amplification factor at 1.0s

CR_S	0.937	Coefficient of risk (0.2s)
CR_1	0.944	Coefficient of risk (1.0s)
PGA	0.073	MCE_G peak ground acceleration
F_{PGA}	1.6	Site amplification factor at PGA
PGA_M	0.117	Site modified peak ground acceleration
T_L	6	Long-period transition period (s)
SsRT	0.167	Probabilistic risk-targeted ground motion (0.2s)
SsUH	0.178	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.077	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.082	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGAd	0.5	Factored deterministic acceleration value (PGA)

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are provided by the U.S. Geological Survey Seismic Design Web Services.

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4.3 GENERATOR SPECIFICATIONS

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

Standby Power Rating
30 kW, 38 kVA, 60 Hz

Prime Power Rating*
27 kW, 34 kVA, 60 Hz

ISO 9001:2008

USA ENGINEERED & BUILT* *Assembled in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the US or its Territories

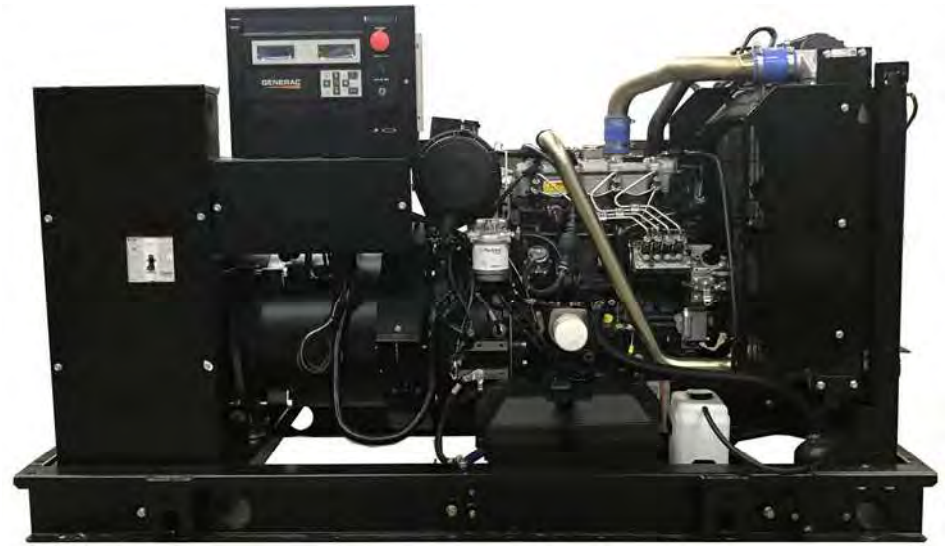


Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL508, UL489, UL142
- CSA C22.2
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SPEC SHEET

1 of 6

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer (Enclosed Unit Only)
- Engine Coolant Heater

Fuel System

- Fuel Lockoff Solenoid
- Primary Fuel Filter

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced
- Amortisseur Winding (3-Phase Only)
- Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Unit Only)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

FUEL TANKS (If Selected)

- UL 142/ULC S601
- Double Wall
- Normal and Emergency Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- RhinoCoat™- Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

CONTROL SYSTEM



Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- ○ Oil Heater
- ○ Critical Silencer (Open Set Only)
- ○ Radiator Stone Guard
- ○ Level 1 Fan and Belt Guards (Open Set Only)

FUEL SYSTEM

- ○ NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- ○ 10A UL Listed Battery Charger
- ○ Battery Warmer

ALTERNATOR SYSTEM

- ○ Alternator Upsizing
- ○ Anti-Condensation Heater
- ○ Tropical Coating
- ○ Permanent Magnet Excitation

GENERATOR SET

- ○ Extended Factory Testing
- ○ 8 Position Load Center
- ○ Pad Vibration Isolation

CIRCUIT BREAKER OPTIONS

- ○ Main Line Circuit Breaker
- ○ 2nd Main Line Circuit Breaker
- ○ Shunt Trip and Auxiliary Contact
- ○ Electronic Trip Breakers

ENCLOSURE

- ○ Weather Protected Enclosure
- ○ Level 1 Sound Attenuation
- ○ Level 2 Sound Attenuation
- ○ Level 2 Sound Attenuation with Motorized Dampers
- ○ Steel Enclosure
- ○ Aluminum Enclosure
- ○ Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- ○ AC/DC Enclosure Lighting Kit
- ○ Door Alarm Switch
- ○ Enclosure Heater
- ○ Damper Alarm Contacts

WARRANTY (Standby Gensets Only)

- ○ 2 Year Extended Limited Warranty
- ○ 5 Year Limited Warranty
- ○ 5 Year Extended Limited Warranty
- ○ 7 Year Extended Limited Warranty
- ○ 10 Year Extended Limited Warranty

CONTROL SYSTEM

- ○ NFPA 110 Compliant 21-Light Remote Annunciator
- ○ Remote Relay Assembly (8 or 16)
- ○ Oil Temperature Indication and Alarm
- ○ Remote E-Stop (Break Glass-Type, Surface Mount)
- ○ Remote E-Stop (Red Mushroom-Type, Surface Mount)
- ○ Remote E-Stop (Red Mushroom-Type, Flush Mount)
- ○ 100 dB Alarm Horn
- ○ Ground Fault Annunciation
- ○ 120V GFCI and 240V Outlets
- ○ Remote Communication - Modem
- ○ 10A Engine Run Relay

FUEL TANKS (Size On Last Page)

- ○ 8 in (203.2 mm) Fill Extension
- ○ 13 in (330.2 mm) Fill Extension
- ○ 19 in (482.6 mm) Fill Extension
- ○ Overfill Protection Valve
- ○ 5 Gallon Spill Box Return Hose
- ○ 5 Gallon Spill Box
- ○ Tank Risers
- ○ Fuel Level Switch and Alarm
- ○ 12' Vent System
- ○ Fire Rated Stainless Steel Fuel Hose

ENGINEERED OPTIONS

ENGINE SYSTEM

- ○ Coolant Heater Isolation Ball Valves
- ○ Fluid Containment Pan

CONTROL SYSTEM

- ○ Spare Inputs (x4) / Outputs (x4)
- ○ Battery Disconnect Switch

ALTERNATOR SYSTEM

- ○ 3rd Breaker System

GENERATOR SET

- ○ Special Testing

FUEL TANKS

- ○ UL2085 Tank
- ○ Stainless Steel Tanks
- ○ Special Fuel Tanks
- ○ Vent Extensions

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Perkins
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	4
Type	In-Line
Displacement - in^3 (L)	135 (2.22)
Bore - in (mm)	3.3 (84)
Stroke - in (mm)	3.9 (100)
Compression Ratio	23.3:1
Intake Air Method	Turbocharged
Cylinder Head	Cast Iron
Piston Type	Aluminum
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.5%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow
Crankcase Capacity - qt (L)	11.2 (10.6)

Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed - RPM	1,980
Fan Diameter - in (mm)	18 (457)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications	ASTM
Fuel Filtering (Microns)	5
Fuel Inject Pump	Distribution Injection Pump
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line - in (mm)	0.31 (7.9) ID
Fuel Return Line - in (mm)	0.2 (4.8) ID

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase)
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Brushless
Bearings	Single Sealed
Coupling	Direct via Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SPEC SHEET

4 of 6

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

OPERATING DATA

POWER RATINGS

		Standby
Single-Phase 120/240 VAC @1.0pf	30 kW	Amps: 125
Three-Phase 120/208 VAC @0.8pf	30 kW	Amps: 104
Three-Phase 120/240 VAC @0.8pf	30 kW	Amps: 90
Three-Phase 277/480 VAC @0.8pf	30 kW	Amps: 45
Three-Phase 346/600 VAC @0.8pf	30 kW	Amps: 36

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip

277/480 VAC	30%	208/240 VAC	30%
K0035124Y21	61	K0035124Y21	46
K0040124Y21	76	K0040124Y21	58
K0050124Y21	98	K0050124Y21	75

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m)
3 (1)

Total Fuel Pump Flow (Combustion + Return) - gph (Lph)
16.6 (63)

Diesel - gph (Lph)

Percent Load	Standby
25%	1.0 (3.7)
50%	1.4 (5.2)
75%	2.0 (7.5)
100%	2.8 (10.5)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Coolant Flow	gpm (Lpm)	14.9 (56.2)
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (kW)	128,638 (136)
Inlet Air	scfm (m^3/hr)	2,800 (4,757)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 0199280SSD	
Maximum Radiator Backpressure	in H_2O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power scfm (m^3/min)	88 (2.5)

ENGINE

		Standby
Rated Engine Speed	RPM	1,800
Horsepower at Rated kW**	hp	49
Piston Speed	ft/min (m/min)	1,181 (360)
BMEP	psi (kPa)	159 (1,096)

EXHAUST

		Standby
Exhaust Flow (Rated Output)	scfm (m^3/min)	296.6 (8.4)
Max. Allowable Backpressure (Post Turbocharger)	inHg (kPa)	1.5 (5.1)
Exhaust Temp (Rated Output)	°F (°C)	892 (478)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.
Standby - See Bulletin 0187500SSB
Prime - See Bulletin 0187510SSB

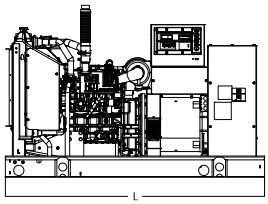
SD030 | 2.2L | 30 kW

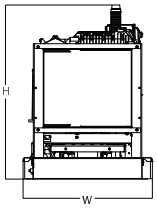
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

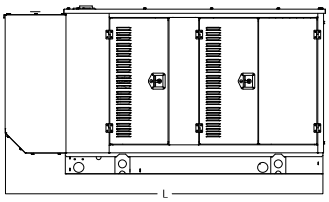
DIMENSIONS AND WEIGHTS*

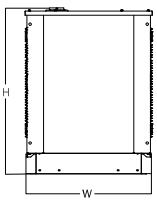




OPEN SET (Includes Exhaust Flex)

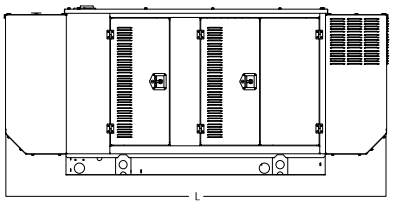
Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,641 (745)
19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	2,121 (963)
47	132 (501)	76.0 (1,930) x 37.4 (950) x 69.8 (1,773)	2,351 (1,067)
75	211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,560 (1,162)
107	300 (1,136)	92.9 (2,360) x 37.4 (950) x 81.8 (2,078)	2,623 (1,190)

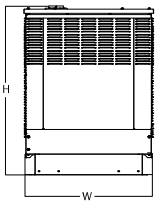




WEATHER PROTECTED ENCLOSURE

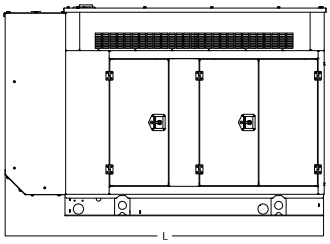
Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)	372 (170)	241 (110)
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)		
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)		
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		

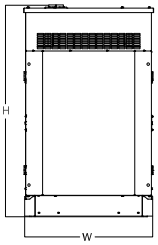




LEVEL 1 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)	505 (230)	338 (154)
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,582)		
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)		
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		





LEVEL 2 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)	510 (232)	341 (155)
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)		
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)		
75	211 (799)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		
107	300 (1,136)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		

(2351 lb set and tank) + (Diesel weight 7 lbs/gallon x 132 gallons) + (510 lbs enclosure weight) = **3785 LBs total**

* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notic installation drawings.

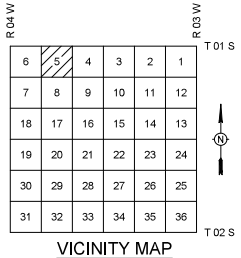
SPEC SHEET

6 of 6

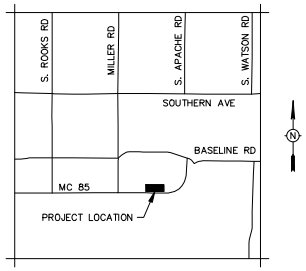
Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

CITY HALL
STANDBY GENERATOR
530 E. MONROE AVE.
BUCKEYE, ARIZONA 85326

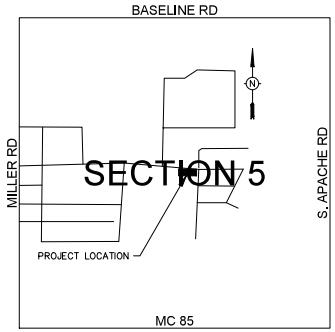
A PORTION OF THE NWSE OF SECTION 5, TOWNSHIP T01S, RANGE R03W OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



OVERALL DEVELOPMENT
NOT TO SCALE

FEMA FLOOD ZONE INFORMATION

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEV. (IN AO ZONE, USE DEPTH)
ALL FLOOD ZONES ARE SHOWN IN THIS PLAN SET.					

GENERAL PERMITTING NOTES

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF BUCKEYE DESIGN STANDARDS. IF THERE IS A CONFLICT, THE CITY OF BUCKEYE STANDARDS WILL GOVERN.
2. THE APPROVAL OF THE PLANS IS VALID FOR ONE (1) YEAR FROM THE DATE OF THE CITY ENGINEER'S SIGNATURE. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN ONE (1) YEAR, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
3. A CITY OF BUCKEYE INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF BUCKEYE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY THE CITY 24 HOURS PRIOR TO THE INSPECTION BY CALLING (623) 349-6248.
4. CITY PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. A CITY PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER ALL FEES HAVE BEEN PAID AND THE PERMIT HAS AN APPROVED MARICOPA COUNTY ENVIRONMENTAL SERVICES DUST PERMIT AND AN APPROVED STORM WATER POLLUTION PREVENTION PLAN ATTACHED. THE SWPPP SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. COPIES OF ALL PERMITS AND MOST RECENT APPROVED PLANS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS AND PLANS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL PROPER PERMIT DOCUMENTATION AND/OR PLANS ARE OBTAINED. ALL OF THESE REQUIREMENTS APPLY TO ONSITE GRADING AND IMPROVEMENT PLANS.

SUMMARY OF BUILDING CODES

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL RESIDENTIAL CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE

ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
MICHAEL COLOMBO
7740 N. 16TH STREET
SUITE 300 PHOENIX, AZ 85020
602-944-5500
MICHAEL.COLOMBO@KIMLEY-HORN.COM

SHEET INDEX

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	ELECTRICAL GENERAL NOTES
3	ELECTRICAL SITE PLAN
4	ELECTRICAL ONE LINE DIAGRAM
5	ELECTRICAL SCHEDULES
6	ELECTRICAL DETAILS
7	STRUCTURAL NOTES AND PLAN
8	STRUCTURAL DETAILS

APPROVAL

DISCLAIMER:

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS AND OMISSIONS.

BY: _____
CITY OF BUCKEYE ENGINEER — DATE

BY: _____
FLOOD CONTROL DISTRICT MARICOPA COUNTY — DATE

BY: _____
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION — DATE

BY: _____
MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT — DATE

BY: _____
PRIVATE WATER — DATE

BY: _____
PRIVATE SEWER — DATE

BY: _____
ROOSEVELT IRRIGATION DISTRICT (RID) — DATE

BY: _____
BUCKEYE WATER CONSERVATION & DRAINAGE DISTRICT — DATE

(OTHER SIGNATURE LINES AS REQUIRED)

MANAGING ENGINEERING / SURVEYOR
PROJECT COORDINATOR
DESIGN LAYOUT: EG | DRAFTED: JN | CHECKED: MAC
FIELD SURVEY | DRAFTED | CHECKED
DRAWING SCALES

PLAN TYPE: ELECTRICAL PLANS

ENGINEER INFORMATION: Kimley»Horn

PROJECT: CITY HALL STANDBY GENERATOR

COB PROJECT PLAN STICKER

REVISIONS:
1
2
3

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

SUBMITTAL: FINAL

AS-BUILT SEAL

DESIGN SEAL

Registered Professional Engineer — CERTIFICATE NO. 30360 — Michael K. Colombo — Date Signed 7/07/20 — ARIZONA, USA

Expires 12/31/21

CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100 1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)

ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	1 of 8

COB PLAN TRACKING #
COB PERMIT #

CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES

1. CITY OF BUCKEYE BUILDING DEPARTMENT SHALL; HE NOTIFIED 24 HOURS IN ADVANCE OF ANY ON-SITE OR OFF SITE CONSTRUCTION. PHONE 623-349-6248 FOR THE HOTLINE. ALL OTHERS FAX THE INSPECTION REQUEST FORM TO 623-349-6221, OR USE THE WEB BASED PERMIT PORTHOLE ACCESS TO SCHEDULE AN INSPECTION (WWW_BUCKEYEAZ.GOV).
2. ALL WORK AND MATERIALS MUST CONFORM WITH THESE SPECIFICATIONS, THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) AND AS AMENDED BY THE CITY OF BUCKEYE (COB).
3. A PERMIT IS REQUIRED FROM THE COB FOR ALL CONSTRUCTION WITHIN THE RIGHTS-OF-WAY (ROW).
4. THE CONTRACTOR WILL EXPOSE ALL EXISTING UTILITY LINES BEING TIED IN TO VERIFY THEIR LOCATION.
5. THE CONTRACTOR WILL LOCATE, OR HAVE LOCATED, ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINE, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO CALL BLUE STAKE PRIOR TO STARTING ANY CONSTRUCTION. NO WORK SHALL BEGIN UNTIL BLUE STAKE IS COMPLETED. BLUE STAKE TELEPHONE NUMBER 602-263-1 100 OR 1-800-STAKE-IT.
7. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO STARTING ANY WORK OR NEW PHASE OF WORK. THE CONTRACTOR, KEY SUB-CONTRACTORS, COB INSPECTOR AND REPRESENTATIVE OF THE CITY ENGINEER SHALL ATTEND THIS MEETING.
8. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COB AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. DISPOSAL OF EXCESS MATERIAL WITHOUT A PERMIT WITHIN THE COB LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL OR STOCKPILING OF MATERIALS WITHIN A RESIDENTIAL AREA. STOCKPILING OF EXCAVATED MATERIAL SHALL NOT EXCEED A HEIGHT OF 6 FEET ABOVE THE NATURAL GROUND ELEVATION. THE SLOPES ON ALL SIDES OF THE STOCKPILED EXCAVATED MATERIAL SHALL NOT EXCEED A 4: 1 RATIO OF LENGTH TO HEIGHT.
10. EXCAVATION CONTRACTORS MUST IDENTIFY LOCATION FOR DISPOSING OF EXCESS EXCAVATION MATERIAL ALONG WITH A LETTER FROM THE LAND OWNER, GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ANY CONSTRUCTION.
11. TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF PHOENIX BARRICADING MANUAL, MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION, M.A.G. UNIFORM STANDARD DETAIL 401, AND COB REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND BARRICADE PLAN TO THE COB FOR APPROVAL WHERE THE CONSTRUCTION OF THE NEW IMPROVEMENTS ARE ADJACENT TO OR CONNECTING TO ANY EXISTING ROADWAY OR PEDESTRIAN FACILITIES. THE TRAFFIC CONTROL PLAN AND BARRICADE PLAN SHALL BE APPROVED BEFORE A PERMIT FOR THE WORK WILL BC ISSUED. THE CONTRACTOR SHALL INSTALL APPROVED BARRICADING AND TRAFFIC CONTROL, AS APPROVED BY THE COB, BEFORE WORK CAN TAKE PLACE. ALL OVERNIGHT BARRICADES SHALL BE LIT AND FUNCTIONING.
12. A HAUL PLAN FOR MATERIAL IMPORT OR EXPORT SHALL BE REQUIRED FOR COB REVIEW AND APPROVAL PRIOR TO THE START OF HAULING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC. THIS WORK INCLUDES STREET SWEEPING, POWER BROOM AND WATER AS NEEDED OR DIRECTED BY THE COB.
13. ENVIRONMENTAL REQUIREMENTS
    A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL RELATED TO THE PROJECT CONSTRUCTION AND SHALL TAKE WHATEVER MEANS NECESSARY TO CONTROL ANY ABNORMAL CONDITIONS.
    B. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
    C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC.
    D. TEMPORARY DRAINAGE CONTROL MEASURES MAY BE REQUIRED DURING AND AFTER CONSTRUCTION UNTIL FINAL PROJECT BUILD-OUT IN ACCORDANCE WITH THE APPROVED PLANS AND IN ACCORDANCE WITH ANY ESTABLISHED OR REQUIRED BEST MANAGEMENT PRACTICES (BMP) AS PART OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS.
    E. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL AIR QUALITY PERMITS.
    F. THE CONTRACTOR SHALL SUBMIT TO THE COB A COPY OF THEIR APPROVED COUNTY (AIR QUALITY) DUST CONTROL PLAN, EROSION CONTROL PLAN (SWPPP), AND PERMIT PRIOR TO THE START OF WORK.
14. STREET CUTS: APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. THE PAVEMENT REPLACEMENT SECTION FOR ALL LONGITUDINAL AND TRANSVERSE TRENCHES LOCATED IN AN EXISTING PAVED STREET SHALL BE CONSTRUCTED IN ACCORDANCE M.A.G. UNIFORM STANDARD DETAIL NO. 200 "T"-TOP, BACKFILL, PAVEMENT SURFACE REPLACEMENT, MODIFIED AS FOLLOWS: THE WIDTH OF THE REPLACED PAVEMENT SECTION EXTEND 1 FOOT BEYOND THE TRENCH SIDE EDGE LINE, ON EITHER SIDE OF THE TRENCH. THE DEPTH OF THE PERMANENT SURFACE REPLACEMENT SHALL BE A MINIMUM OF 3 INCHES OR MATCH THE EXISTING THICKNESS OF THE PAVEMENT, WHICHEVER IS GREATER. SAWCUT OR CONSTRUCTION JOINTS SHALL BE ADEQUATELY TACK OILED WITH A MINIMUM OF 95% COVERAGE. ASPHALT MATERIAL SHALL BE A COB APPROVED MIX DESIGN WITH COMPACTED LIFTS NO GREATER THAN 3 INCHES. SLURRY BACKFILLED OR OPEN TRENCHES IN EXISTING ROADWAYS MUST BE PROPERLY STEEL PLATED AND BARRICADED OVER NIGHT. STEEL PLATES TO BE MILLED FLUSH WITH ROADWAY SURFACE PER NOTE 24. "COLD MIX" TEMPORARY ASPHALT PATCHES MUST BE REPLACED AS SOON AS POSSIBLE AND CANNOT REMAIN FOR MORE THAN 5 DAYS TIME OR AS REQUIRED BY THE COB. DURING THE 5 DAY PERIOD THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PATCH TO WITHIN MAG STD SPEC 321.5.3. ASPHALT IN PLACE FOR LESS THAN 5 YEARS SHALL BE MILLED AND OVERLAYED A MINIMUM OF 20 FEET PAST TRENCH WALLS, AND IN THE CASE OF MULTIPLE STREET CUTS, THE CONTINUOUS MILL AND OVERLAY SHALL EXTEND A MINIMUM OF 20-FEET PAST END OF THE FURTHEST TRENCH WALLS.
15. POTHOLING: NO POTHOLING SHALL BE DONE ON ANY STREET NEWER THAN 2 YEARS OLD. ALL POTHOLING IN EXISTING STREETS SHALL BE DONE USING WATER/AIR/VACUUM TYPE METHOD. POTHOLE SIZE SHALL BE LIMITED TO A 12 INCH BY 12 INCH SQUARE HOLE. REMOVAL MATERIAL CANNOT BE USED FOR BACK FILL. THE CONTRACTOR SHALL USE SLURRY PER MAG SEC. 728. PAVEMENT REPLACEMENT SHALL BE BY APPROVED HOT MIX ASPHALT ONLY. A 3 FOOT BY 3 FOOT PAVEMENT SLURRY SEAL SHALL BE APPLIED AFTER THE ASPHALT IS PLACED.
16. AN APPROVED, UP-TO-DATE SET OF PLANS AND A RIGHT-OF-WAY PERMIT SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WHILE WORK IS IN PROGRESS. IF THE PLANS AND PERMITS ARE NOT ON SITE, THE WORK SHALL BE STOPPED UNTIL THE APPROVED PLANS ARE PROVIDED. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT THE COB'S APPROVAL.
17. DAMAGE TO ANY AND ALL ITEMS CAUSED BY CONSTRUCTION OR CONSTRUCTION RELATED WORK SHALL BE REPLACED OR REPAIRED TO THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
18. ALL PARCEL CONSTRUCTION ACCESS LOCATIONS ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE ACCESS ROADS INSIDE AND THROUGHOUT THE PARCEL ALLOWING FOR INSPECTION ACCESSIBILITY. THIS INCLUDES GRADING, GRAVEL FILL AND/OR TRENCH PLATES AS REQUIRED.
19. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COB AND THE COB CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE COB.
20. THE COB SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONNECTION WITH THE WORK. THE COB WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS COMPLYING WITH MAG OR COB REQUIREMENTS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CERTIFIED AS-BUILT RECORD DOCUMENTS TO THE COB FOR REVIEW AND APPROVAL. NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL "AS-BUILT" PLANS CERTIFIED BY THE PROJECT ENGINEER/LAND SURVEYOR HAVE BEEN SUBMITTED AND ACCEPTED BY THE COB. FINAL CONSTRUCTION ACCEPTANCE OR THE RELEASE OF CERTIFICATE OF OCCUPANCIES SHALL NOT BE ISSUED UNTIL ALL AS-BUILT DRAWINGS AND OTHER REQUIRED DOCUMENTS PER THE COB'S FINAL PROJECT SUBMITTAL CHECKLIST, HAVE BEEN REVIEWED AND APPROVED BY THE CITY ENGINEER.
22. ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING THE WATER RESOURCE DEPARTMENT AT (623) 349-6800.
23. THE COB IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR RELOCATION OF UTILITIES.
24. ALL CONTRACTORS SHALL CONTRACT FOR TRASH PICKUP THROUGH A LICENSED CITY OF BUCKEYE SOLID WASTE HAULER (602-237-2078) AND DISPOSED OF AT THE SOUTHWEST REGIONAL LANDFILL IN BUCKEYE.
25. OPEN TRENCHES ACROSS DRIVEWAYS, STREETS AND CROSS-STREETS SHALL BE PLATED FOR OVERNIGHT, WEEKEND OR EXTENDED PERIODS, PER M.A.G. UNIFORM STANDARD DETAIL 211.
26. ALL ABC SHALL BE FROM AN ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) APPROVED SOURCE LIST.
27. LONGITUDINAL TRENCH BACKFILL IN EXISTING ARTERIAL, COLLECTOR, OR LOCAL ROADWAYS OR ADJACENT TO EXISTING ROADWAY (WHEN THE TRENCH EXCAVATION FALLS WITHIN 2 FEET OF EDGE OF PAVEMENT) SHALL REQUIRE 1/2 SACK CLSM PER MAG SPEC 728 FULL DEPTH OR ABC FULL DEPTH AS DIRECTED BY THE COB. ABC BACKFILL COMPACTION SHALL BE BY AN APPROVED MECHANICAL METHOD (NO WATER SETTLING) WITH BACKFILL MATERIAL LIFTS AS FOLLOWS:
    - 12 INCH LIFTS (LOOSE) TO BE USED IN THE TOP 4 FEET OF THE TRENCH
    - 24 INCH LIFTS (LOOSE) TO BE USED FROM 1 FOOT OVER THE PIPE TO 4 FEET FROM THE TOP OF THE TRENCH PER MAG SEC. 601.4.
28. ALL BACKFILL WITHIN OR ADJACENT TO EXISTING ROADWAYS SHALL BE MECHANICALLY COMPACTED.
29. TRANSVERSE TRENCH BACKFILL IN ALL EXISTING ROADWAYS SHALL REQUIRE 100% FULL DEPTH HALF SACK CLSM PER MAG SPEC 728.
30. ALL MATERIAL SUBMITTALS INCORPORATED IN THE PROJECT SHALL BE SUBMITTED AT OR BEFORE THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

ELECTRICAL GENERAL CONSTRUCTION NOTES

1. ALL EQUIPMENT, MATERIALS AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING OR NOTED OTHERWISE ON OTHER SHEETS.
2. PROVIDE ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE WORKING ELECTRICAL SYSTEM.
3. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY AND LOCAL CODES AND ORDINANCES, AS WELL AS ALL CURRENT STANDARDS, CODES AND PRACTICES AS REQUIRED BY NEC, NEMA, ANSI, NFPA, UBC, UL, IEEE, AND UTILITY COMPANY STANDARDS.
4. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER OF ALL SHOP DRAWINGS AND MANUFACTURERS DATA FOR PANEL BOARDS, TRANSFORMERS, WIRING DEVICES, ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL INDICATE THAT THE CONTRACTOR HAS REVIEWED THE INFORMATION THEREIN AND THAT THE PROPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOB SITE. ANY SUBSTITUTIONS SHALL BE OF THE EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
5. ALL WIRE SHALL BE STRANDED COPPER WITH XHHW-2 INSULATION OR APPROVED EQUAL.
6. ALL CONDUIT SHALL BE ROUTED UNDER FOOTINGS WHERE APPLICABLE. REFER TO STRUCTURAL DETAILS FOR MORE INFORMATION.
7. THE USE OF SERIES RATING OF UPSTREAM OR DOWNSTREAM CIRCUIT BREAKERS OR FUSES IS PROHIBITED. ONLY FULLY RATED SYSTEM COMPONENTS WILL BE ACCEPTED.
8. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40. ALL ELBOWS AND EXPOSED RISERS SHALL BE WRAPPED RIGID STEEL CONDUIT.
9. TYPE MC OR TYPE AC CABLE SHALL ONLY BE USED WITH THE SPECIFIC WRITTEN PERMISSION OF THE PROGRAM/PROJECT MANAGER. EMT TYPE CONDUIT WILL NOT BE ALLOWED.
10. ORDER AND/OR RELEASE ORDERED MATERIALS PROMPTLY AFTER SUBMITTAL APPROVAL. NO SUBSTITUTIONS OR ALTERNATE METHODS OF INSTALLATION WILL BE ACCEPTED FOR FAILURE TO ORDER MATERIALS IN A TIMELY FASHION.
11. PULL ROPES: PROVIDE 300 POUND PULL WIRE OR NYLON EQUIVALENT IN ALL INTERIOR EMPTY CONDUIT RUNS. PROVIDE 1/4" DIA NYLON PULL ROPE IN EACH EMPTY EXTERIOR CONDUIT OR DUCT.
12. ALL MULTIPLE POLE CIRCUITS SHALL BE PROVIDED WITH HANDLE TIES AS REQUIRED BY NEC.
13. CONDUIT/ CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT THE TIME OF CONSTRUCTION.
14. PRIOR TO PURCHASE OF ANY PANEL, PROTECTIVE DEVICES, SWITCH, STARTER, CONDUIT, WIRE, ETC., TO FEED ANY PIECE OF EQUIPMENT VERIFY THE VOLTAGE, PHASE, AND LOAD OF THAT ITEM IN THE FIELD AND/OR WITH THE PARTICULAR ENTITY INVOLVED IN THE FURNISHING THE ITEM SUCH THAT THE PROPER SIZE & RATING OF THE MATERIALS ARE PURCHASED. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY. THIS APPLIES TO ALL EQUIPMENT UNDER OTHER SECTIONS & BY THE OWNER.
15. DUE TO THE REQUIREMENTS TO INTERFACE WITH EXISTING FACILITIES AND UTILITIES. IT IS RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING A JOC PROPOSAL.
16. PROVIDE ALL TRENCHING, EXCAVATION, BACK FILLING, SHORING. PUMPING, COMPACTION TEST ETC. THAT ARE REQUIRED FOR THE SCOPE OF ELECTRICAL WORK.
17. VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
18. ALL PANEL BOARDS, SWITCHES, MOTOR STARTERS AND SWITCHBOARD CIRCUIT BREAKERS SHALL HAVE ENGRAVED MICARTA NAMEPLATES.
19. ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ELECTRICAL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
20. PROVIDE ALL PANEL BOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE OWNER FOR APPROVAL PRIOR TO FINALIZATION.

LEGEND

—X—X—	EXISTING FENCE
—OH—	EXISTING OVERHEAD POWER LINE
	EXISTING CONDUIT, ABOVE GRADE
	EXISTING CONDUIT, BELOW GRADE
	PROPOSED RGS CONDUIT, ABOVE GRADE
	PROPOSED PVC SCH 40 CONDUIT, BELOW GRADE
E	PROPOSED ELECTRICAL PULL BOX
C	PROPOSED COMMUNICATIONS PULL BOX
J	PROPOSED JUNCTION BOX
	EXISTING LIGHT POLE
	EXISTING TREE
	BRANCH PANELBOARD/SWITCHBOARD
	DISTRIBUTION PANELBOARD/SWITCHBOARD
	AUTOMATIC TRANSFER SWITCH
GEN	PROPOSED GENERATOR SET ON NEW STRUCTURAL PAD. SEE STRUCTURAL DRAWINGS FOR PAD DETAILS.

ABBREVIATIONS

AFG	ABOVE FINISH GRADE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
EX.	EXISTING
GEC	GROUNDING ELECTRODE CONDUCTOR
GND	GROUND
IBC	INTERNATIONAL BUILDING CODE
IFC	INTERNATIONAL FIRE CODE
IMC	INTERMEDIATE METAL CONDUIT
IPC	INTERNATIONAL PLUMBING CODE
KCMIL	THOUSAND CIRCULAR MIL
MLO	MAIN LUG ONLY
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
PCP	PUMP CONTROL PANEL
RMC	RIGID METAL CONDUIT
RTU	REMOTE TERMINAL UNIT
SCCR	SHORT CIRCUIT CURRENT RATING
TYP.	TYPICAL
MH	MOUNT HEIGHT

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL GENERAL NOTES

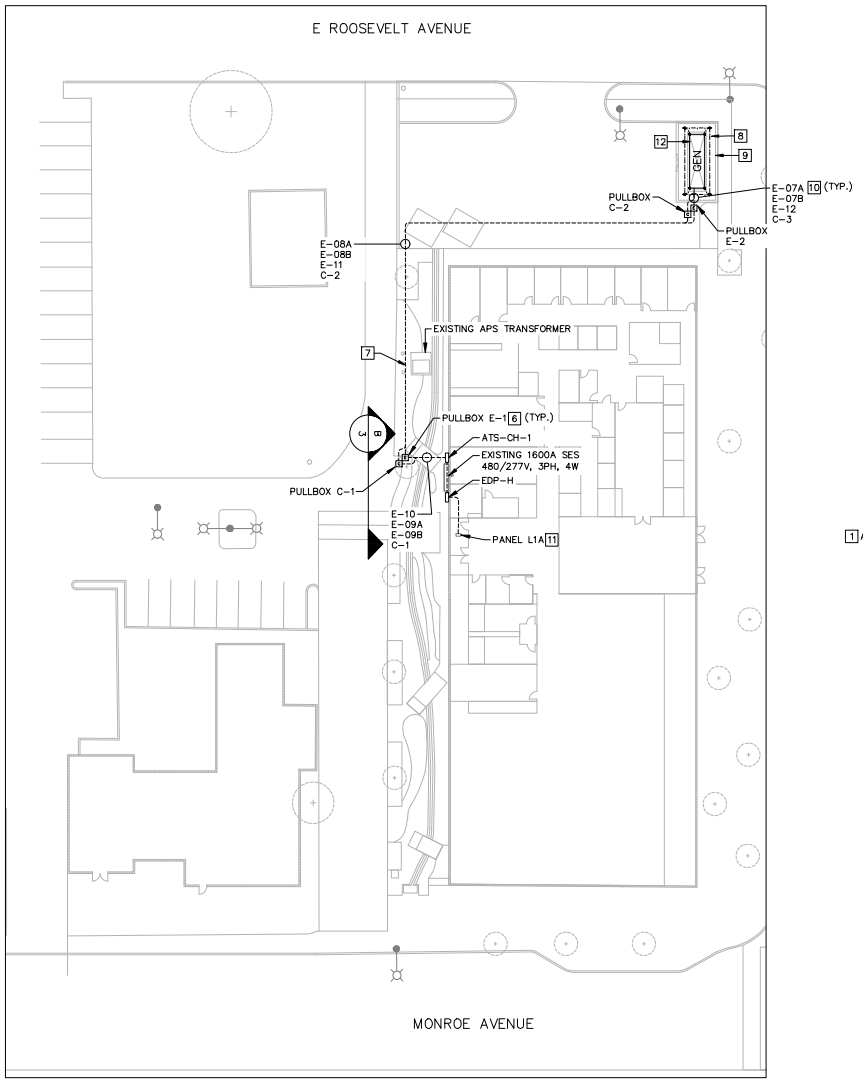
ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Registered Professional Engineer
CERTIFICATE NO. 30360
Nathan A. Colonna
Date Signed 07/07/20
ARIZONA, USA
Expires 12/31/21

SUBMITTAL: FINAL

ORIGINAL PLAN DATE 07/07/2020	LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012	SHEET NUMBER 2 of 8

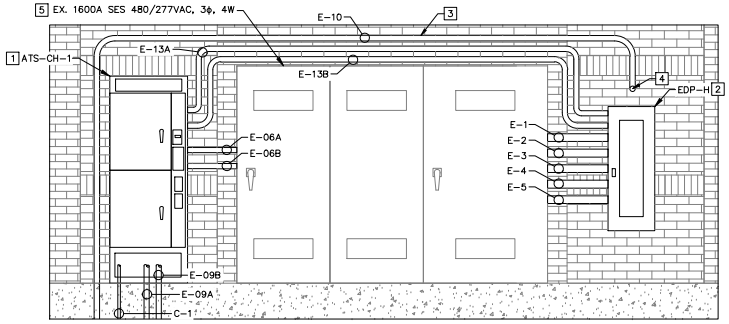
COB PLAN TRACKING #
COB PERMIT #



GRAPHIC SCALE IN FEET
0 10 20 40

NORTH

A
–
GENERATOR ELECTRICAL SITE PLAN
CITY HALL SERVER ROOM (530 MONROE AVENUE)
SCALE:1"=20'



B
–
PROPOSED ATS AND EMERGENCY DISTRIBUTION PANEL
CITY HALL SERVER ROOM (530 MONROE AVENUE)
SCALE:N.T.S.

CONSTRUCTION NOTES

1. 600A AUTOMATIC TRANSFER SWITCH 'ATS-CH-1'. MOUNT IN NEMA 3R CABINET ON GROUND BESIDE EXISTING SES. COORDINATE FINAL LOCATION IN FIELD WITH ENGINEER AND OWNER PRIOR TO ROUGH IN. SEE DETAILS ONE-LINE DIAGRAM SHEET 4. SEE INTERCONNECTION DETAILS ON 'CONDUIT AND CONDUCTOR SCHEDULE' SHEET 5.
2. 600A DISTRIBUTION PANEL 'EDP-H'. MOUNT PANEL AT LEAST 36" ABOVE FINAL GRADE. SEE PANEL CONNECTION DETAILS ON SINGLE LINE DIAGRAM SHEET 4. SEE INTERCONNECTION DETAILS ON 'CONDUIT AND CONDUCTOR SCHEDULE' SHEET 5. SEE PANEL SCHEDULE ON SHEET 5.
3. ROUTE NEW RGS CONDUITS ALONG BUILDING AS SHOWN. SEE SHEET 5 CONDUIT SCHEDULE FOR CONNECTION DETAILS.
4. PENETRATE WALL AND ROUTE GENERATOR 120/240V CONDUITS ALONG WALL WITH RGS CONDUIT. TRANSITION TO UNDERGROUND SCHED 40 PVC CONDUIT IN SAME TRENCH AS GENERATOR POWER CONDUITS. SEE CONDUIT SCHEDULE ON SHEET 5.
5. MODIFY EXISTING SES PER ONE-LINE DIAGRAM SHEET 4.
6. #5 ELECTRICAL PULLBOX. DETAIL SHOWN ON SHEET 6.
7. UNDERGROUND TRENCH DETAIL SHOWN ON SHEET 6.
8. PROVIDE GROUND RING FOR TRANSFORMER PER SPECIFICATIONS. GROUND ROD AND TEST WELL CONNECTION DETAIL SHOWN ON SHEET 6.
9. NEW WALL AND GATE AROUND GENERATOR. SEE STRUCTURAL PLANS ON SHEETS 7 AND 8.
10. SEE CONDUIT SCHEDULE ON SHEET 5 FOR CONDUIT AND INTERCONNECTION DETAILS.
11. EXISTING PANEL L1A TO POWER GENERATOR ANCILLARY LOADS. SEE ONE-LINE DIAGRAM SHEET 4, CONDUIT SCHEDULE, AND PANEL SCHEDULE ON SHEET 5.
12. PROPOSED 300 KW/375 KVA, 480/277V, 3P, 4W, NEMA 3R, DIESEL GENERATOR WITH 946 GALLON BELLY TANK AND LEVEL TWO ACOUSTIC ENCLOSURE.

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL SITE PLAN

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL

Registered Professional Engineer CERTIFICATE NO. 30360 Michael K. Colombo Date Signed 07/07/20 ARIZONA, USA
Expires 12/31/21

ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	3 of 8

SUBMITTAL: FINAL
COB PLAN TRACKING #
COB PERMIT #

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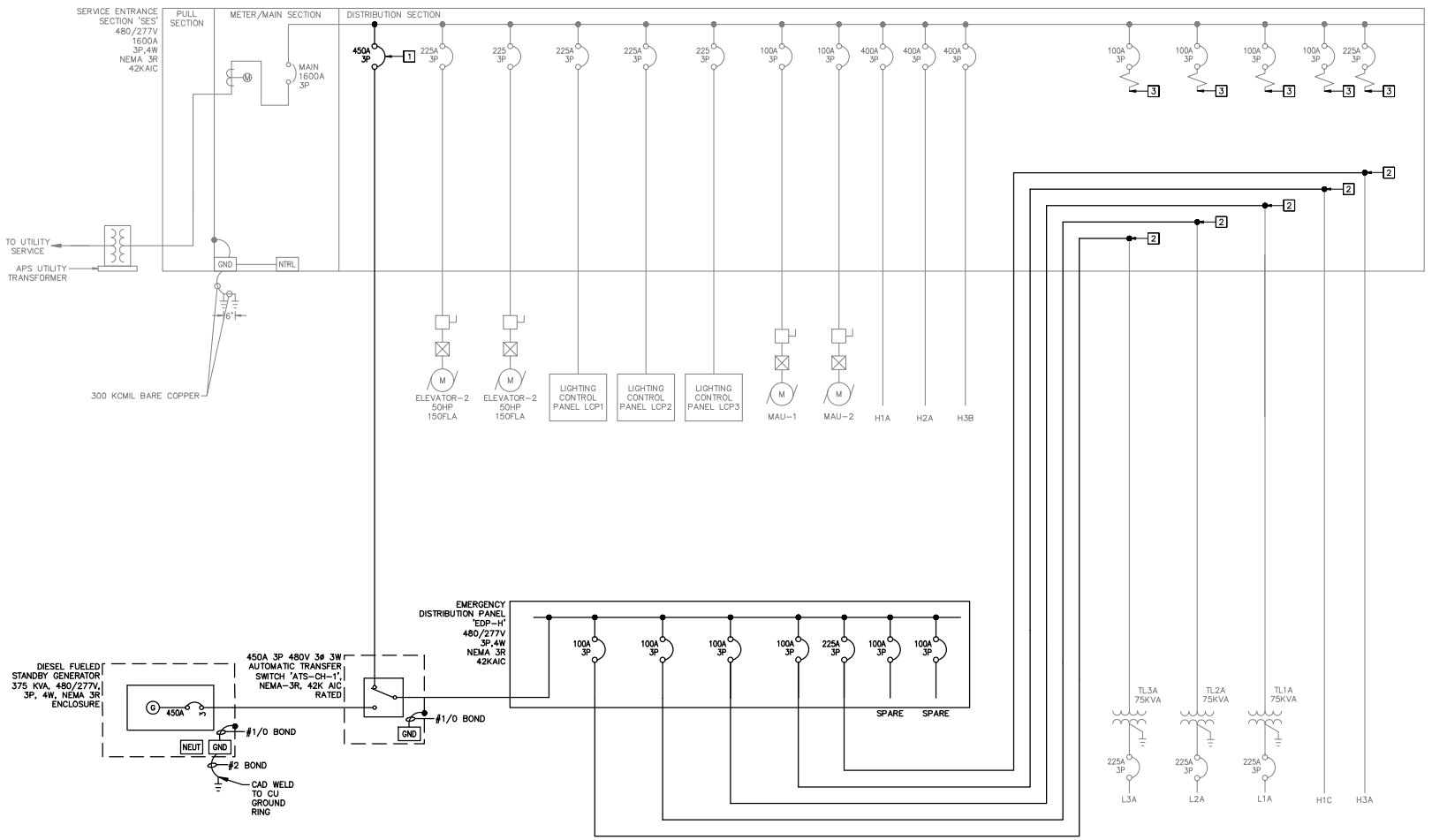

A ONELINE DIAGRAM
SCALE:NOT TO SCALE

CONSTRUCTION NOTES

1. PROVIDE NEW 450A 277/480V 3P CIRCUIT BREAKER IN EXISTING SES PANEL. PROVIDE NEW CONDUIT AND CONNECTION TO EMERGENCY DISTRIBUTION PANEL 'EDP-H'.
2. DISCONNECT LOAD SIDE OF CONDUCTOR COMING FROM EXISTING BREAKER. CONNECT EXISTING FEEDER TO NEW PANEL 'EDP-H'. ROUTE NEW CONDUCTOR INSIDE OF SES AND MAKE CONNECTION INSIDE SES. NOTE THE EXISTING EQUIPMENT SHOWN AS GREY AND NEW EQUIPMENT SHOWN AS BOLD FOR CLARITY.
3. EXISTING BREAKER TO REMAIN WITH EXISTING LOAD TO BE FED FROM NEW PANEL EDP-H. RELABEL BREAKER AS SPARE.

REVISIONS:

1

2

3

PLAN NAME

ELECTRICAL ONE LINE DIAGRAM

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL

DESIGN SEAL

Registered Professional Engineer (Electrical) CERTIFICATE NO. 50368 Michael A. Colombo Date Signed 07/07/20 ARIZONA, U.S.A.

Expires 12/31/21

CALL TWO WORKING DAYS BEFORE YOU DIG
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1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	4 of 8

COB PLAN TRACKING #

COB PERMIT #

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

445

ELECTRICAL UPGRADES CONDUIT AND CABLE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	CONDUIT STATUS	CONDUCTORS/CABLE QTY	CONDUCTORS/CABLE SIZE	FROM	TO	PURPOSE	REMARKS
E-01	2"	NEW	4	#1 AWG	EMERGENCY DISTRIBUTION PANEL PANEL EDP-H	TL3A FEEDER INSIDE EXISTING SES	POWER	ROUTE NEW CONDUIT FROM EDP-H TO EXISTING SES. MAKE CONNECTION TO EXISTING TRANSFORMER TL3A FEEDER INSIDE SES.
			1	#8 AWG			GROUND	
E-02	2"	NEW	4	#1 AWG	EMERGENCY DISTRIBUTION PANEL PANEL EDP-H	TL2A FEEDER INSIDE EXISTING SES	POWER	ROUTE NEW CONDUIT FROM EDP-H TO EXISTING SES. MAKE CONNECTION TO EXISTING TRANSFORMER TL2A FEEDER INSIDE SES.
			1	#8 AWG			GROUND	
E-03	2"	NEW	4	#1 AWG	EMERGENCY DISTRIBUTION PANEL PANEL EDP-H	TL1A FEEDER INSIDE EXISTING SES	POWER	ROUTE NEW CONDUIT FROM EDP-H TO EXISTING SES. MAKE CONNECTION TO EXISTING TRANSFORMER TL1A FEEDER INSIDE SES.
			1	#8 AWG			GROUND	
E-04	2"	NEW	4	#1 AWG	EMERGENCY DISTRIBUTION PANEL PANEL EDP-H	H1C FEEDER INSIDE EXISTING SES	POWER	ROUTE NEW CONDUIT FROM EDP-H TO EXISTING SES. MAKE CONNECTION TO EXISTING PANEL H1C FEEDER INSIDE SES.
			1	#8 AWG			GROUND	
E-05	3"	NEW	4	#4/0 AWG	EMERGENCY DISTRIBUTION PANEL PANEL EDP-H	H3A FEEDER INSIDE EXISTING SES	POWER	ROUTE NEW CONDUIT FROM EDP-H TO EXISTING SES. MAKE CONNECTION TO EXISTING PANEL H3A FEEDER INSIDE SES.
			1	#4 AWG			GROUND	
E-06A	3"	NEW	4	#4/0 AWG	NEW 450A SES 277/480V BREAKER	ATS-CH-1	POWER	PARALLEL CONDUIT TO ATS-CH-1
			1	#2 AWG			GROUND	
E-06B	3"	NEW	4	#4/0 AWG	NEW 450A SES 277/480V BREAKER	ATS-CH-1	POWER	PARALLEL CONDUIT TO ATS-CH-1
			1	#2 AWG			GROUND	
E-07A	3"	NEW	4	#4/0 AWG	GENERATOR	PULLBOX E-2	POWER	PARALLEL CONDUIT TO ATS-CH-1
			1	#2 AWG			GROUND	
E-07B	3"	NEW	4	#4/0 AWG	GENERATOR	PULLBOX E-2	POWER	PARALLEL CONDUIT TO ATS-CH-1
			1	#2 AWG			GROUND	
E-08A	3"	NEW	4	#4/0 AWG	PULLBOX E-2	PULLBOX E-1	POWER	PARALLEL CONDUIT TO ATS-CH-1
			1	#2 AWG			GROUND	
E-08B	3"	NEW	4	#4/0 AWG	PULLBOX E-2	PULLBOX E-1	POWER	PARALLEL CONDUIT TO ATS-CH-1
			1	#2 AWG			GROUND	
E-09A	3"	NEW	4	#4/0 AWG	PULLBOX E-1	ATS-CH-1	POWER	PARALLEL CONDUIT TO ATS-CH-1
			1	#2 AWG			GROUND	
E-09B	3"	NEW	4	#4/0 AWG	PULLBOX E-1	ATS-CH-1	POWER	PARALLEL CONDUIT TO ATS-CH-1
			1	#2 AWG			GROUND	
E-10	1"	NEW	4	#8 AWG	PANEL L1A	PULLBOX E-1	POWER	GENERATOR ANCILLARY LOADS: PANEL L1A, CKT 20 & 22
			1	#8 AWG			GROUND	
E-11	1"	NEW	4	#8 AWG	PULLBOX E-1	PULLBOX E-2	POWER	GENERATOR ANCILLARY LOADS: PANEL L1A, CKT 20 & 22
			1	#8 AWG			GROUND	
E-12	1"	NEW	4	#8 AWG	PULLBOX E-2	GENERATOR BLOCK HEATER/BATTERY CHARGER	POWER	GENERATOR ANCILLARY LOADS: PANEL L1A, CKT 20 & 22
			1	#8 AWG			GROUND	
E-13A	2"	NEW	4	#4/0 AWG	ATS-CH-1	PANEL EDP-H	POWER	PARALLEL CONDUIT TO PANEL EDP-H
			1	#2 AWG			GROUND	
E-13B	2"	NEW	4	#4/0 AWG	ATS-CH-1	PANEL EDP-H	POWER	PARALLEL CONDUIT TO PANEL EDP-H
			1	#2 AWG			GROUND	
C-1	1"	NEW	8-PR #16 AWG		ATS-CH-1	PULLBOX C-1	CONTROLS	ROUTE TO GEN CONTROL PANEL
C-2	1"	NEW	8-PR #16 AWG		PULLBOX C-1	PULLBOX C-2	CONTROLS	ROUTE TO GEN CONTROL PANEL
C-3	2"	NEW	8-PR #16 AWG		PULLBOX C-2	GENERATOR CONTROL PANEL	CONTROLS	ROUTE TO GEN CONTROL PANEL

A — CONDUIT AND CONDUCTOR SCHEDULE
SCALE:NOT TO SCALE

GENERATOR LOAD CALCULATION

LOAD DESCRIPTION	AMPS
EXISTING LOADS	
PANEL L1A	47
PANEL L2A	54
PANEL L3A	68
PANEL H1C	61
PANEL H3A	134
TOTAL CALCULATED DEMAND (EXISTING)	364
TOTAL REMOVED LOAD	0
PROPOSED LOADS	
PROPOSED LOAD (GENERATOR ANCILLARY LOADS)	4
TOTAL PROPOSED LOAD	4
FUTURE LOADS	0
TOTAL GEN LOAD (EXISTING-REMOVED+PROPOSED+FUTURE)	368
PERCENT LOADED % (TOTAL LOAD/452A)	81%

C — GENERATOR LOAD SUMMARY
SCALE:NOT TO SCALE

CONSTRUCTION NOTES

1 REPLACE EXISTING 20A/2P CIRCUIT BREAKER WITH TWO 20A/1P CIRCUIT BREAKERS FOR GENERATOR BATTERY CHARGER AND GENERATOR BLOCK HEATER.

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity				Load (A)	Distance	Voltage	Phase	Isc	**% Vdrop
1	Utility Published Data	32990	32,990											32,990	
2	SES	1	32,990	NM	Copper	4	Set of	600 KCMIL		1600	50	480	3	31,327	0.34%
3	ATS	2	31,327	NM	Copper	2	Set of	4/0		450	5	480	3	30,805	0.37%
4	EDPHA	3	30,805	NM	Copper	2	Set of	4/0		450	20	480	3	28,880	0.49%

D — FAULT CURRENT CALCULATION
SCALE:NOT TO SCALE

PANEL: L1A

VOLTAGE: 120/208 | PANEL BUS: 225 AMPS | PHASE, WIRES: 3p, 4W | MAIN: 225 BREAKER | SCCR (AMPS): 10,000 | SOURCE: T5 kVA TRANSFORMER TL3A

DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION
RECEPTS, RM 101	540	20/1	1	9			2	20/1	900	WATER FEATURE PUMP
RECEPTS, RM 101	900	20/1	3		12		4	20/1	900	LANDSCAPE LIGHTING
RECEPTS, RM 153, 154, 112	720	20/1	5			8	6	20/1	720	LIGHTING CONTROL PANEL
EWC, RM 112	500	20/1	7	5			8		180	NORTH PARKING LOT LIGHTING
RECEPTS, RM 152, 155, 157	540	20/1	9			8	10	20/2	180	
RECEPTS, RM 156	180	20/1	11				12		1350	
RECEPTS, RM 156	900	20/1	13	18			14	20/2	1800	(2) ATS, IU-1, IU-12, IU-13
RECEPTS, RM 156	720	20/1	15			02	16		2700	
SECURITY SYSTEM JUNCTION BOX RM 106	200	20/1	17				18	30/2	2700	(2) WAP, IU-107, IU-108, IU-109
SECURITY SYSTEM JUNCTION BOX RM 106	200	20/1	19			21	20		2700	
FIRE ALARM CONTROL PANEL, RM 106	200	20/1	21	17			22	20/1	1500	GENERATOR BATTERY CHARGER
ELEVATOR P1 LIGHTING AND RECEPTS	270	20/1	23				24	20/1	1500	GENERATOR BLOCK HEATER
ELEVATOR P1 SUMP PUMP	1296	20/1	25			11	26	20/1		SPARE
ELEVATOR EQUIP RM LIGHTS/RECEPTS	270	20/1	27	9			28	20/1	180	FIRE/SMOKE DAMPERS
ELEVATOR 1 EAS LIGHTING	1500	20/1	29		36		30	20/2	1370	(2) WAP, IU-104, IU-105
ELEVATOR 2 EAS LIGHTING	1500	20/1	31	25		28	32		1370	
RECEPTS, RM 108, 109, 111, 152	900	20/1	33	9			34	20/2	720	(2) MH, IU-102, IU-103
RECEPTS, ENTRANCE	1260	20/1	35		12		36		720	
FIRE ALARM BELL	100	20/1	37			4	38	20/1		SPARE
RECEPTS SPECIAL RM 106	2400	30/2	39	23			40	20/1	360	WAP-101
	2400		41		39		42		2250	EWH-101
LIGHTING DESK RM 151	130	20/1	43			26	44	30/2	2250	
			TOTALS:	87.6	132.7	108.5	AMPS			

LOAD CALCULATIONS: SUBTOTAL (VA): 39235; +25% PER NEC (VA): 9810; TOTAL (VA): 49045 @ 208V, 3Ø = 136.3 AMPS

*NEW LOADS INDICATED BY BOLD

PANEL: L3A

VOLTAGE: 120/208 | PANEL BUS: 225 AMPS | PHASE, WIRES: 3p, 4W | MAIN: 225 BREAKER | SCCR (AMPS): 10,000 | SOURCE: 75kVA TRANSFORMER TL3A

DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION
RECEPTS, RM 305, 308-310	720	20/1	1	37			2	20/1	360	OU-102, OU-103, OU-201, OU-202
RECEPTS, RM 301-304, 307, 309	1080	20/1	3		40		4	20/1	360	
EWC, RM 309	900	20/1	5			37	6	20/1	2140	OU-101, OU-301, OU-302
FIRE ALARM JUNCTION BOX RM 305	200	20/1	7	25			8	20/2	3740	
SECURITY SYSTEM JUNCTION BOX RM 305	200	20/1	9		14		10		1440	SYSTEM FURNITURE RM 352
RECEPTS RM 306	360	20/1	11			15	12	20/2	1440	SYSTEM FURNITURE RM 352
RECEPTS RM 306	360	20/1	13	15			14		1440	SYSTEM FURNITURE RM 352
RECEPTS RM 305	360	20/1	15		16		16	30/2	1440	SYSTEM FURNITURE RM 352
RECEPTS RM 305, 310	900	20/1	17			20	18		1440	SYSTEM FURNITURE RM 352
LIGHTING CONTROL PANEL	200	20/1	19	16			20	20/1	1440	SYSTEM FURNITURE RM 352
KEYBOOK RECEPTS 1-OUT+4	1440	20/1	21		54		22	20/1	1440	SYSTEM FURNITURE RM 352
KEYBOOK RECEPTS 1-OUT+4	1260	20/1	23			19	24	20/1		SPARE
SYSTEM FURNITURE RM 352	1440	20/1	25	16			26	20/1	440	FIRE/SMOKE DAMPERS
SYSTEM FURNITURE RM 352	1440	20/1	27		22		28	20/1	9144	(3) MH
SYSTEM FURNITURE RM 352	1440	20/1	29			22	30		9144	
RECEPTS ROOF	1260	20/1	31	11			32	20/2	83	(2) MH, IU-101, IU-302
IU-304, U305, IU-306, IU-307, IU-308, IU-309, IU-310, IU-311, IU-312, IU-313, IU-314, IU-315	2729	20/1	33		23		34		83	
	2729	20/1	35			38	36	20/1	1620	ROOF RECEPTACLES
	2879	30/2	37	27			38	20/1	360	WAP-103
	2879		39		43		40		2250	EWH-103
LIGHTING UNDER COUNTER RM 304	200	20/1	41			20	42	30/2	2250	
			TOTALS:	143.6	179.9	150.2	AMPS			

LOAD CALCULATIONS: SUBTOTAL (VA): 50844; +25% PER NEC (VA): 14211; TOTAL (VA): 79055 @ 208V, 3Ø = 197.4 AMPS

*NEW LOADS INDICATED BY BOLD

PANEL: EDP-H

VOLTAGE: 277/480 | PANEL BUS: 400A AMPS | PHASE, WIRES: 3p, 4W | MAIN: MLO BREAKER | SCCR (AMPS): 42,000 | SOURCE: 450A SES BREAKER

DESCRIPTION	CB	CKT	A	B	C	CKT	CB	KVA	DESCRIPTION
TRANSFORMER TL3A	19	1	122			2		15	
	19	3		122		4	100/3	15	TRANSFORMER TL2A
	19	5			122	6		15	
TRANSFORMER TL1A	13	7	107			8		17	
	13	9		107		10	100/3	17	PANEL H1C
	13	11			107	12		17	
PANEL H3A	27	13	134			14			SPARE
	27	15		134		16	100/3		
	27	17			134	18			
SPARE		19	0			20			SPACE
	100/3	21		0		22			SPACE
		23			0	24			SPACE
SPACE		25	0			26			SPACE
SPACE		27		0		28			SPACE
SPACE		29			0	30			SPACE
SPACE		31	0			32			SPACE
SPACE		33		0		34			SPACE
SPACE		35			0	36			SPACE
SPACE		37	0			38			SPACE
SPACE		39		0		40			SPACE
SPACE		41			0	42			SPACE
		TOTALS:	363.5	363.5	363.5	AMPS			

LOAD CALCULATIONS: SUBTOTAL (KVA): 302; +25% PER NEC (KVA): 76; TOTAL (KVA): 378 @ 480V, 3Ø = 454.4 AMPS

*NEW LOADS INDICATED BY BOLD

PANEL: L2A

VOLTAGE: 120/208 | PANEL BUS: 225 AMPS | PHASE, WIRES: 3p, 4W | MAIN: 225 BREAKER | SCCR (AMPS): 10,000 | SOURCE: 75kVA TRANSFORMER TL2A

DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION
RECEPTS, RM 206, 210, 235	900	20/1	1	9			2	20/1	360	LIGHTING CONTROL PANEL
RECEPTS, RM 202, 203, 219	540	20/1	3		17		4	20/1	1440	SYSTEM FURNITURE RM 237
EWC, RM 219	540	20/1	5			16	6	20/1	1440	SYSTEM FURNITURE RM 237
RECEPTS, RM 201, 204, 208, 227, 229	1260	20/1	7	23			8	20/1	1440	SYSTEM FURNITURE RM 237
SECURITY SYSTEM JUNCTION BOX RM 205	200	20/1	9		14		10	20/2	1440	SYSTEM FURNITURE RM 237
RECEPTS, RM 205	200	20/1	11			14	12		1440	SYSTEM FURNITURE RM 237
RECEPTS, RM 205	200	20/1	13	14			14		1440	SYSTEM FURNITURE RM 237
RECEPTS, RM 205	200	20/1	15		14		16	20/2	1440	SYSTEM FURNITURE RM 237
SYSTEM FURNITURE RM 237	1440	20/1	17			18	18		720	SYSTEM FURNITURE RM 237
SYSTEM FURNITURE RM 237	1440	20/1	19	32			20	20/1	2400	
SYSTEM FURNITURE RM 237	1440	20/1	21		32		22	20/1	2400	RECEPTS SPECIAL RM 206
SYSTEM FURNITURE RM 237	1440	20/1	23			12	24	20/1		SPARE
SYSTEM FURNITURE RM 237	1440	20/1	25	17			26	20/1	180	FIRE/SMOKE DAMPERS
SYSTEM FURNITURE RM 237	1440	20/1	27		22		28	20/2	9144	
SYSTEM FURNITURE RM 237	1440	20/1	29			22	30		9144	(3) 303
SYSTEM FURNITURE RM 237	1440	20/1	31	13			32	20/2	83	IU-205, IU-252
SYSTEM FURNITURE RM 237	1440	20/1	33		13		34		83	
SYSTEM FURNITURE RM 237	1440	20/1	35			13	36	20/1		SPARE
SYSTEM FURNITURE RM 237	1440	20/1	37	15			38	20/1	360	WAP-102
SYSTEM FURNITURE RM 237	1440	20/1	39		37		40	20/1	360	EWH-104
SPARE		20/1	41			13	42		2250	
			TOTALS:	121.6	146.8	112.1	AMPS			

LOAD CALCULATIONS: SUBTOTAL (VA): 46840; +25% PER NEC (VA): 11720; TOTAL (VA): 58560 @ 208V, 3Ø = 168.1 AMPS

*NEW LOADS INDICATED BY BOLD

PANEL: H3A

VOLTAGE: 277/480 | PANEL BUS: 225A AMPS | PHASE, WIRES: 3p, 4W | MAIN: MLO BREAKER | SCCR (AMPS): 30,000 | SOURCE: 225A SES BREAKER

DESCRIPTION	KVA	CB	CKT	A	B	C	CKT	CB	KVA	DESCRIPTION
LIGHTING RM 301	1	20/1	1	22			2		5	
LIGHTING RM 302, 303	2	20/1	3			20	4		5	OU 104, OU-105
LIGHTING RM 309, 352	2	20/1	5			23	6		5	
LIGHTING RM 304, 305, 306, 307, 308	2	20/1	7	26			8		5	
LIGHTING RM 311-313, 321	2	20/1	9		31		10		6	OU 203, OU-303
LIGHTING RM 320, 322-329	2	20/1	11			32	12		6	
LIGHTING RM 352	3	20/1	13	19			14		3	
LIGHTING RM 330-332	2	20/1	15		16		16		3	AC-1
LIGHTING RM 333-334	2	20/1	17			15	18		3	
LIGHTING RM 335	2	20/1	19	15			20		3	
LIGHTING RM 336-351	3	20/1	21		19		22		3	AC-2
LIGHTING RM 352	2	20/1	23			16	24		3	
	2		25	16			26		2	
OUTDOOR UNIT OU-16	2	20/3	27			16	28		2	EXISTING LOAD
	2		29				30		2	
OUTDOOR UNIT OU-17	2	20/3	31	17			32	20/3	2	OUTDOOR UNIT OU-19
	2		33			17	34		2	
OUTDOOR UNIT OU-18	2	20/3	35		17		36		2	OUTDOOR UNIT OU-20
	2		37			17	38		2	
	2		41				42		2	
			TOTALS:	130.5	136.1	134.8	AMPS			

LOAD CALCULATIONS: SUBTOTAL (KVA): 111; +25% PER NEC (KVA): 28; TOTAL (KVA): 139 @ 480V, 3Ø = 167.4 AMPS

*NEW LOADS INDICATED BY BOLD

PANEL: H1C

VOLTAGE: 277/480 | PANEL BUS: 225A AMPS | PHASE, WIRES: 3p, 4W | MAIN: MLO BREAKER | SCCR (AMPS): 30,000 | SOURCE: 225A SES BREAKER

DESCRIPTION	KVA	CB	CKT	A	B	C	CKT	CB	KVA	DESCRIPTION
LIGHTING RM 137	1	20/1	1	3			2			SPARE
LIGHTING RM 137	1	20/1	3		3		4			SPACE
LIGHTING RM 136, 138-140	1	20/1	5			5	6			SPACE
SPARE		20/1	7	0			8			SPACE
SPARE		20/1	9		0		10			SPACE
SPARE		20/1	11			0	12			SPACE
LIGHTING RM 130	3	20/1	13	9			14			SPACE
LIGHTING RM 131 SOUTH	1	20/1	15		2		16			SPACE
LIGHTING RM 131 PERIMETER	1	20/1	17			5	18			SPACE
LIGHTING RM 131 STAND	1	20/1	19	2			20			SPACE
LIGHTING RM 1031 CENTER	1	20/1	21		4		22			SPACE
LIGHTING RM 131 ACCENT	1	20/1	23			3	24			SPACE
SPARE			25	0			26			SPACE
LIGHTING RM 132-135	1	20/1	27		3		28			SPACE
SPARE			29			0	30			SPACE
SPACE			31	0			32			SPACE
SPACE		20/1	33		0		34			SPACE
SPACE			35			0	36			SPACE
	14		37	50			38			SPACE
PANEL L1C	14	20/3	39		49		40			SPACE
	13		41			45	42			SPACE
			TOTALS:	63.9	60.0	56.2	AMPS			

LOAD CALCULATIONS: SUBTOTAL (KVA): 50; +25% PER NEC (KVA): 13; TOTAL (KVA): 63 @ 480V, 3Ø = 75.9 AMPS

*NEW LOADS INDICATED BY BOLD

B — PANEL SCHEDULES
SCALE:NOT TO SCALE

REVISIONS:

1

2

3

PLAN NAME

ELECTRICAL SCHEDULES

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

SUBMITTAL: FINAL

AS-BUILT SEAL

DESIGN SEAL

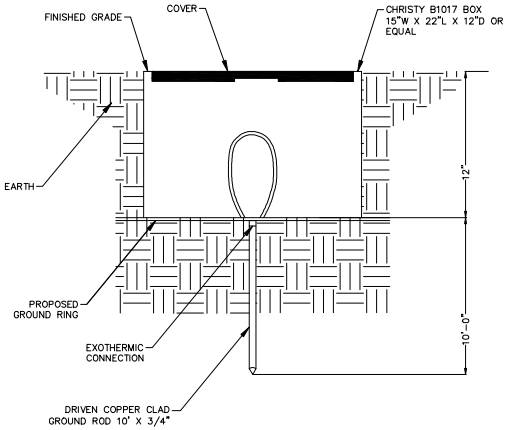
REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE NO. 30360 — Michael K. Colonno — Date Signed 07/07/20 — ARIZONA, USA — Expires 12/31/21

CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100 1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)

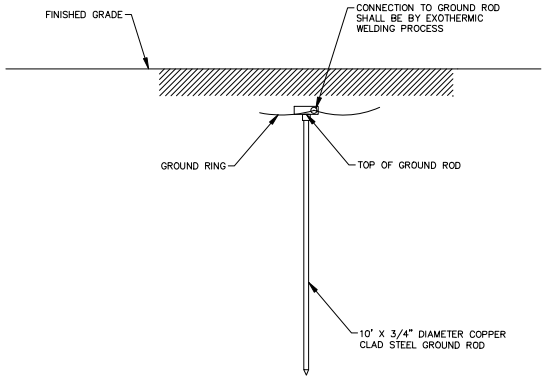
ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	5 of 8

COB PLAN TRACKING #

COB PERMIT #



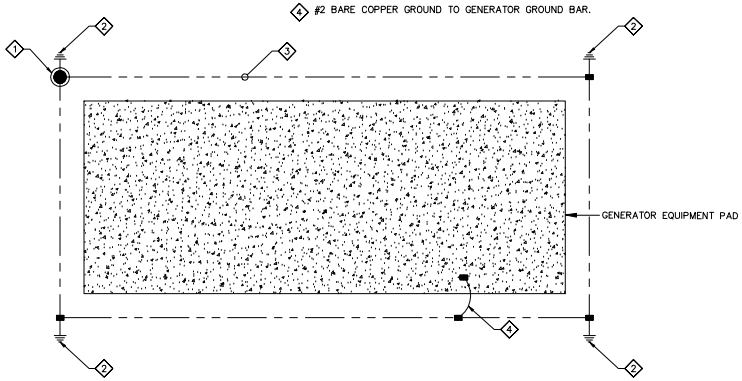
A — GROUNDING TEST WELL DETAIL
SCALE:N.T.S.



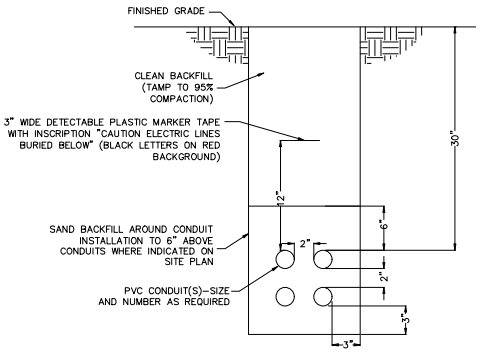
B — GROUND ROD DETAIL
SCALE:N.T.S.

GROUNDING NOTES

1. PROVIDE GROUND TEST POINT PER GROUDING TEST WELL DETAIL.
2. PROVIDE 10' X 3/4" COPPER CLAD GROUND ROD PER GROUND ROD DETAIL .
3. #2 BARE COPPER GROUND GRID BURIED AT 30" BELOW FINISHED GRADE.
4. #2 BARE COPPER GROUND TO GENERATOR GROUND BAR.



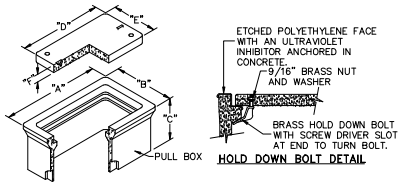
C — GENERATOR GROUNDING PLAN
SCALE:N.T.S.



ALL DIMENSIONS ARE
MINIMUM

NOTE:
1) THIS CONDUIT DUCT BANK DETAIL SHALL BE REFERENCED FOR ALL UNDER GROUND CONDUIT INSTALLATIONS.

D — TYPICAL UNDERGROUND CONDUIT INSTALLATION DETAIL
SCALE:NOT TO SCALE



HOLD DOWN BOLT DETAIL

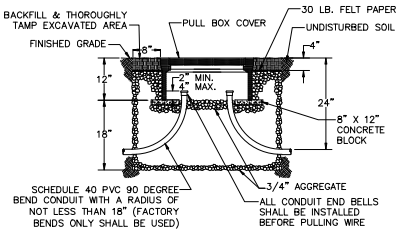


LID 'A' REINFORCED CONCRETE W/HOLD DOWN BOLTS

LID 'A'

DATA TABLE

PULLBOX TYPE	PULLBOX LENGTH	PULLBOX WIDTH	PULLBOX HEIGHT	LID LENGTH	LID WIDTH	LID HEIGHT
	"A"	"B"	"C"	"D"	"E"	"F"
#3 1/2	19-3/4"	14-1/4"	12"	15-1/4"	10"	1-3/4"
#5	25-1/4"	15-3/4"	12"	20-5/8"	10-1/2"	2"
#7	34-3/4"	21-3/4"	12"	30-1/8"	17-5/8"	2"



GENERAL NOTES:

1. THE PULL BOX SHALL BE MADE OF A HIGH DENSITY REINFORCED CONCRETE MATERIAL WITH END & SIDE KNOCKOUTS, & NONSETTLING SHOULDERS TO MAINTAIN GRADE, MANUFACTURED WITH APPROXIMATE DIMENSIONS AS SHOWN.
2. STEEL REINFORCEMENT SHALL BE AS REGULARLY USED IN STANDARD PRODUCTS OF THE RESPECTIVE MANUFACTURER.
3. COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS: "ELECTRIC" OR "HIGH VOLTAGE", AS REQUIRED.
4. THE PULL BOX SHALL HAVE AN ETCHED POLYETHYLENE FACE WITH AN ULTRAVIOLET INHIBITOR ANCHORED IN CONCRETE.

E — PULL BOX INSTALLATION DETAIL
SCALE:NOT TO SCALE

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL DETAILS

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL

Registered Professional Engineer
CERTIFICATE NO. 30360
Michael K. Colonno
Date Signed 07/07/20
ARIZONA, USA

Expires 12/31/21

ORIGINAL PLAN DATE 07/07/2020
LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012
SHEET NUMBER 6 of 8

COB PLAN TRACKING #
COB PERMIT #

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

STRUCTURAL GENERAL NOTES

DESIGN SPECIFICATIONS

2018 INTERNATIONAL BUILDING CODE (IBC) WITH THE CITY OF BUCKEYE AMENDMENTS.

DESIGN LOADS

WIND LOADS: (PER ASCE 7-16)
BASIC WIND SPEED = ULTIMATE DESIGN WIND SPEED . . . . . .101 MPH
RISK CATEGORY II
Iw 1.00
STRUCTURE TYPE . . . . . .SOLID FREE-STANDING WALL
EXPOSURE . . . . . ."C"

MAIN WIND FORCE RESISTING SYSTEM:
DESIGN WIND PRESSURE . . . . . .15.72 psf (STRENGTH LEVEL)
INTERNAL PRESSURE COEFFICIENT 0.00

EARTHQUAKE DESIGN DATA:
Ie 1.00
SITE CLASS . . . . . .D
S_s . . . . . 0.167g S_1 . . . . . .0.077g
S_{DS} . . . . . 0.178g S_{D1} 0.123g
SEISMIC DESIGN CATEGORY . . . . . .B
DESIGN BASE SHEAR (C_s*W) 0.051W
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

EARTH LOADS:
ALLOWABLE BEARING PRESSURE = 1500 PSF
ACTIVE EARTH PRESSURE = 45 PCF
AT-REST EARTH PRESSURE = 60 PCF
PASSIVE EARTH PRESSURE = 100 PCF
= 0.25 (W/OUT PASSIVE PRESSURE)
MODULUS OF SUBGRADE REACTION = 100 PCI

FOUNDATIONS

FOOTING BEARING DEPTH = 20" MIN.

FOR TOP OF FOOTING ELEVATIONS, SEE PERIMETER WALL PLAN THIS SHEET.

ALL EXCAVATION SHALL BE PROPERLY BACKFILLED. FOOTING BACKFILL WITHIN THE FOOTING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE SPECIAL INSPECTOR. FLOODING WILL NOT BE PERMITTED.

WALL BACKFILL MATERIAL, PLACEMENT AND COMPACTION SHOULD COMPLY IN FULL WITH THE PROJECT SPECIFICATIONS. COMPACTION OF EACH LIFT ADJACENT TO WALLS SHALL BE ACCOMPLISHED WITH HAND OPERATED TAMPERS OR OTHER LIGHTWEIGHT COMPACTORS. FLOODING OR JETTING IS PROHIBITED.

SLAB ON GRADE SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. SLAB ON GRADE PREPARATION SHALL BE PREPARED AS STATED IN THE PROJECT SPECIFICATIONS. FOR SLAB-ON-GRADE, THE UPPER 12 INCHES OF SUBGRADE SOILS AND AGGREGATE SUBBASE SHOULD CONSIST OF IMPORTED LOW VOLUME CHANGE MATERIALS." EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE SPECIAL INSPECTOR PRIOR TO PLACING THE CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR WHEN THE EXCAVATIONS ARE READY FOR INSPECTION. THE SPECIAL INSPECTOR SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE SPECIAL INSPECTOR, FOOTING ELEVATIONS, OR FOOTING DESIGNS WILL BE ALTERED BY CHANGE ORDER.

CONCRETE REINFORCING

SEE MAG STANDARD SPECIFICATIONS SECTION 505 AND 725 CLASS A (TYPE II) CONCRETE.

MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH, f'c = 3000 PSI.
REINFORCING STEEL, ASTM A615 GRADE 60, fy = 60,000 PSI.

MASONRY AND REINFORCING:

MASONRY: F'm = 1500 PSI; ASTM C90; MEDIUM WEIGHT; RUNNING BOND; STANDARD BLOCK

MORTAR: ASTM C270; TYPE S; CUBE STRENGTH = 1800 PSI

GROUT: ASTM C476, TYPE = COARSE; CUBE STRENGTH = 2000 PSI.

JOINT NOTES

MASONRY:
MASONRY WALL FOOTINGS AND SLAB ON GRADE MAY BE CONTINUOUS WITH NO JOINT.

DIMENSIONS

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND ELEVATIONS WITH THE CIVIL GRADING DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY PRIOR TO START OF CONSTRUCTION.

GENERAL

THE CONTRACT PERIMETER WALL AND SLAB DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO , BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. CONTRACTOR IS RESPONSIBLE FOR ALL O.S.H.A. REQUIREMENTS, NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES AND/OR CONFLICTS.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ARIZONA.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PROVIDED PER 2018 INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17.

A. STEEL CONSTRUCTION (SECTION 1705.2)
B. CONCRETE CONSTRUCTION (TABLE 1705.3)
MASONRY CONSTRUCTION (SECTION 1705.4)
C. SOILS (TABLE 1705.6)

POST-INSTALLED ANCHORS

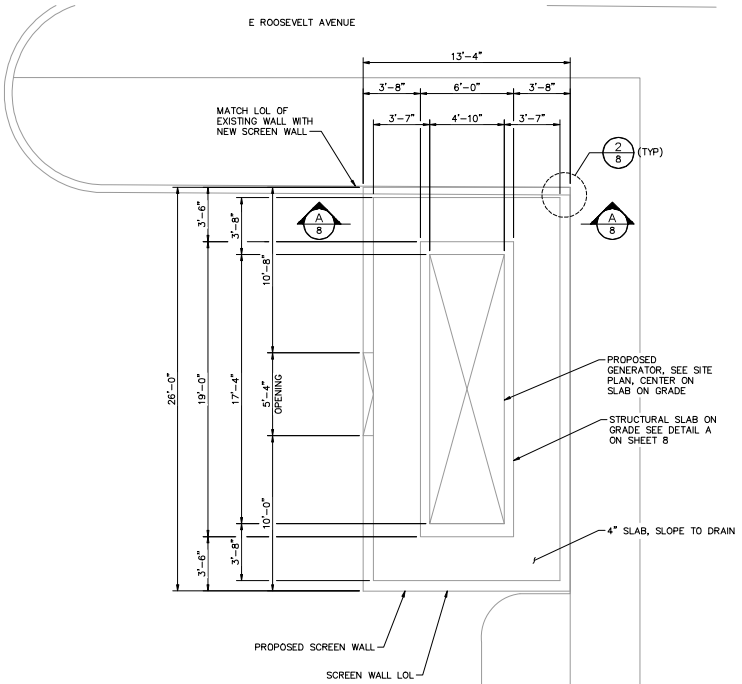
1. UNLESS NOTED OTHERWISE ON PLANS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES, OR APPROVED EQUAL:

	ADHESIVE ANCHOR	MECHANICAL ANCHOR
SOLID CONCRETE	HILTI RE 500 V3 HILTI HY 200 SAFE SET SYSTEM	HILTI KWIK HUS EZ HILTI KWIK BOLT TZ
GROUTED MASONRY	HILTI HY 270	HILTI KWIK BOLT 3
HOLLOWED MASONRY OR BRICK	HILTI HY 270 W/ APPROPRIATE TUBE SCREEN	HILTI HLC SLEEVE ANCHOR

2. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.
3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
4. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
5. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
6. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AWAY FROM THE LOCATIONS OF THE CONCRETE ANCHORS.

ABBREVIATIONS

ASTM.....AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL
CLR.....CLEARANCE
CONT.....CONTINUOUS
MAX.....MAXIMUM
MIN.....MINIMUM
MPH.....MILES PER HOUR
O.C.....ON CENTER
PCF.....POUNDS PER CUBIC FOOT
PSF.....POUNDS PER SQUARE FOOT
PSI.....POUNDS PER SQUARE INCH
TYP.....TYPICAL
LOL.....LAYOUT LINE
T/F.....TOP OF FOUNDATION
T/W.....TOP OF WALL



PERIMETER WALL PLAN
CITY HALL SERVER ROOM (530 MONROE AVENUE)
A
SCALE: 1/4"=1'-0"

NORTH

NOTE:

CONTRACTOR SHALL VERIFY LOCATION OF SLAB AND ENCLOSURE WALL WITH ENGINEER PRIOR TO CONSTRUCTION.

REVISIONS:
1
2
3

PLAN NAME
STRUCTURAL NOTES AND PLAN

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
SUBMITTAL: FINAL
AS-BUILT SEAL
DESIGN SEAL
Professional Engineer CERTIFICATE NO. 60164 NATHAN MERRILL Registered Professional Engineer ARIZONA, USA
ORIGINAL PLAN DATE 07/07/2020
LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012
SHEET NUMBER 7 of 8
COB PLAN TRACKING #
COB PERMIT #

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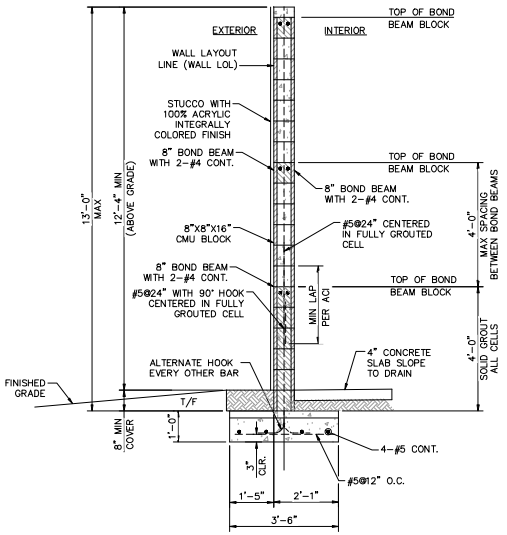
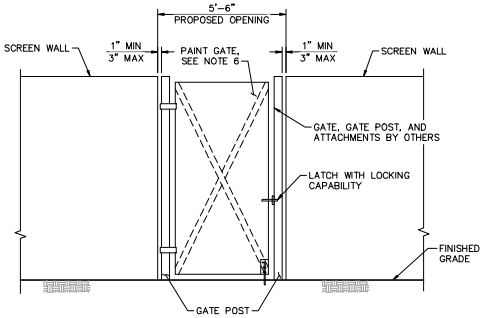


1 — WALL SECTION
SCALE:1/2"=1'-0"



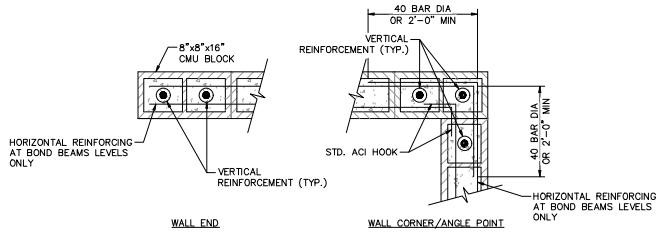
3 — GATE DETAIL
SCALE:3/8"=1'-0"

GATE NOTES:

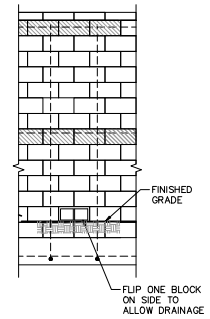
1. GATE DESIGN SHALL BE IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION'S CODE REQUIREMENTS. THE GATE MANUFACTURER SHALL HAVE A LICENSED PROFESSIONAL ENGINEER SEAL AND SIGN THE GATE CALCULATIONS AND SHOP DRAWINGS.
2. LOAD COMBINATIONS USED IN GATE DESIGN SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE.
3. GATE DEFLECTION IN THE VERTICAL DIRECTION SHALL NOT EXCEED ⅛".
4. IF GATE FOUNDATIONS ARE NECESSARY, SIZES AND LOCATIONS SHALL BE DESIGNATED BY THE GATE MANUFACTURER AND APPROVED BY THE ENGINEER OF RECORD BEFORE CONSTRUCTION.
5. CENTER GATE DOOR IN PROPOSED OPENING.
6. SUBMIT PAINT COLOR TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. GATE SHALL BE GRAY OR BLACK.
7. SUBMIT GATE SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED CIVIL ENGINEER IN THE STATE OF ARIZONA.
8. HOT DIP GALVANIZE STEEL GATE ELEMENTS ACCORDING TO ASTM A123/A123M.

WALL NOTES:

1. PROVIDE STUCCO FINISH ON THE CMU ENCLOSURE WALL STUCCO THICKNESS AND FINISH SHALL MATCH EXISTING WALL ON PROJECT SITE.
2. WALL SHALL BE PAINTED PER PROJECT SPECIFICATIONS. COLOR TO MATCH THE COLOR OF EXISTING WALL PAINT SYSTEM AND COLOR SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.



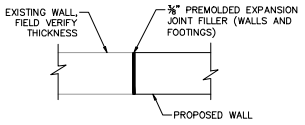
2 — TYPICAL MASONRY DETAILS
SCALE:NOT TO SCALE



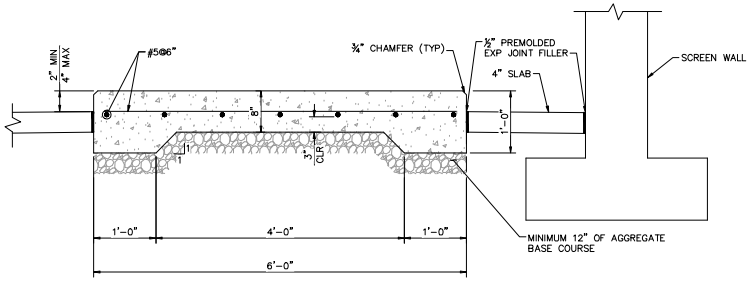
NOTE:

IF THE LOW POINT OF ENCLOSURE SLAB IS NOT AT OPENING, PROVIDE DRAINAGE BLOCK AS SHOWN IN DETAIL.

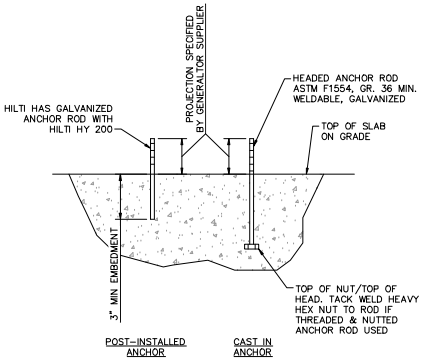
4 — WALL DRAIN DETAIL
SCALE:3/8"=1'-0"



2 — TYPICAL WALL CONNECTION DETAIL
SCALE:NOT TO SCALE



A — GENERATOR CONCRETE PAD
SCALE:1"=1'



B — TYP ANCHOR DETAIL
SCALE:NOT TO SCALE

NOTES:

1. POST-INSTALLED ADHESIVE ANCHOR RODS ARE ACCEPTABLE IN LIEU OF CAST-IN HEADED ANCHOR RODS AT GENERATOR ANCHOR LOCATIONS.
2. POST-INSTALLED ADHESIVE ANCHOR RODS SHALL STRICTLY FOLLOW MANUFACTURER'S INSTRUCTIONS FOR HOLE SIZE, DRILLING OPERATIONS, PREPARATION, AND MATERIAL HANDLING.
3. SETTING TEMPLATES SHALL BE USED TO SUPPORT ANCHOR RODS DURING CONCRETE PLACEMENT.
4. ANCHOR RODS SHALL BE INSTALLED PLUMB TO FACILITATE THE WASHER AND NUT RESTING FLUSH ON THE BASE PLATE.
5. ALTERNATE POST-INSTALLED ANCHORAGE SYSTEM OF EQUAL PROPERTIES MAY BE USED IN LEIU OF DETAIL SHOWN UPON ENGINEERS APPROVAL.
6. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.

CITY HALL SERVER ROOM (530 MONROE AVENUE)

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

REVISIONS:
1
2
3

PLAN NAME
STRUCTURAL DETAILS

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Professional Engineer CERTIFICATE NO. 60164 NATHAN MERRILL Registered Professional ARIZONA, U.S.A.

SUBMITTAL: FINAL

ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	8 of 8

COB PLAN TRACKING #
COB PERMIT #

City of Buckeye Emergency Generator Repair: Buckeye, AZ

STRUCTURAL CALCULATIONS FOR: City Hall Center Generator Pad

Prepared By:
Nathan Merrill, PE
Ph: 602-371-4573
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7740 N. 16th St
Suite 300
Phoenix AZ, 85020



Date: May 2020

Kimley»Horn

Design References:

1. 2018 International Building Code

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1. DESIGN LOADS

Kimley»Horn

Project: ***Emergency Generator Repair - City Hall*** *Subject:* ***Generator Pad Load Summary***

Designed by: ***ALF*** *Date:* ***04/29/2020*** *Checked by:* *Date:*

Table of Contents
Defined Units

Assumptions

Assume Generator is supplying power to Risk Category II structures, therefore generator is RC II.

Assume Generator is anchored to concrete pad at the 4 corners of the acoustic generator pad, not acoustic enclosure.

Assume X direction aligns with generator length, and Y direction aligns with generator width.

Acoustin Enclosure dimensions used to calculate wind loads.

Generator Specifications

$L_{gen} := 208\,in = 17.33\,ft$	Length of generator - 300 kW Diesel Generator Specification - see appendix.
$W_{gen} := 58\,in = 4.83\,ft$	Width of generator - 300 kW Diesel Generator Specification - see appendix.
$H_{gen} := 108\,in = 9\,ft$	Height of Generator - 300 kW Diesel Generator Specification - see appendix.
$L_{enc} := 208\,in = 17.33\,ft$	Length of Enclosure - 300 kW Diesel Generator Specification - see appendix..
$W_{enc} := 57.6\,in = 4.8\,ft$	Width of Enclosure - 300 kW Diesel Generator Specification - see appendix.
$H_{enc} := 148\,in = 12.33\,ft$	Height of Enclosure - 300 kW Diesel Generator Specification - see appendix.
$n_{anchors} := 4$	Number of Anchors assumed.

Soils Information

Assume conservative values from IBC Section 1610 & 1806

$p_a := 45\,pcf$	Active Soil Pressure
$p_{ar} := 60\,pcf$	At-Rest Soil Pressure
$p_p := 100\,pcf$	Passive Soil Pressure
$w_{soil} := 120\,pcf$	Unit Weight of Soil
$\mu := 0.25$	Soil Sliding Friction Factor

Generator Loading

$q_{wind} := 15.72psf$

Applied Wind pressure. Maximum Tedds Run - see Wind Loading Calculations

$V_{seismic} := 0.9kip$

Seismic Base Shear - see Seismic Loading Calculations. Apply at mid height of equipment to calculate anchor reactions.

$Weight_{gen} := 17.979kip$

300 kW Diesel Generator Specification - see appendix.

$$X_{wind} := \frac{\left(q_{wind} \cdot W_{enc} \cdot H_{enc}\right)}{n_{anchors}} = 0.23 \cdot kip$$

$$Y_{wind} := \frac{\left(q_{wind} \cdot L_{enc} \cdot H_{enc}\right)}{n_{anchors}} = 0.84 \cdot kip$$

$$Z_{wind} := \frac{\left[\frac{\left[\left(q_{wind} \cdot L_{enc} \cdot H_{enc}\right) \cdot \frac{H_{enc}}{2}\right]}{\left(\frac{W_{gen}}{2}\right)}\right]}{\frac{n_{anchors}}{2}} = 4.29 \cdot kip$$

Governing uplift- assumed wind is acting on Length of enclosure. Couple analyzed in Y direction for governing uplift - used for anchor design. Dead Load not added - conservative

$$Z_{seismic} := \frac{\left[\frac{\left[\left(V_{seismic}\right) \cdot \frac{H_{enc}}{2}\right]}{\left(\frac{W_{gen}}{2}\right)}\right]}{\frac{n_{anchors}}{2}} = 1.15 \cdot kip$$

Seismic uplift/compression - couple analyzed in Y direction for governing uplift

By inspection Wind Governs anchor and slab design.

$$Z_{strength} := \left(1.2 \cdot \frac{Weight_{gen}}{n_{anchors}}\right) + Z_{wind} = 9.68 \cdot kip$$

Vertical Shear transferred through anchor. Used for slab design

Bearing Check

Check governs over enercalc design - uses full slab area instead of 1 ft tributary width

$L_{pad} := 19ft$

Length of pad

$W_{pad} := 6ft$

Width of pad

Assumed bearing Capacity

$\sigma_{brg} := 1500psf$

$C_{brg} := \sigma_{brg} \cdot L_{pad} \cdot W_{pad} = 171 \cdot kip$

Bearing Capacity

$D_{brg} := Z_{strength} \cdot n_{anchors} = 38.73 \cdot kip$

Bearing Demand

$CH_{brg} := if\left(C_{brg} > D_{brg}, "OK", "NG"\right) = "OK"$

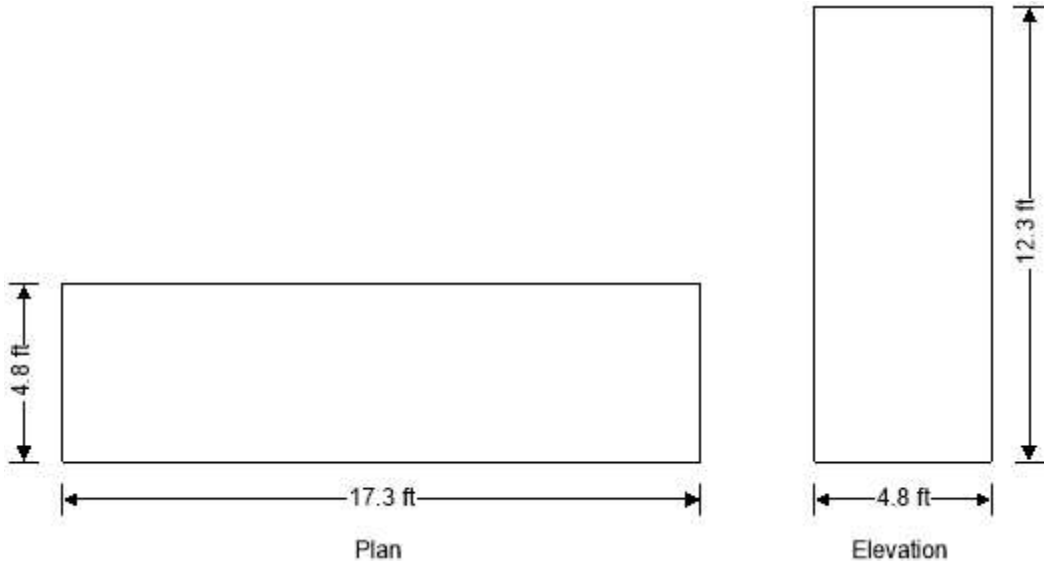
1.1 WIND LOADS

WIND LOADING

In accordance with ASCE7-16

Using the directional design method

Tedds calculation version 2.1.03



Building data

Type of roof	Flat
Length of building	b = **17.33** ft
Width of building	d = **4.80** ft
Height to eaves	H = **12.33** ft
Mean height	h = **12.33** ft

General wind load requirements

Basic wind speed	V = **101.0** mph
Risk category	II
Velocity pressure exponent coef (Table 26.6-1)	K_d = **0.85**
Ground elevation above sea level	z_{gl} = **873** ft
Ground elevation factor	$K_e = \exp(-0.0000362 \times z_{gl}/1ft)$ = **0.97**
Exposure category (cl 26.7.3)	C
Enclosure classification (cl.26.12)	Enclosed buildings
Internal pressure coef +ve (Table 26.13-1)	GC_{pi_p} = **0.18**
Internal pressure coef –ve (Table 26.13-1)	GC_{pi_n} = **-0.18**
Gust effect factor	G_f = **0.85**
Minimum design wind loading (cl.27.4.7)	p_{min_r} = **8** lb/ft^2

Topography

Topography factor not significant	K_{zt} = 1.0
Velocity pressure equation	$q = 0.00256 \times K_z \times K_{zt} \times K_d \times V^2 \times 1psf/mph^2$

Velocity pressures table

z (ft)	K_z (Table 26.10-1)	q_z (psf)

z (ft)	K_z (Table 26.10-1)	q_z (psf)
12.33	0.85	18.28

Peak velocity pressure for internal pressure

Peak velocity pressure – internal (as roof press.) q_i = **18.28** psf

Pressures and forces

Net pressure $p = q \times G_f \times C_{pe} - q_i \times GC_{pi}$

Net force $F_w = p \times A_{ref}$

Roof load case 1 - Wind 0, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (-ve)	12.33	-1.30	18.28	-23.49	83.18	-1.95

Total vertical net force $F_{w,v}$ = **-1.95** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 1 - Wind 0, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	12.33	0.80	18.28	9.14	213.68	1.95
B	12.33	-0.50	18.28	-11.06	213.68	-2.36
C	12.33	-0.70	18.28	-14.17	59.18	-0.84
D	12.33	-0.70	18.28	-14.17	59.18	-0.84

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_0} = b \times H$ = **213.68** ft^2

Projected vertical area of roof $A_{vert\_r\_0}$ = **0.00** ft^2

Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_0} + p_{min\_r} \times A_{vert\_r\_0}$ = **3.42** kips

Leeward net force $F_l = F_{w,wB}$ = **-2.4** kips

Windward net force $F_w = F_{w,wA}$ = **2.0** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min})$ = **4.3** kips

Roof load case 2 - Wind 0, GC_{pi} -0.18, $-0c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (+ve)	12.33	-0.18	18.28	0.49	83.18	0.04

Total vertical net force $F_{w,v}$ = **0.04** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 2 - Wind 0, GC_{pi} -0.18, $-0c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	12.33	0.80	18.28	15.72	213.68	3.36

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
B	12.33	-0.50	18.28	-4.48	213.68	-0.96
C	12.33	-0.70	18.28	-7.59	59.18	-0.45
D	12.33	-0.70	18.28	-7.59	59.18	-0.45

Overall loading

Projected vertical plan area of wall — $A_{vert\_w\_0} = b \times H =$ **213.68** ft^2

Projected vertical area of roof — $A_{vert\_r\_0} =$ **0.00** ft^2

Minimum overall horizontal loading — $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_0} + p_{min\_r} \times A_{vert\_r\_0} =$ **3.42** kips

Leeward net force — $F_l = F_{w,wB} =$ **-1.0** kips

Windward net force — $F_w = F_{w,wA} =$ **3.4** kips

Overall horizontal loading — $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min}) =$ **4.3** kips

Roof load case 3 - Wind 90, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (-ve)	12.33	-1.07	18.28	-19.90	29.59	-0.59
B (-ve)	12.33	-0.82	18.28	-15.96	29.59	-0.47
C (-ve)	12.33	-0.58	18.28	-12.37	24.00	-0.30

Total vertical net force — $F_{w,v} =$ **-1.36** kips

Total horizontal net force — $F_{w,h} =$ **0.00** kips

Walls load case 3 - Wind 90, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	12.33	0.80	18.28	9.14	59.18	0.54
B	12.33	-0.22	18.28	-6.70	59.18	-0.40
C	12.33	-0.70	18.28	-14.17	213.68	-3.03
D	12.33	-0.70	18.28	-14.17	213.68	-3.03

Overall loading

Projected vertical plan area of wall — $A_{vert\_w\_90} = d \times H =$ **59.18** ft^2

Projected vertical area of roof — $A_{vert\_r\_90} =$ **0.00** ft^2

Minimum overall horizontal loading — $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_90} + p_{min\_r} \times A_{vert\_r\_90} =$ **0.95** kips

Leeward net force — $F_l = F_{w,wB} =$ **-0.4** kips

Windward net force — $F_w = F_{w,wA} =$ **0.5** kips

Overall horizontal loading — $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min}) =$ **0.9** kips

Roof load case 4 - Wind 90, GC_{pi} -0.18, $+c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (+ve)	12.33	-0.18	18.28	0.49	29.59	0.01
B (+ve)	12.33	-0.18	18.28	0.49	29.59	0.01
C (+ve)	12.33	-0.18	18.28	0.49	24.00	0.01

Total vertical net force $F_{w,v}$ = **0.04** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 4 - Wind 90, GC_{pi} -0.18, $+c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	12.33	0.80	18.28	15.72	59.18	0.93
B	12.33	-0.22	18.28	-0.12	59.18	-0.01
C	12.33	-0.70	18.28	-7.59	213.68	-1.62
D	12.33	-0.70	18.28	-7.59	213.68	-1.62

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_90} = d \times H$ = **59.18** ft^2

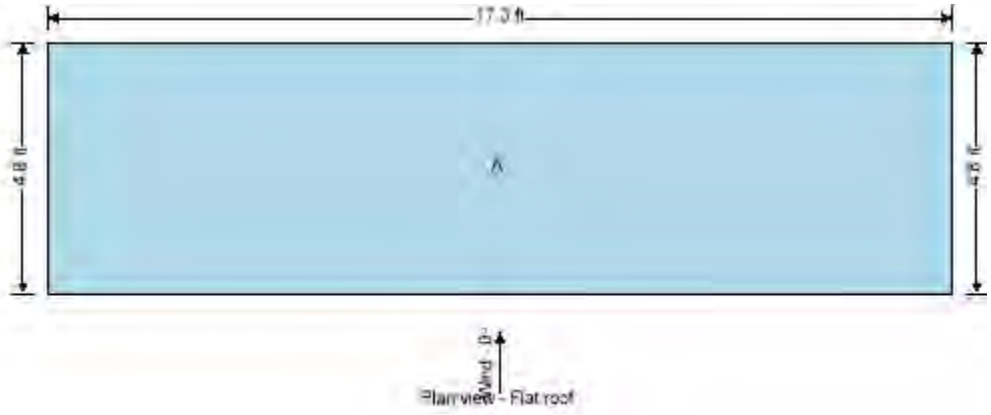
Projected vertical area of roof $A_{vert\_r\_90}$ = **0.00** ft^2

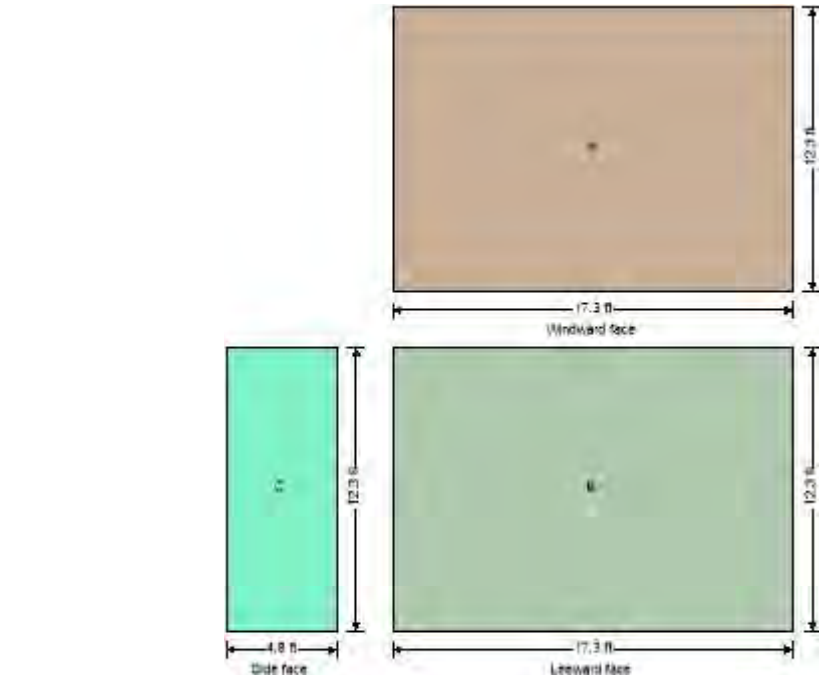
Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_90} + p_{min\_r} \times A_{vert\_r\_90}$ = **0.95** kips

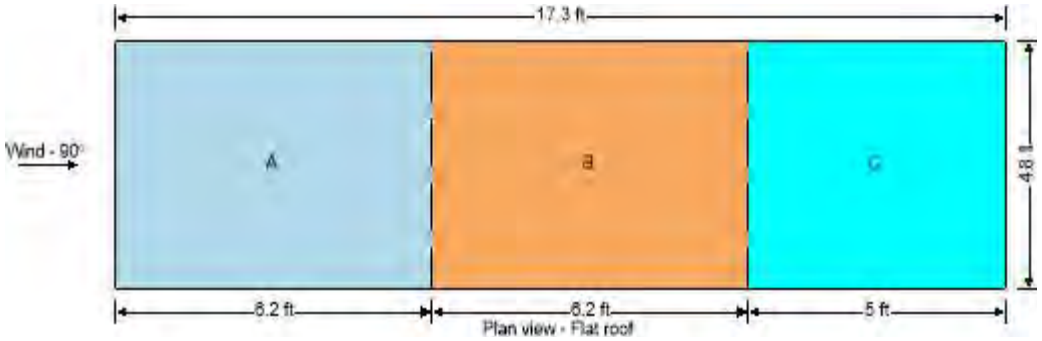
Leeward net force $F_l = F_{w,wB}$ = **0.0** kips

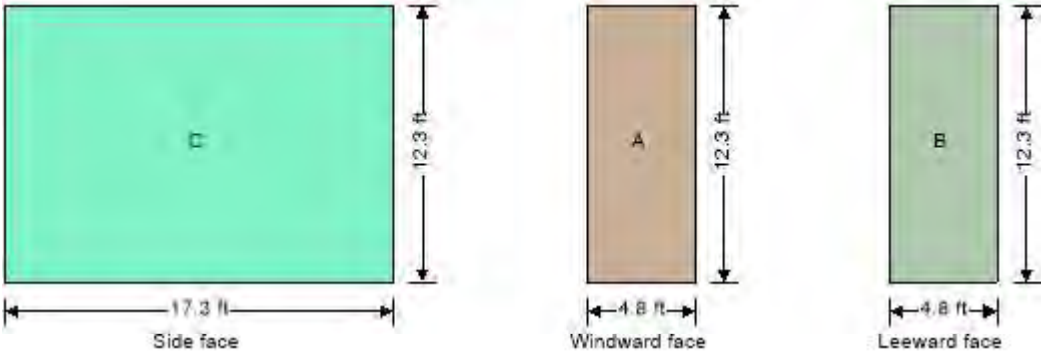
Windward net force $F_w = F_{w,wA}$ = **0.9** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min})$ = **0.9** kips




12.3 ft
17.3 ft
Windward face
C
12.3 ft
B
12.3 ft
4.8 ft
Side face
17.3 ft
Leeward face


17.3 ft
Wind - 90°
A
B
C
4.8 ft
6.2 ft
6.2 ft
5 ft
Plan view - Flat roof


C
12.3 ft
17.3 ft
Side face
A
12.3 ft
4.8 ft
Windward face
B
12.3 ft
4.8 ft
Leeward face

1.2 SEISMIC LOADS

SEISMIC FORCES (ASCE 7-16)

Tedds calculation version 3.1.00

Site parameters

Site class	D, Soil properties not known
Mapped acceleration parameters (Section 11.4.2)	
at short period	S_S = **0.167**
at 1 sec period	S_1 = **0.077**
Site coefficientat short period (Table 11.4-1)	F_a = **1.600**
at 1 sec period (Table 11.4-2)	F_v = **2.400**

Spectral response acceleration parameters

at short period (Eq. 11.4-1)	$S_{MS} = F_a \times S_S$ = **0.267**
at 1 sec period (Eq. 11.4-2)	$S_{M1} = F_v \times S_1$ = **0.185**

Design spectral acceleration parameters (Sect 11.4.4)

at short period (Eq. 11.4-3)	$S_{DS} = 2 / 3 \times S_{MS}$ = **0.178**
at 1 sec period (Eq. 11.4-4)	$S_{D1} = 2 / 3 \times S_{M1}$ = **0.123**

Seismic design category

Occupancy category (Table 1-1)	II
Seismic design category based on short period response acceleration (Table 11.6-1)	B
Seismic design category based on 1 sec period response acceleration (Table 11.6-2)	B
Seismic design category	B

Approximate fundamental period

Height above base to highest level of building	h_n = **12.33** ft
From Table 12.8-2:	
Structure type	Steel moment frame
Building period parameter C_t	C_t = **0.028**
Building period parameter x	x = **0.80**
Approximate fundamental period (Eq 12.8-7)	$T_a = C_t \times (h_n)^x \times 1\text{sec} / (1\text{ft})^x$= **0.209** sec
Building fundamental period (Sect 12.8.2)	$T = T_a$ = **0.209** sec
Long-period transition period	T_L = **6** sec

Seismic response coefficient

Seismic force-resisting system (Table 12.2-1)	C_MOMENT_RESISTING_FRAME_SYSTEMS 4. Steel ordinary moment frames
Response modification factor (Table 12.2-1)	R = **3.5**
Seismic importance factor (Table 1.5-2)	I_e = **1.000**
Seismic response coefficient (Sect 12.8.1.1)	
Calculated (Eq 12.8-3)	$C_{s\_calc} = S_{DS} / (R / I_e)$ = **0.0509**
Maximum (Eq 12.8-3)	$C_{s\_max} = S_{D1} / ((T / 1\text{ sec}) \times (R / I_e))$ = **0.1685**
Minimum (Eq 9.5.5.2.1-3)	$C_{s\_min} = \max(0.044 \times S_{DS} \times I_e, 0.01)$ = **0.0100**

Seismic response coefficient	C_s = **0.0509**

Seismic base shear (Sect 12.8.1)

Effective seismic weight of the structure	W = **18.0** kips
Seismic response coefficient	C_s = **0.0509**
Seismic base shear (Eq 12.8-1)	$V = C_s \times W$ = **0.9** kips

2. SLAB ON GRADE DESIGN

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - City Hall

CODE REFERENCES

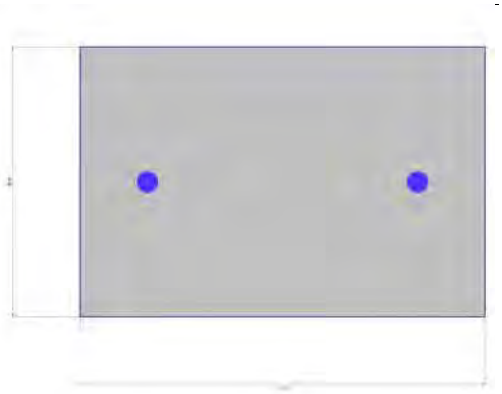
Calculations per ACI 318-14, IBC 2015, CBC 2016, ASCE 7-10
Load Combinations Used : ASCE 7-16

Material Properties

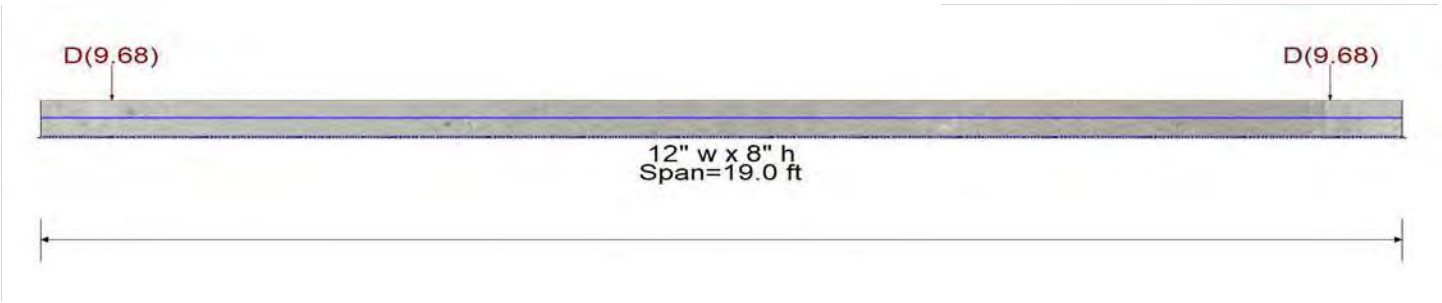
f'c	=	3.0 ksi	ϕ Phi Values	Flexure :	0.90
fr = f'c$^{1/2}$ * 7.50	=	410.792 psi		Shear :	0.750
ψ Density	=	145.0 pcf	β_1	=	0.850
λ Lt Wt Factor	=	1.0			
Elastic Modulus	=	3,122.0 ksi			

Soil Subgrade Modulus = 100.0 psi / (inch deflection)
Load Combination : ASCE 7-16

fy - Main Rebar	=	60.0 ksi	Fy - Stirrups	=	40.0 ksi
E - Main Rebar	=	29,000.0 ksi	E - Stirrups	=	29,000.0 ksi
			Stirrup Bar Size #	=	# 4
			Number of Resisting Legs Per Stirrup		2



Beam is supported on an elastic foundation,



Cross Section & Reinforcing Details

Rectangular Section, Width = 12.0 in, Height = 8.0 in
Span #1 Reinforcing....
2-#5 at 4.0 in from Top, from 0.0 to 19.0 ft in this span

Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Point Load : D = 9.680 k @ 1.0 ft
Point Load : D = 9.680 k @ 18.0 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.758 : 1	Maximum Deflection	
Section used for this span		Typical Section	Max Downward L+Lr+S Deflection	0.000 in
Mu : Applied		-7.174 k-ft	Max Upward L+Lr+S Deflection	0.000 in
Mn * Phi : Allowable		9.464 k-ft	Max Downward Total Deflection	0.328 in
Load Combination		D Only	Max Upward Total Deflection	-0.124 in
Location of maximum on span		4.694 ft		
Span # where maximum occurs		Span # 1		

Bearing pressures checked in Mathcad for full slab area

Maximum Soil Pressure = 4.723 ksf at 19.00 ft LdComb: D Only
Allowable Soil Pressure = 1.50 ksf EXCEEDED!

Shear Stirrup Requirements

Between 0.00 to 0.89 ft, PhiVc/2 < Vu <= PhiVc, Req'd Vs = Not Reqd 11.5.6.1, use stirrups spaced at 0.000 in
Between 1.12 to 1.34 ft, Vu > PhiVc, Req'd Vs = 0.1536, use stirrups spaced at 2.000 in
Between 1.56 to 17.21 ft, PhiVc/2 < Vu <= PhiVc, Req'd Vs = Not Reqd 11.5.6.1, use stirrups spaced at 0.000 in
Between 17.44 to 17.88 ft, Vu > PhiVc, Req'd Vs = 1.412, use stirrups spaced at 2.000 in
Between 18.11 to 18.55 ft, Vu < PhiVc/2, Req'd Vs = Not Reqd, use stirrups spaced at 0.000 in

Maximum Forces & Stresses for Load Combinations

Load Combination / Segment Length	Span #	Location (ft) in Span	Bending Stress Results (k-ft) Mu : Max	Phi*Mnx	Stress Ratio
MAXimum Bending Envelope					
Span # 1	1	18.106	1.40	9.46	0.15

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - City Hall

Load Combination / Segment Length	Span #	Location (ft) in Span	Bending Stress Results (k-ft) Mu : Max	Phi*Mnx	Stress Ratio
D Only					
Span # 1	1	18.106	1.40	9.46	0.15

Overall Maximum Deflections - Unfactored Loads

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
Span 1	1	0.3280	19.000	Span 1	-0.1244	9.500

Detailed Shear Information

Load Combination	Span Number	Distance (ft)	'd' (in)	Vu (k) Actual	Vu (k) Design	Mu (k-ft)	d*Vu/Mu	Phi*Vc (k)	Comment	Phi*Vs (k)	Spacing (in) Req'd	Spacing (in) Suggest
D Only	1	0.00	4.00	0.41	0.41	0.00	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.22	4.00	1.20	1.20	0.09	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.45	4.00	1.96	1.96	0.36	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.67	4.00	2.68	2.68	0.80	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	0.89	4.00	3.36	3.36	1.40	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.12	4.00	-5.67	5.67	1.01	1.00	4.91	Vu > PhiVc	0.7647	0.00	2.00
D Only	1	1.34	4.00	-5.06	5.06	0.26	1.00	4.91	Vu > PhiVc	0.1536	0.00	2.00
D Only	1	1.56	4.00	-4.49	4.49	1.39	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.79	4.00	-3.95	3.95	2.39	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.01	4.00	-3.44	3.44	3.28	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.24	4.00	-2.98	2.98	4.05	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.46	4.00	-2.54	2.54	4.71	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.68	4.00	-2.14	2.14	5.28	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.91	4.00	-1.77	1.77	5.76	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.13	4.00	-1.43	1.43	6.15	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.35	4.00	-1.13	1.13	6.47	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.58	4.00	-0.85	0.85	6.73	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.80	4.00	-0.60	0.60	6.92	0.69	4.55	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.02	4.00	-0.38	0.38	7.05	0.43	4.24	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.25	4.00	-0.18	0.18	7.13	0.20	3.98	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.47	4.00	-0.00	0.00	7.17	0.01	3.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.69	4.00	0.14	0.14	7.17	0.16	3.93	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.92	4.00	0.27	0.27	7.14	0.31	4.10	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.14	4.00	0.38	0.38	7.08	0.43	4.25	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.36	4.00	0.47	0.47	7.00	0.53	4.37	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.59	4.00	0.54	0.54	6.89	0.62	4.47	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.81	4.00	0.59	0.59	6.77	0.70	4.56	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.04	4.00	0.63	0.63	6.64	0.75	4.62	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.26	4.00	0.65	0.65	6.50	0.80	4.67	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.48	4.00	0.66	0.66	6.35	0.83	4.71	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.71	4.00	0.65	0.65	6.21	0.84	4.72	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.93	4.00	0.64	0.64	6.06	0.84	4.72	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.15	4.00	0.61	0.61	5.92	0.83	4.71	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.38	4.00	0.58	0.58	5.78	0.80	4.67	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.60	4.00	0.53	0.53	5.65	0.75	4.62	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.82	4.00	0.48	0.48	5.54	0.70	4.56	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.05	4.00	0.42	0.42	5.43	0.63	4.47	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.27	4.00	0.36	0.36	5.33	0.54	4.38	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.49	4.00	0.29	0.29	5.25	0.45	4.27	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.72	4.00	0.22	0.22	5.19	0.35	4.15	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.94	4.00	0.15	0.15	5.14	0.24	4.02	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.16	4.00	0.08	0.08	5.10	0.12	3.88	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.39	4.00	0.00	0.00	5.09	0.00	3.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.61	4.00	-0.08	0.08	5.09	0.12	3.89	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.84	4.00	-0.15	0.15	5.10	0.24	4.02	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.06	4.00	-0.22	0.22	5.14	0.35	4.15	Vu < PhiVc/2	Not Reqd	0.00	0.00

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - City Hall

Detailed Shear Information

Load Combination	Span Number	Distance (ft)	'd' (in)	Vu Actual	(k) Design	Mu (k-ft)	d*Vu/Mu	Phi*Vc (k)	Comment	Phi*Vs (k)	Spacing (in) Req'd	Spacing (in) Suggest
D Only	1	10.28	4.00	-0.29	0.29	5.19	0.45	4.28	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.51	4.00	-0.36	0.36	5.25	0.55	4.39	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.73	4.00	-0.42	0.42	5.33	0.64	4.49	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.95	4.00	-0.48	0.48	5.43	0.71	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.18	4.00	-0.53	0.53	5.54	0.77	4.64	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.40	4.00	-0.58	0.58	5.65	0.81	4.69	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.62	4.00	-0.61	0.61	5.78	0.85	4.73	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.85	4.00	-0.64	0.64	5.92	0.86	4.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.07	4.00	-0.65	0.65	6.06	0.86	4.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.29	4.00	-0.66	0.66	6.21	0.85	4.73	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.52	4.00	-0.65	0.65	6.35	0.82	4.69	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.74	4.00	-0.63	0.63	6.50	0.77	4.64	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.96	4.00	-0.59	0.59	6.64	0.71	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.19	4.00	-0.54	0.54	6.77	0.63	4.48	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.41	4.00	-0.47	0.47	6.89	0.54	4.38	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.64	4.00	-0.38	0.38	7.00	0.43	4.25	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.86	4.00	-0.27	0.27	7.08	0.31	4.10	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.08	4.00	-0.14	0.14	7.14	0.16	3.94	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.31	4.00	0.00	0.00	7.17	0.01	3.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.53	4.00	0.18	0.18	7.17	0.20	3.98	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.75	4.00	0.38	0.38	7.13	0.42	4.24	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.98	4.00	0.60	0.60	7.05	0.68	4.54	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	15.20	4.00	0.85	0.85	6.92	0.98	4.89	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	15.42	4.00	1.13	1.13	6.73	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	15.65	4.00	1.43	1.43	6.47	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	15.87	4.00	1.77	1.77	6.15	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	16.09	4.00	2.14	2.14	5.76	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	16.32	4.00	2.54	2.54	5.28	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	16.54	4.00	2.98	2.98	4.71	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	16.76	4.00	3.44	3.44	4.05	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	16.99	4.00	3.95	3.95	3.28	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	17.21	4.00	4.49	4.49	2.39	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	17.44	4.00	5.06	5.06	1.39	1.00	4.91	Vu > PhiVc	0.1536	0.00	2.00
D Only	1	17.66	4.00	5.67	5.67	0.26	1.00	4.91	Vu > PhiVc	0.7647	0.00	2.00
D Only	1	17.88	4.00	6.32	6.32	1.01	1.00	4.91	Vu > PhiVc	1.412	0.00	2.00
D Only	1	18.11	4.00	-2.68	2.68	1.40	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	18.33	4.00	-1.96	1.96	0.80	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	18.55	4.00	-1.20	1.20	0.36	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	18.78	4.00	-0.41	0.41	0.09	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00

3. ANCHOR DESIGN

Company:	Kimley-Horn and Associates, Inc	Page:	1
Address:	111 East Broadway, 600	Specifier:	J.Goodsell
Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	City Hall	Date:	5/7/2020
Fastening point:			

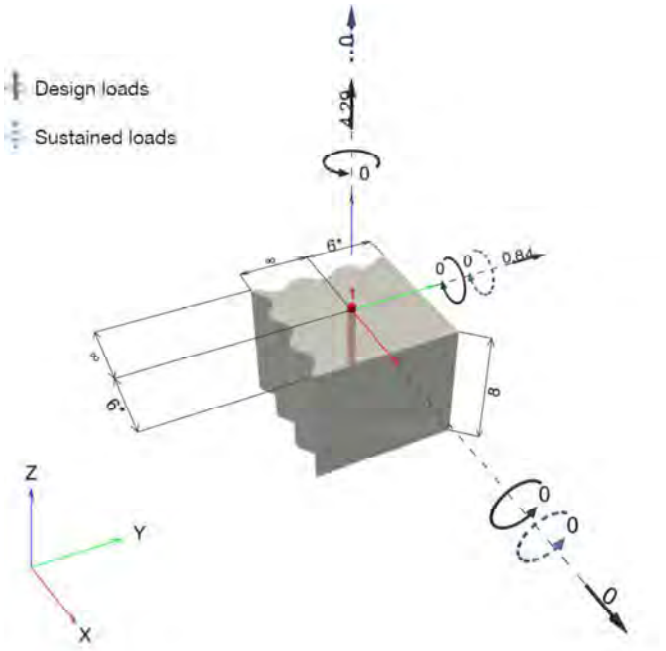
Specifier's comments:

1 Input data



Anchor type and diameter:	**HIT-HY 200 + Rebar A 615 Gr.40 #4**
Item number:	not available (element) / 2022793 HIT-HY 200-R (adhesive)
Effective embedment depth:	$h_{ef,opti}$ = 4.134 in. ($h_{ef,limit}$ = 6.750 in.)
Material:	ASTM A 615 GR.40
Evaluation Service Report:	ESR-3187
Issued I Valid:	3/1/2020 | 3/1/2022
Proof:	Design Method ACI 318-14 / Chem
Stand-off installation:	
Profile:	
Base material:	cracked concrete, 3000, f_c' = 3,000 psi; h = 8.000 in., Temp. short/long: 32/32 °F
Installation:	**hammer drilled hole, Installation condition: Dry**
Reinforcement:	tension: condition B, shear: condition B; no supplemental splitting reinforcement present edge reinforcement: none or < No. 4 bar

Geometry [in.] & Loading [kip, ft.kip]



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Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	City Hall	Date:	5/7/2020
Fastening point:			

1.1 Design results

Case	Description	Forces [kip] / Moments [ft.kip]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = 4.290; V_x = 0.000; V_y = 0.840; M_x = 0.00000; M_y = 0.00000; M_z = 0.00000; N_{sus} = 0.000; $M_{x,sus}$ = 0.00000; $M_{y,sus}$ = 0.00000;	no	100

2 Load case/Resulting anchor forces

Anchor reactions [kip]
Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	4.290	0.840	0.000	0.840

max. concrete compressive strain: - [‰]
max. concrete compressive stress: - [psi]
resulting tension force in (x/y)=(0.000/0.000): 0.000 [kip]
resulting compression force in (x/y)=(0.000/0.000): 0.000 [kip]

3 Tension load

	Load N_{ua} [kip]	Capacity ϕN_n [kip]	Utilization $\beta_N = N_{ua}/\phi N_n$	Status
Steel Strength*	4.290	7.800	56	OK
Bond Strength**	4.290	4.636	93	OK
Sustained Tension Load Bond Strength*	N/A	N/A	N/A	N/A
Concrete Breakout Failure**	4.290	4.874	89	OK

* highest loaded anchor **anchor group (anchors in tension)

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Hall	Date:	5/7/2020
Fastening point:			

3.1 Steel Strength

N_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi N_{sa} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,N}$ [in.^{2}]	f_{uta} [psi]
0.20	60,000

Calculations

N_{sa} [kip]
12.000

Results

N_{sa} [kip]	ϕ_{steel}	ϕN_{sa} [kip]	N_{ua} [kip]
12.000	0.650	7.800	4.290

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Hall	Date:	5/7/2020
Fastening point:			

3.2 Bond Strength

$N_a = \left(\frac{A_{Na}}{A_{Na0}}\right) \psi_{ed,Na} \psi_{cp,Na} N_{ba}$ — ACI 318-14 Eq. (17.4.5.1a)

$\phi N_a \geq N_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Na} see ACI 318-14, Section 17.4.5.1, Fig. R 17.4.5.1(b)

$A_{Na0} = (2 c_{Na})^2$ — ACI 318-14 Eq. (17.4.5.1c)

$c_{Na} = 10 d_a \sqrt{\frac{\tau_{uncr}}{1100}}$ — ACI 318-14 Eq. (17.4.5.1d)

$\psi_{ed,Na} = 0.7 + 0.3 \left(\frac{c_{a,min}}{c_{Na}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.5.4b)

$\psi_{cp,Na} = \text{MAX}\left(\frac{c_{a,min}}{c_{ac}}, \frac{c_{Na}}{c_{ac}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.5.5b)

$N_{ba} = \lambda_a \cdot \tau_{k,c} \cdot \pi \cdot d_a \cdot h_{ef}$ — ACI 318-14 Eq. (17.4.5.2)

Variables

$\tau_{k,c,uncr}$ [psi]	d_a [in.]	h_{ef} [in.]	$c_{a,min}$ [in.]	$\alpha_{overhead}$	$\tau_{k,c}$ [psi]
1,589	0.500	4.134	6.000	1.000	1,100

c_{ac} [in.]	λ_a
8.162	1.000

Calculations

c_{Na} [in.]	A_{Na} [in.^{2}]	A_{Na0} [in.^{2}]	$\psi_{ed,Na}$
5.983	143.17	143.17	1.000

$\psi_{cp,Na}$	N_{ba} [kip]
1.000	7.132

Results

N_a [kip]	ϕ_{bond}	ϕN_a [kip]	N_{ua} [kip]
7.132	0.650	4.636	4.290

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Hall	Date:	5/7/2020
Fastening point:			

3.3 Concrete Breakout Failure

$N_{cb} = \left(\frac{A_{Nc}}{A_{Nc0}}\right) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b$ — ACI 318-14 Eq. (17.4.2.1a)

$\phi N_{cb} \geq N_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$A_{Nc0} = 9 h_{ef}^2$ — ACI 318-14 Eq. (17.4.2.1c)

$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5h_{ef}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.2.5b)

$\psi_{cp,N} = MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.2.7b)

$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5}$ — ACI 318-14 Eq. (17.4.2.2a)

Variables

h_{ef} [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$	c_{ac} [in.]	k_c	λ_a	f'_c [psi]
4.134	6.000	1.000	8.162	17	1.000	3,000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
148.64	153.36	0.991	1.000	7.809

Results

N_{cb} [kip]	$\phi_{concrete}$	ϕN_{cb} [kip]	N_{ua} [kip]
7.499	0.650	4.874	4.290

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Hall	Date:	5/7/2020
Fastening point:			

4 Shear load

	Load V_{ua} [kip]	Capacity ϕV_n [kip]	Utilization $\beta_V = V_{ua}/\phi V_n$	Status
Steel Strength*	0.840	4.320	20	OK
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength (Bond Strength controls)**	0.840	9.984	9	OK
Concrete edge failure in direction y+**	0.840	2.989	29	OK

* highest loaded anchor **anchor group (relevant anchors)

4.1 Steel Strength

V_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi V_{steel} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,V}$ [in.^{2}]	f_{uta} [psi]
0.20	60,000

Calculations

V_{sa} [kip]
7.200

Results

V_{sa} [kip]	ϕ_{steel}	ϕV_{sa} [kip]	V_{ua} [kip]
7.200	0.600	4.320	0.840

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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4.2 Pryout Strength (Bond Strength controls)

$V_{cp} = k_{cp}\left[\left(\frac{A_{Na}}{A_{Na0}}\right) \psi_{ed,Na} \psi_{cp,Na} N_{ba}\right]$ ACI 318-14 Eq. (17.5.3.1a)

$\phi V_{cp} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

A_{Na} see ACI 318-14, Section 17.4.5.1, Fig. R 17.4.5.1(b)

$A_{Na0} = (2 c_{Na})^2$ ACI 318-14 Eq. (17.4.5.1c)

$c_{Na} = 10 d_a \sqrt{\frac{\tau_{uncr}}{1100}}$ ACI 318-14 Eq. (17.4.5.1d)

$\psi_{ed,Na} = 0.7 + 0.3 \left(\frac{c_{a,min}}{c_{Na}}\right) \leq 1.0$ ACI 318-14 Eq. (17.4.5.4b)

$\psi_{cp,Na} = \text{MAX}\left(\frac{c_{a,min}}{c_{ac}}, \frac{c_{Na}}{c_{ac}}\right) \leq 1.0$ ACI 318-14 Eq. (17.4.5.5b)

$N_{ba} = \lambda_a \cdot \tau_{k,c} \cdot \pi \cdot d_a \cdot h_{ef}$ ACI 318-14 Eq. (17.4.5.2)

Variables

k_{cp}	$\alpha_{overhead}$	$\tau_{k,c,uncr}$ [psi]	d_a [in.]	h_{ef} [in.]	$c_{a,min}$ [in.]	$\tau_{k,c}$ [psi]
2	1.000	1,589	0.500	4.134	6.000	1,100

c_{ac} [in.]	λ_a
8.162	1.000

Calculations

c_{Na} [in.]	A_{Na} [in.^{2}]	A_{Na0} [in.^{2}]	$\psi_{ed,Na}$
5.983	143.17	143.17	1.000

$\psi_{cp,Na}$	N_{ba} [kip]
1.000	7.132

Results

V_{cp} [kip]	$\phi_{concrete}$	ϕV_{cp} [kip]	V_{ua} [kip]
14.264	0.700	9.984	0.840

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4.3 Concrete edge failure in direction y+

$V_{cb} = \left(\frac{A_{Vc}}{A_{Vc0}}\right) \Psi_{ed,V} \Psi_{c,V} \Psi_{h,V} \Psi_{parallel,V} V_b$ — ACI 318-14 Eq. (17.5.2.1a)

$\phi V_{cb} \geq V_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Vc} see ACI 318-14, Section 17.5.2.1, Fig. R 17.5.2.1(b)

$A_{Vc0} = 4.5 c_{a1}^2$ — ACI 318-14 Eq. (17.5.2.1c)

$\Psi_{ed,V} = 0.7 + 0.3\left(\frac{c_{a2}}{1.5c_{a1}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.5.2.6b)

$\Psi_{h,V} = \sqrt{\frac{1.5c_{a1}}{h_a}} \geq 1.0$ — ACI 318-14 Eq. (17.5.2.8)

$V_b = \left(7\left(\frac{l_e}{d_a}\right)^{0.2}\sqrt{d_a}\right) \lambda_a \sqrt{f_c'} c_{a1}^{1.5}$ — ACI 318-14 Eq. (17.5.2.2a)

Variables

c_{a1} [in.]	c_{a2} [in.]	$\Psi_{c,V}$	h_a [in.]	l_e [in.]
6.000	6.000	1.000	8.000	4.000

λ_a	d_a [in.]	f_c' [psi]	$\Psi_{parallel,V}$
1.000	0.500	3,000	1.000

Calculations

A_{Vc} [in.^{2}]	A_{Vc0} [in.^{2}]	$\Psi_{ed,V}$	$\Psi_{h,V}$	V_b [kip]
120.00	162.00	0.900	1.061	6.039

Results

V_{cb} [kip]	$\phi_{concrete}$	ϕV_{cb} [kip]	V_{ua} [kip]
4.270	0.700	2.989	0.840

5 Combined tension and shear loads

β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status
0.925	0.281	5/3	100	OK

$\beta_{NV} = \beta_N^{\zeta} + \beta_V^{\zeta} <= 1$

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Fastening point:			

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (AS 5216:2018, ETAG 001/Annex C, EOTA TR029 etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered - the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with CBFEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- Design Strengths of adhesive anchor systems are influenced by the cleaning method. Refer to the INSTRUCTIONS FOR USE given in the Evaluation Service Report for cleaning and installation instructions.
- For additional information about ACI 318 strength design provisions, please go to https://submittals.us.hilti.com/PROFISAnchorDesignGuide/
- Installation of Hilti adhesive anchor systems shall be performed by personnel trained to install Hilti adhesive anchors. Reference ACI 318-14, Section 17.8.1.

Fastening meets the design criteria!

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Hall	Date:	5/7/2020
Fastening point:			

7 Installation data

Profile: -

Hole diameter in the fixture: -

Plate thickness (input): -

Drilling method: Hammer drilled
Cleaning: Compressed air cleaning of the drilled hole according to instructions for use is required

#4 Rebar with Hilti HIT-HY 200 Safe Set System

Anchor type and diameter: HIT-HY 200 + Rebar A 615 Gr.40 #4
Item number: not available (element) / 2022793 HIT-HY 200-R (adhesive)

Installation torque: -

Hole diameter in the base material: 0.625 in.

Hole depth in the base material: 4.134 in.

Minimum thickness of the base material: 5.384 in.

7.1 Recommended accessories

Drilling	Cleaning	Setting
• Suitable Rotary Hammer • Properly sized drill bit	• Compressed air with required accessories to blow from the bottom of the hole • Proper diameter wire brush	• Dispenser including cassette and mixer • For deep installations, a piston plug is necessary • Torque wrench

Coordinates Anchor in.

Anchor	x	y	c_{-x}	c_{+x}	c_{-y}	c_{+y}
1	0.000	0.000	-	6.000	-	6.000

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Fastening point:			

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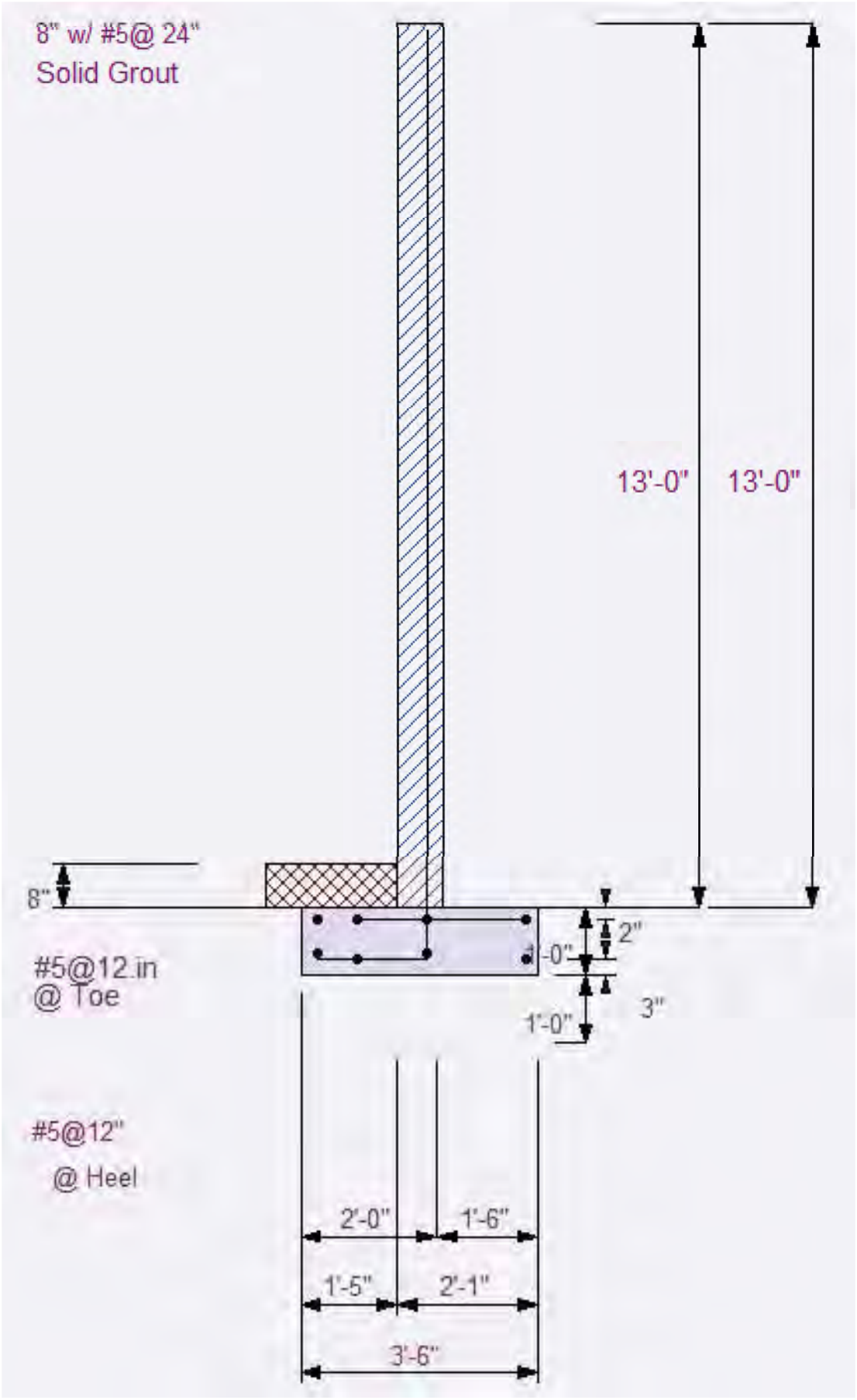
4. SCREEN WALL DESIGN


8" w/ #5@ 24"
Solid Grout
13'-0"
13'-0"
8"
2"
#5@12 in
@ Toe
1'-0"
3"
#5@12"
@ Heel
2'-0"
1'-6"
1'-5"
2'-1"
3'-6"

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Cantilevered Retaining Wall

Code: IBC 2018,ACI 318-14,TMS 402-16

Criteria



Retained Height	=	0.00 ft
Wall height above soil	=	13.00 ft
Slope Behind Wall	=	0.00
Height of Soil over Toe	=	8.00 in
Water height over heel	=	0.0 ft

Load Factors

Building Code	IBC 2018,ACI
Dead Load	1.200
Live Load	1.600
Earth, H	1.600
Wind, W	1.000
Seismic, E	1.000

Soil Data and Lateral Earth Pressure

Allow Soil Bearing	=	1,500.0 psf	Soil Density, Heel	=	100.00 pcf
Equivalent Fluid Pressure Method			Soil Density, Toe	=	0.00 pcf
Active Heel Pressure	=	45.0 psf/ft	Footing||Soil Friction	=	0.250
	=		Soil height to ignore for passive pressure	=	12.00 in
Passive Pressure	=	100.0 psf/ft			

Surcharge Loads

Surcharge Over Heel	=	0.0 psf	Surcharge Over Toe	=	0.0
Used To Resist Sliding & Overturning			Used for Sliding & Overturning		

Axial Load Applied to Stem

Axial Dead Load	=	0.0 lbs	Axial Load Eccentricity	=	0.0 in
Axial Live Load	=	0.0 lbs			

Lateral Load Applied to Stem

Lateral Load	=	0.0 #/ft
...Height to Top	=	0.00 ft
...Height to Bottom	=	0.00 ft
Load Type	=	Wind (W) (Service Level)

Wind on Exposed Stem

Wind on Exposed Stem (Service Level)	=	14.4 psf

Adjacent Footing Load

Adjacent Footing Load	=	0.0 lbs	Footing Type		Line Load
Footing Width	=	0.00 ft	Base Above/Below Soil		
Eccentricity	=	0.00 in	at Back of Wall	=	0.0 ft
Wall to Ftg CL Dist	=	0.00 ft	Poisson's Ratio	=	0.300

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Wall Design Summary

Stability Ratios

Overturning	=	2.01 OK
Sliding	=	3.39 OK

Soil Bearing

Total Bearing Load	=	1,617 lbs
...resultant ecc.	=	10.48 in
Soil Pressure @ Toe	=	1,229 psf OK
Soil Pressure @ Heel	=	0 psf OK
Allowable	=	1,500 psf
Soil Pressure Less Than Allowable		
ACI Factored @ Toe	=	1,720 psf
ACI Factored @ Heel	=	0 psf
Footing Shear @ Toe	=	11.5 psi OK
Footing Shear @ Heel	=	1.3 psi OK
Allowable	=	82.2 psi

Sliding

Resisting Forces

Vertical Forces	Force	
Soil Over Heel (above water table, if any)	0.0	lbs
Soil Over Heel (below water table, if any)	0.0	
Water Over Heel	0.0	
Buoyant Force	0.0	
Sloped Soil Over Heel	0.0	
Surcharge Over Heel	0.0	
Adjacent Footing Load	0.0	
Axial Dead Load on Stem	0.0	
Axial Live Load on Stem *	Omit	
Soil Over Toe	0.0	
Surcharge Over Toe	0.0	
Stem Weight(s)	1,092.0	
Earth @ Stem Transitions	0.0	
Footing Weight	525.2	
Key Weight	0.0	
Vert. Component **	0.0	
Total Vertical Loads	1,617.2	lbs

Sliding Forces

Lateral Forces	Force	
Heel Active Pressure (above water table, if any)	22.5	lbs
Heel Active Pressure (below water table, if any)	0.0	
Hydrostatic Force	0.0	
* Heel Active Pressure	22.5	
Surcharge over Heel	0.0	
Adjacent Footing	0.0	
Surcharge Over Toe	0.0	
Load @ Stem Above Soil	187.2	
Added Lateral Load	0.0	
Seismic Load	0.0	
Seismic-Self-weight	0.0	
Lateral on Key	0.0	
Totals =	209.7	lbs

*Includes water table effect

* Axial live load NOT included in total displayed , or used for overturning or sliding resistance, but is included for soil pressure calculations.

Sliding Calcs

Lateral Sliding Force	=		209.7 lbs	
less 100% Passive Force	=	-	305.6 lbs	
less 100% Friction Force	=	-	404.3 lbs	
Added Force Req'd	=		0.0 lbs	OK
....for 1.5 Stability	=		0.0 lbs	OK

Vertical component of active lateral soil pressure IS NOT considered in the calculation of soil bearing pressures.

Overturning

Resisting Moments

Resisting Moments	Force		Distance		Moment
Soil Over Heel (above water table, if any)	0.0	lbs	2.79	ft	0.0ft-#
Soil Over Heel (below water table, if any)	0.0				
Water Table	0.0				
Soil Over Heel	0.0		2.79		0.0
Sloped Soil Over Heel	0.0				
Surcharge Over Heel	0.0				
Adjacent Footing Load	0.0				
Axial Dead Load on Stem	0.0				
Axial Live Load on Stem *	0.0				
Soil Over Toe	0.0		0.71		
Surcharge Over Toe	0.0				
Stem Weight(s)	1,092.0		1.75		1,911.4
Earth @ Stem Transitions	0.0				
Footing Weight	525.2		1.75		919.3
Key Weight	0.0		2.00		
Vert. Component	0.0				
Total Vertical Loads	1,617.2	lbs			
Resisting Moment					**2,830.6** ft-#
Eccentricity					**10.5** in

* Axial live load NOT included in total displayed, or used for overturning or sliding resistance, but is included for soil pressure calculations.

Overturning

Overturning Moments

Overturning Moments	Force		Distance		Moment
Heel Active Pressure (above water table, if any)	22.5	lbs	0.33	ft	7.5 ft-#
Heel Active Pressure (below water table, if any)	0.0				
Hydrostatic Force	0.0				
Buoyant Force	0.0				
Surcharge over Heel	0.0				
Adjacent Footing	0.0				
Surcharge Over Toe	0.0				
Load @ Stem Above Soil	187.2		7.50		1,404.0
Added Lateral Load	0.0				
Seismic Load	0.0				
Seismic-Self-weight	0.0				
Totals =	209.7	lbs			
Overturning Moment					1,411.5 ft-#

Stem Design Summary

			Bottom
			Stem OK
Design Height Above Ftg	ft	=	0.00
Wall Material Above "Ht"		=	Masonry
Design Method		=	LRFD
Thickness		=	8.00
Rebar Size		=	# 5
Rebar Spacing		=	24.00
Rebar Placed at		=	Edge
Design Data			
fb/FB + fa/Fa		=	**0.356**
Total Force @ Section			
Service Level	lbs	=	
Strength Level	lbs	=	187.2
Moment....Actual			
Service Level	ft-#	=	
Strength Level	ft-#	=	1,216.8
Moment.....Allowable		=	3,411.6
Shear.....Actual			
Service Level	psi	=	
Strength Level	psi	=	2.0
Shear.....Allowable	psi	=	69.7
Anet	in2	=	91.50
Rebar Depth 'd'	in	=	5.25
Masonry Data			
f'm	psi	=	1,500
Fy	psi	=	60,000
Solid Grouting		=	Yes
Modular Ratio 'n'		=	21.48
Wall Weight	psf	=	84.0
Equiv. Solid Thick.	in	=	7.60
Masonry Block Type		=	Normal Weight
Masonry Design Method		=	LRFD
Concrete Data			
f'c	psi	=	
Fy	psi	=	

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Cantilevered Retaining Wall

Code: IBC 2018,ACI 318-14,TMS 402-16

Footing Data

Toe Width	=	1.42 ft	f'c	=	3,000	psi
Heel Width	=	2.08	Fy	=	60,000	psi
Total Footing Width	=	3.50 ft	Footing Concrete Density	=	150.00	pcf
Footing Thickness	=	12.00 in	Min. As %	=	0.0018	
Key Width	=	0.00 in	Rebar Cover @ Top	=	2.00	in
Key Depth	=	12.00 in	@ Bottom	=	3.00	in
Key Distance from Toe	=	2.00 ft				

Footing Design Results

		Toe	Heel	
Factored Pressure	=	1,720	0	psf
Mu' : Upward	=	17,003	216	ft-#
Mu' : Downward	=	3,869	2,680	ft-#
Mu: Design	=	327	-426	ft-#
Actual 1-Way Shear	=	11.46	1.31	psi
Allow 1-Way Shear	=	43.82	43.82	psi

Toe Reinforcing	=	# 5 @ 12.00 in
Heel Reinforcing	=	# 5 @ 12.00 in
Key Reinforcing	=	None Spec'd

Other Acceptable Sizes & Spacings

Toe: Not req'd: Mu < phi*5*lambda*sqrt(f'c)*Sm

Heel: Not req'd: Mu < phi*5*lambda*sqrt(f'c)*Sm

Key: No key defined

Min footing T&S reinf Area	0.91	in2
Min footing T&S reinf Area per fc	0.26	in2 /ft

If one layer of horizontal bars:	If two layers of horizontal bars:
#4@ 9.26 in	#4@ 18.52 in
#5@ 14.35 in	#5@ 28.70 in
#6@ 20.37 in	#6@ 40.74 in

Footing Torsion, Tu	=	0.00 ft-lbs
Footing Allow. Torsion, phi Tu	=	0.00 ft-lbs

If torsion exceeds allowable, provide supplemental design for footing torsion.

Tilt

Horizontal Deflection at Top of Wall due to settlement of soil

(Deflection due to wall bending not considered)

Soil Spring Reaction Modulus	250.0	pci
Horizontal Defl @ Top of Wall (approximate only)	0.127	in

The above calculation is not valid if the heel soil bearing pressure exceeds that of the toe.

because the wall would then tend to rotate into the retained soil.

5. APPENDIX

5.1 WIND LOADS

Hazards by Location

Search Information

Address: 530 Monroe Ave, Buckeye, AZ 85326, USA

Coordinates: 33.3709624, -112.5839678

Elevation: 873 ft

Timestamp: 2020-03-10T16:37:53.323Z

Hazard Type: Wind



ASCE 7-16

MRI 10-Year	70 mph
MRI 25-Year	77 mph
MRI 50-Year	82 mph
MRI 100-Year	87 mph
Risk Category I	95 mph
Risk Category II	101 mph
Risk Category III	108 mph
Risk Category IV	112 mph

ASCE 7-10

MRI 10-Year	76 mph
MRI 25-Year	84 mph
MRI 50-Year	90 mph
MRI 100-Year	96 mph
Risk Category I	105 mph
Risk Category II	115 mph
Risk Category III-IV	120 mph

ASCE 7-05

ASCE 7-05 Wind Speed	90 mph

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area – in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher. NOTE: For queries near wind-borne debris region boundaries, the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne debris region.

Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.

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5.2 SEISMIC LOADS

Hazards by Location

Search Information



Address: 530 Monroe Ave, Buckeye, AZ 85326, USA

Coordinates: 33.3709624, -112.5839678

Elevation: 873 ft

Timestamp: 2020-03-17T14:47:49.703Z

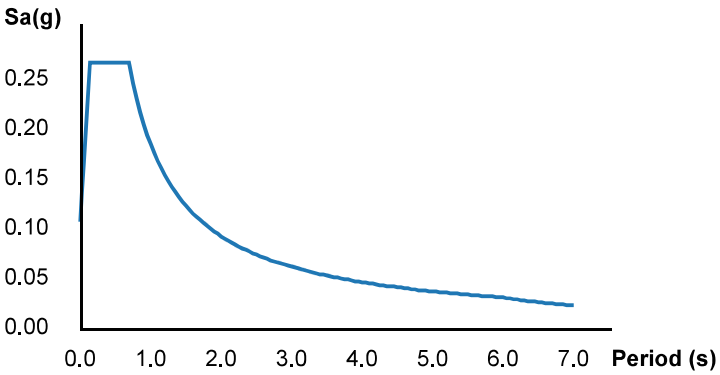
Hazard Type: Seismic

Reference Document: ASCE7-16

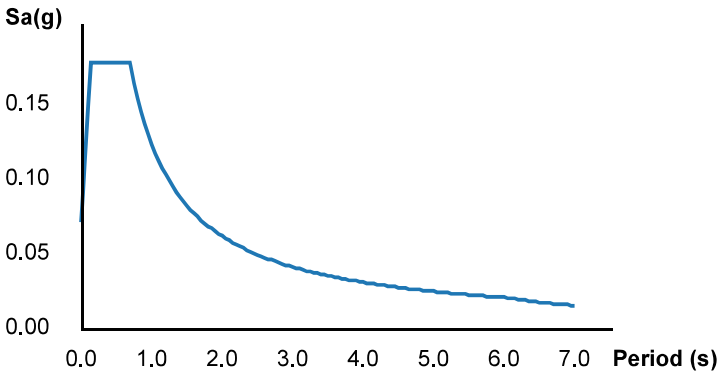
Risk Category: II

Site Class: D

MCER Horizontal Response Spectrum



Design Horizontal Response Spectrum



Basic Parameters

Name	Value	Description
S_S	0.167	MCE_R ground motion (period=0.2s)
S_1	0.077	MCE_R ground motion (period=1.0s)
S_{MS}	0.267	Site-modified spectral acceleration value
S_{M1}	0.185	Site-modified spectral acceleration value
S_{DS}	0.178	Numeric seismic design value at 0.2s SA
S_{D1}	0.123	Numeric seismic design value at 1.0s SA

Additional Information

Name	Value	Description
SDC	B	Seismic design category
F_a	1.6	Site amplification factor at 0.2s
F_v	2.4	Site amplification factor at 1.0s

CR_S	0.937	Coefficient of risk (0.2s)
CR_1	0.944	Coefficient of risk (1.0s)
PGA	0.073	MCE_G peak ground acceleration
F_{PGA}	1.6	Site amplification factor at PGA
PGA_M	0.117	Site modified peak ground acceleration
T_L	6	Long-period transition period (s)
SsRT	0.167	Probabilistic risk-targeted ground motion (0.2s)
SsUH	0.178	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.077	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.082	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGAd	0.5	Factored deterministic acceleration value (PGA)

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are provided by the U.S. Geological Survey Seismic Design Web Services.

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5.3 GENERATOR SPECIFICATIONS

SD300 | 10.3 | 300 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

Standby Power Rating
300 kW, 375 kVA, 60 Hz

Prime Power Rating*
270 kW, 338 kVA, 60 Hz

*Built in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the US or its Territories

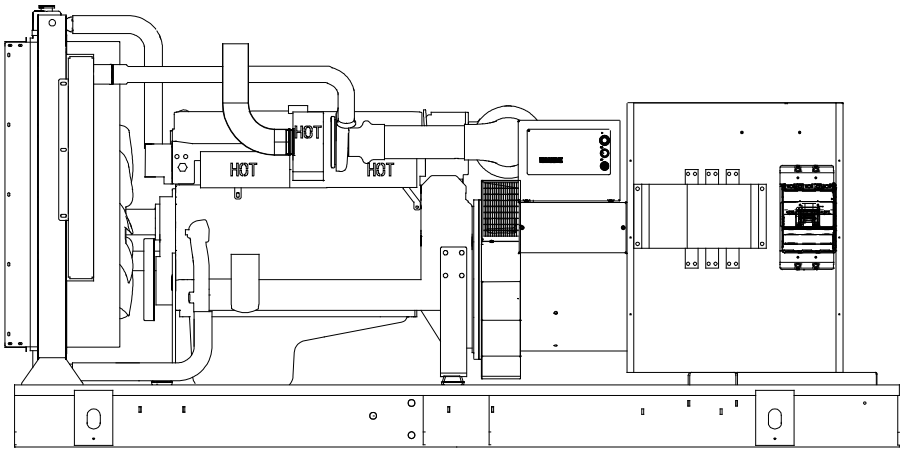


Image used for illustration purposes only

Codes and Standards

Generac products are designed to the following standards:

UL2200, UL508, UL142, UL489

NFPA 37, 70, 99, 110

NEC700, 701, 702, 708

ISO 3046, 7637, 8528, 9001

NEMA ICS10, MG1, 250, ICS6, AB1

ANSI C62.41

IBC 2009, CBC 2010, IBC 2012,
ASCE 7-05, ASCE 7-10,
ICC-ES AC-156 (2012)

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SD300 | 10.3L | 300 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil & Coolant
- Radiator Duct Adapter (Open Set Only)

Fuel System

- Fuel Lockoff Solenoid
- Primary Fuel Filter

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze
- 120 VAC Coolant Heater

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- GENprotect™
- 12 Leads (3-Phase, Non 600V)
- Class H Insulation Material
- Vented Rotor
- 2/3 Pitch
- Skewed Stator
- Auxiliary Voltage Regulator Power Winding
- Permanent Magnet Excitation
- Sealed Bearing
- Automated Manufacturing (Winding, Insertion, Lacing, Varnishing)
- Rotor Dynamically Spin Balanced
- Amortisseur Winding
- Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Only)

ENCLOSURE (if selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- Rhino Coat™ - Textured Polyester Powder Coat Paint

TANKS (if selected)

- UL 142
- Double Wall
- Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- Rhino Coat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

CONTROL SYSTEM



Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- 3 Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total & Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms & Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms & Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

SD300 | 10.3 | 300 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- ○ Oil Make-Up System
- ○ Oil Heater
- ○ Critical Exhaust Silencer

FUEL SYSTEM

- ○ Flexible Fuel Lines
- ○ Primary Fuel Filter

ELECTRICAL SYSTEM

- ○ 10A UL Battery Charger
- ○ Battery Warmer

ALTERNATOR SYSTEM

- ○ Alternator Upsizing
- ○ Anti-Condensation Heater
- ○ Tropical Coating

CIRCUIT BREAKER OPTIONS

- ○ Main Line Circuit Breaker
- ○ 2nd Main Line Circuit Breaker
- ○ Shunt Trip and Auxiliary Contact
- ○ Electronic Trip Breakers

GENERATOR SET

- ○ GenLink® Communications Software (English Only)
- ○ Extended Factory Testing
- ○ IBC Seismic Certification
- ○ 8 Position Load Center
- ○ 2 Year Extended Warranty
- ○ 5 Year Warranty
- ○ 5 Year Extended Warranty
- ○ 7 Year Extended Warranty
- ○ 10 Year Extended Warranty

ENCLOSURE

- ○ Standard Enclosure
- ○ Level 1 Sound Attenuation
- ○ Level 2 Sound Attenuation
- ○ Steel Enclosure
- ○ Aluminum Enclosure
- ○ Up to 200 MPH Wind Load Rating*
- ○ AC/DC Enclosure Lighting Kit
- ○ 12 VDC Enclosure Light Kit
- ○ 120 VAC Enclosure Light Kit

CONTROL SYSTEM

- ○ NFPA 110 Compliant 21-Light Remote Annunciator
- ○ Remote Relay Assembly (8 or 16)
- ○ Oil Temperature Sender with Indication Alarm
- ○ Remote E-Stop (Break Glass-Type, Surface Mount)
- ○ Remote E-Stop (Red Mushroom-Type, Surface Mount)
- ○ Remote E-Stop (Red Mushroom-Type, Flush Mount)
- ○ Remote Communication - Modem
- ○ Remote Communication - Ethernet
- ○ 10A Run Relay
- ○ Ground Fault Indication and Protection Functions

TANKS (SIZE ON LAST PAGE)

- ○ Electric Fuel Level
- ○ Mechanical Fuel Level
- ○ 8” Fill Extension
- ○ 13” Fill Extension
- ○ 19” Fill Extension

ENGINEERED OPTIONS

ENGINE SYSTEM

- ○ Coolant Heater Ball Valves
- ○ Fluid Containment Pan

CONTROL SYSTEM

- ○ Spare Inputs (x4) / Outputs (x4)
- ○ Battery Disconnect Switch

ALTERNATOR SYSTEM

- ○ 3rd Breaker System

GENERATOR SET

- ○ Special Testing

ENCLOSURE

- ○ Motorized Dampers

TANKS

- ○ Overfill Protection Valve
- ○ UL2085 Tank
- ○ ULC S-601 Tank
- ○ Special Fuel Tanks
- ○ Vent Extensions

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition.

*Consult factory for availability

SD300 | 10.3L | 300 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Iveco/FPT
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	6
Type	In-Line
Displacement - L (cu. in)	10.3 (628.54)
Bore - mm (in)	125 (4.92)
Stroke - mm (in)	140 (5.51)
Compression Ratio	16.5:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head	4-Valve
Piston Type	Aluminum
Crankshaft Type	Dropped Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow
Crankcase Capacity - L (qts)	30 (31.68)

Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed (rpm)	2250
Fan Diameter - mm (in)	762 (30.0)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Inject Pump Make	Electronic
Fuel Pump Type	Engine Driven Gear
Injector Type	Common Rail
Engine Type	Direct Injection
Fuel Supply Line - mm (in.)	12.7 (0.5) NPT
Fuel Return Line - mm (in.)	12.7 (0.5) NPT

Engine Electrical System

System Voltage	24 VDC
Battery Charger Alternator	Std
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	520 mm Generac
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Permanent Magnet Excitation
Bearings	Single Sealed Cartridge
Coupling	Direct, Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SD300 | 10.3 | 300 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

OPERATING DATA

POWER RATINGS

	Standby		Prime	
Three-Phase 120/208 VAC @0.8pf	300 kW	Amps: 1041	270 kW	Amps: 937
Three-Phase 120/240 VAC @0.8pf	300 kW	Amps: 902	270 kW	Amps: 812
Three-Phase 277/480 VAC @0.8pf	300 kW	Amps: 451	270 kW	Amps: 406
Three-Phase 346/600 VAC @0.8pf	300 kW	Amps: 361	270 kW	Amps: 325

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

		480 VAC					
Alternator	kW	10%	15%	20%	25%	30%	35%
Standard	350	383	575	767	958	1150	1342
Upsize 1	400	387	581	775	968	1162	1356
Upsize 2	500	457	686	914	1143	1371	1600

		208/240 VAC					
Alternator	kW	10%	15%	20%	25%	30%	35%
Standard	350	280	410	535	640	770	900
Upsize 1	400	210	350	500	680	875	1100
Upsize 2	450	345	570	835	1100	1460	1710

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m)
3 (1)

Total Fuel Pump Flow (Combustion + Return) - gal/hr (l/hr)
31 (117)

Diesel - gal/hr (l/hr)

Percent Load	Standby	Prime
25%	7.6 (28.7)	6.9 (26.1)
50%	12.6 (47.7)	11.6 (43.9)
75%	17.4 (65.9)	15.8 (59.8)
100%	22.1 (83.7)	19.9 (75.3)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby	Prime
Coolant Flow per Minute	gal/min (l/min)	95 (360)	95 (360)
Coolant System Capacity	gal (l)	16.6 (63)	16.6 (63)
Heat Rejection to Coolant	BTU/hr	814,783	733,673
Inlet Air	cfm (m^3/hr)	14,505 (411)	14,505 (411)
Maximum Radiator Backpressure	in H_2O	0.5	0.5

COMBUSTION AIR REQUIREMENTS

	Standby	Prime
Flow at Rated Power cfm (m^3/min)	850 (24.07)	765 (21.67)

ENGINE

		Standby	Prime
Rated Engine Speed	rpm	1800	1800
Horsepower at Rated kW**	hp	480	432
Piston Speed	ft/min	1654	1654
BMEP	psi	336	302

EXHAUST

		Standby	Prime
Exhaust Flow (Rated Output)	cfm (m^3/min)	2240 (63.4)	2016 (57.1)
Max. Backpressure (Post Silencer)	in Hg (Kpa)	1.5 (5.1)	1.5 (5.1)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	1020 (549)	918 (492)
Exhaust Outlet Size (Open Set)	mm (in)	101.6 (4)	101.6 (4)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

SPEC SHEET

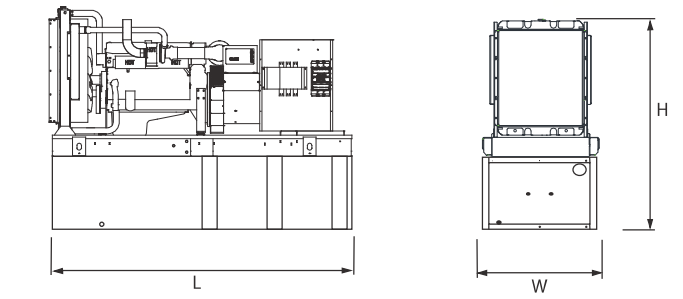
SD300 | 10.3L | 300 kW

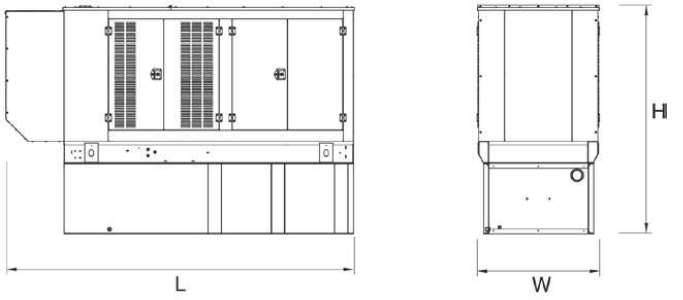
INDUSTRIAL DIESEL GENERATOR SET

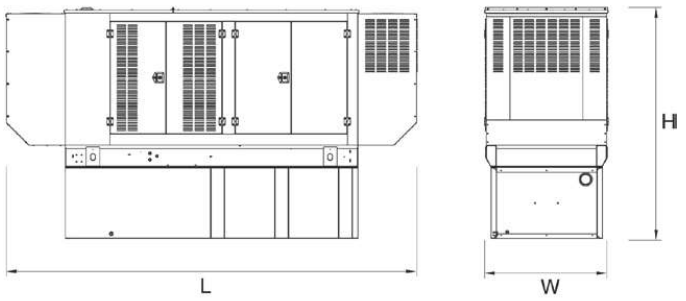
EPA Certified Stationary Emergency

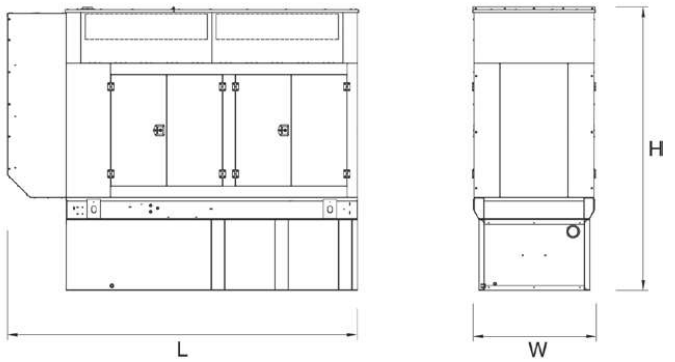
GENERAC | INDUSTRIAL POWER

DIMENSIONS AND WEIGHTS*









OPEN SET (Includes Exhaust Flex)

Run Time Hours	Usable Capacity Gal (L)	L x W x H in (mm)	Weight lbs (kg)
No Tank	-	136 (3454) x 58 (1473) x 68 (1727)	5816 (2638)
8	183 (693)	136 (3454) x 58 (1473) x 81 (2057)	6764 (3068)
20	438 (1659)	136 (3454) x 58 (1473) x 93 (2362)	7076 (3210)
31	693 (2624)	136 (3454) x 58 (1473) x 105 (2667)	7379 (3347)
43	946 (3518)	208 (5283) x 58 (1473) x 108 (2743)	8841 (4010)
60	1325 (5015)	278 (7061) x 58 (1473) x 108 (2743)	9856 (4471)

STANDARD ENCLOSURE

Run Time Hours	Usable Capacity Gal (L)	L x W x H in (mm)	Weight lbs (kg)	
			Steel	Aluminum
No Tank	-	175 (4445) x 58 (1473) x 78 (1981)		
8	183 (693)	175 (4445) x 58 (1473) x 91 (2311)		
20	438 (1659)	175 (4445) x 58 (1473) x 103 (2616)	1295 (588)	501 (227)
31	693 (2624)	175 (4445) x 58 (1473) x 115 (2921)		
43	946 (3518)	208 (5283) x 58 (1473) x 118 (2997)		
60	1325 (5015)	278 (7061) x 58 (1473) x 118 (2997)		

LEVEL 1 ACOUSTIC ENCLOSURE

Run Time Hours	Usable Capacity Gal (L)	L x W x H in (mm)	Weight lbs (kg)	
			Steel	Aluminum
No Tank	-	200 (5080) x 58 (1473) x 78 (1981)		
8	183 (693)	200 (5080) x 58 (1473) x 91 (2311)		
20	438 (1659)	200 (5080) x 58 (1473) x 103 (2616)	1470 (667)	935 (425)
31	693 (2624)	200 (5080) x 58 (1473) x 115 (2921)		
43	946 (3518)	234 (5944) x 58 (1473) x 118 (2997)		
60	1325 (5015)	304 (7722) x 58 (1473) x 118 (2997)		

LEVEL 2 ACOUSTIC ENCLOSURE

Run Time Hours	Usable Capacity Gal (L)	L x W x H in (mm)	Weight lbs (kg)	
			Steel	Aluminum
No Tank	-	180.6 (4588) x 57.6 (1463) x 107.2 (2724)		
8	183 (693)	180.6 (4588) x 57.6 (1463) x 120 (3048)		
20	438 (1659)	180.6 (4588) x 57.6 (1463) x 132 (3353)	2515 (1141)	1131 (514)
31	693 (2624)	180.6 (4588) x 57.6 (1463) x 144 (3658)		
43	946 (3518)	208 (5283) x 57.6 (1463) x 148(3759)		
60	1325 (5015)	278 (7061) x 57.6 (1463) x 146 (3708)		

(8841 lb set and tank) + (Diesel weight 7 lbs/gallon x 946 gallons) + (2515 lbs enclosure weight) = **17979 LBs total**

* All measurements are approximate and for estimation purposes only.

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

Generac Power Systems, Inc. | P.O. Box 8 | Waukesha, WI 53189
P: (262) 544-4811 | F: (262) 544-4851

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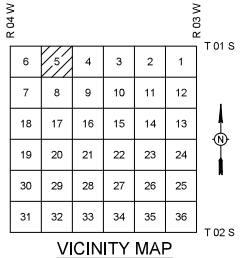
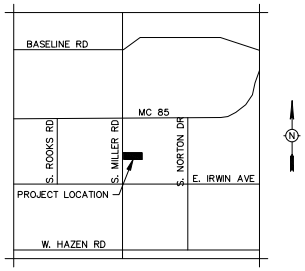
COMMUNITY CENTER STANDBY GENERATOR

201 E. CENTRE AVE. BUCKEYE, ARIZONA 85326

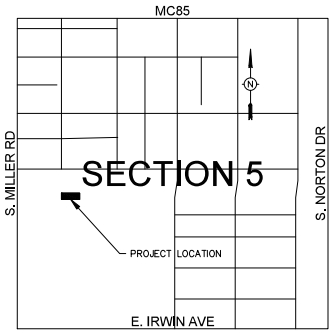
A PORTION OF THE SWSW OF SECTION 5, TOWNSHIP T01S, RANGE R03W OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



OVERALL DEVELOPMENT
NOT TO SCALE

FEMA FLOOD ZONE INFORMATION

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEV. (IN AO ZONE, USE DEPTH)
ALL FLOOD ZONES ARE SHOWN IN THIS PLAN SET.					

GENERAL PERMITTING NOTES

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF BUCKEYE DESIGN STANDARDS. IF THERE IS A CONFLICT, THE CITY OF BUCKEYE STANDARDS WILL GOVERN.
2. THE APPROVAL OF THE PLANS IS VALID FOR ONE (1) YEAR FROM THE DATE OF THE CITY ENGINEER'S SIGNATURE. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN ONE (1) YEAR, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
3. A CITY OF BUCKEYE INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF BUCKEYE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY THE CITY 24 HOURS PRIOR TO THE INSPECTION BY CALLING (623) 349-6248.
4. CITY PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. A CITY PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER ALL FEES HAVE BEEN PAID AND THE PERMIT HAS AN APPROVED MARICOPA COUNTY ENVIRONMENTAL SERVICES DUST PERMIT AND AN APPROVED STORM WATER POLLUTION PREVENTION PLAN ATTACHED. THE SWPPP SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. COPIES OF ALL PERMITS AND MOST RECENT APPROVED PLANS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS AND PLANS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL PROPER PERMIT DOCUMENTATION AND/OR PLANS ARE OBTAINED. ALL OF THESE REQUIREMENTS APPLY TO ONSITE GRADING AND IMPROVEMENT PLANS.

ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
MICHAEL COLOMBO
7740 N. 16TH STREET
SUITE 300 PHOENIX, AZ 85020
602-944-5500
MICHAEL.COLOMBO@KIMLEY-HORN.COM

SHEET INDEX

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	ELECTRICAL GENERAL NOTES
3	ELECTRICAL SITE PLAN
4	ELECTRICAL ONE LINE DIAGRAM
5	ELECTRICAL DETAILS
6	STRUCTURAL NOTES AND PLAN
7	STRUCTURAL DETAILS
8	MECHANICAL NOTES
9	MECHANICAL SITE PLAN

APPROVAL

DISCLAIMER:

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS AND OMISSIONS.

BY: _____
CITY OF BUCKEYE ENGINEER DATE

BY: _____
FLOOD CONTROL DISTRICT MARICOPA COUNTY DATE

BY: _____
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION DATE

BY: _____
MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT DATE

BY: _____
PRIVATE WATER DATE

BY: _____
PRIVATE SEWER DATE

BY: _____
ROOSEVELT IRRIGATION DISTRICT (RID) DATE

BY: _____
BUCKEYE WATER CONSERVATION & DRAINAGE DISTRICT DATE

(OTHER SIGNATURE LINES AS REQUIRED)

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "AS - BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

_____
ARIZONA REGISTERED LAND SURVEYOR DATE

_____
ARIZONA REGISTRATION NUMBER

_____
TELEPHONE NUMBER

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

MANAGING ENGINEERING / SURVEYOR
PROJECT COORDINATOR
DESIGN LAYOUT: EG | DRAFTED: JN | CHECKED: MAC
FIELD SURVEY | DRAFTED | CHECKED
DRAWING SCALES

PLAN TYPE: ELECTRICAL PLANS

ENGINEER INFORMATION: Kimley»Horn

PROJECT: COMMUNITY CENTER STANDBY GENERATOR

COB PROJECT PLAN STICKER

REVISIONS:

1
2
3

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

SUBMITTAL: FINAL

AS-BUILT SEAL

DESIGN SEAL

Registered Professional Engineer
CERTIFICATE NO.
49368
Michael
Colombo
ARIZONA, U.S.A.
Expires 12/31/21

ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	1 of 9

COB PLAN TRACKING #

COB PERMIT #

CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES

1. CITY OF BUCKEYE BUILDING DEPARTMENT SHALL; HE NOTIFIED 24 HOURS IN ADVANCE OF ANY ON-SITE OR OFF SITE CONSTRUCTION. PHONE 623-349-6248 FOR THE HOTLINE. ALL OTHERS FAX THE INSPECTION REQUEST FORM TO 623-349-6221, OR USE THE WEB BASED PERMIT PORTHOLE ACCESS TO SCHEDULE AN INSPECTION (WWW_BUCKEYEAZ.GOV).
2. ALL WORK AND MATERIALS MUST CONFORM WITH THESE SPECIFICATIONS, THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) AND AS AMENDED BY THE CITY OF BUCKEYE (COB).
3. A PERMIT IS REQUIRED FROM THE COB FOR ALL CONSTRUCTION WITHIN THE RIGHTS-OF-WAY (ROW).
4. THE CONTRACTOR WILL EXPOSE ALL EXISTING UTILITY LINES BEING TIED IN TO VERIFY THEIR LOCATION.
5. THE CONTRACTOR WILL LOCATE, OR HAVE LOCATED, ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINE, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO CALL BLUE STAKE PRIOR TO STARTING ANY CONSTRUCTION. NO WORK SHALL BEGIN UNTIL BLUE STAKE IS COMPLETED. BLUE STAKE TELEPHONE NUMBER 602-263-1 100 OR 1-800-STAKE-IT.
7. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO STARTING ANY WORK OR NEW PHASE OF WORK. THE CONTRACTOR, KEY SUB-CONTRACTORS, COB INSPECTOR AND REPRESENTATIVE OF THE CITY ENGINEER SHALL ATTEND THIS MEETING.
8. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COB AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. DISPOSAL OF EXCESS MATERIAL WITHOUT A PERMIT WITHIN THE COB LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL OR STOCKPILING OF MATERIALS WITHIN A RESIDENTIAL AREA. STOCKPILING OF EXCAVATED MATERIAL SHALL NOT EXCEED A HEIGHT OF 6 FEET ABOVE THE NATURAL GROUND ELEVATION. THE SLOPES ON ALL SIDES OF THE STOCKPILED EXCAVATED MATERIAL SHALL NOT EXCEED A 4: 1 RATIO OF LENGTH TO HEIGHT.
10. EXCAVATION CONTRACTORS MUST IDENTIFY LOCATION FOR DISPOSING OF EXCESS EXCAVATION MATERIAL ALONG WITH A LETTER FROM THE LAND OWNER, GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ANY CONSTRUCTION.
11. TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF PHOENIX BARRICADING MANUAL, MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION, M.A.G. UNIFORM STANDARD DETAIL 401, AND COB REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND BARRICADE PLAN TO THE COB FOR APPROVAL WHERE THE CONSTRUCTION OF THE NEW IMPROVEMENTS ARE ADJACENT TO OR CONNECTING TO ANY EXISTING ROADWAY OR PEDESTRIAN FACILITIES. THE TRAFFIC CONTROL PLAN AND BARRICADE PLAN SHALL BE APPROVED BEFORE A PERMIT FOR THE WORK WILL BC ISSUED. THE CONTRACTOR SHALL INSTALL APPROVED BARRICADING AND TRAFFIC CONTROL, AS APPROVED BY THE COB, BEFORE WORK CAN TAKE PLACE. ALL OVERNIGHT BARRICADES SHALL BE LIT AND FUNCTIONING.
12. A HAUL PLAN FOR MATERIAL IMPORT OR EXPORT SHALL BE REQUIRED FOR COB REVIEW AND APPROVAL PRIOR TO THE START OF HAULING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC. THIS WORK INCLUDES STREET SWEEPING, POWER BROOM AND WATER AS NEEDED OR DIRECTED BY THE COB.
13. ENVIRONMENTAL REQUIREMENTS
    A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL RELATED TO THE PROJECT CONSTRUCTION AND SHALL TAKE WHATEVER MEANS NECESSARY TO CONTROL ANY ABNORMAL CONDITIONS.
    B. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
    C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC.
    D. TEMPORARY DRAINAGE CONTROL MEASURES MAY BE REQUIRED DURING AND AFTER CONSTRUCTION UNTIL FINAL PROJECT BUILD-OUT IN ACCORDANCE WITH THE APPROVED PLANS AND IN ACCORDANCE WITH ANY ESTABLISHED OR REQUIRED BEST MANAGEMENT PRACTICES (BMP) AS PART OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS.
    E. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL AIR QUALITY PERMITS.
    F. THE CONTRACTOR SHALL SUBMIT TO THE COB A COPY OF THEIR APPROVED COUNTY (AIR QUALITY) DUST CONTROL PLAN, EROSION CONTROL PLAN (SWPPP), AND PERMIT PRIOR TO THE START OF WORK.
14. STREET CUTS: APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. THE PAVEMENT REPLACEMENT SECTION FOR ALL LONGITUDINAL AND TRANSVERSE TRENCHES LOCATED IN AN EXISTING PAVED STREET SHALL BE CONSTRUCTED IN ACCORDANCE M.A.G. UNIFORM STANDARD DETAIL NO. 200 "T"-TOP, BACKFILL, PAVEMENT SURFACE REPLACEMENT, MODIFIED AS FOLLOWS: THE WIDTH OF THE REPLACED PAVEMENT SECTION EXTEND 1 FOOT BEYOND THE TRENCH SIDE EDGE LINE, ON EITHER SIDE OF THE TRENCH. THE DEPTH OF THE PERMANENT SURFACE REPLACEMENT SHALL BE A MINIMUM OF 3 INCHES OR MATCH THE EXISTING THICKNESS OF THE PAVEMENT, WHICHEVER IS GREATER. SAWCUT OR CONSTRUCTION JOINTS SHALL BE ADEQUATELY TACK OILED WITH A MINIMUM OF 95% COVERAGE. ASPHALT MATERIAL SHALL BE A COB APPROVED MIX DESIGN WITH COMPACTED LIFTS NO GREATER THAN 3 INCHES. SLURRY BACKFILLED OR OPEN TRENCHES IN EXISTING ROADWAYS MUST BE PROPERLY STEEL PLATED AND BARRICADED OVER NIGHT. STEEL PLATES TO BE MILLED FLUSH WITH ROADWAY SURFACE PER NOTE 24. "COLD MIX" TEMPORARY ASPHALT PATCHES MUST BE REPLACED AS SOON AS POSSIBLE AND CANNOT REMAIN FOR MORE THAN 5 DAYS TIME OR AS REQUIRED BY THE COB. DURING THE 5 DAY PERIOD THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PATCH TO WITHIN MAG STD SPEC 321.5.3. ASPHALT IN PLACE FOR LESS THAN 5 YEARS SHALL BE MILLED AND OVERLAYED A MINIMUM OF 20 FEET PAST TRENCH WALLS, AND IN THE CASE OF MULTIPLE STREET CUTS, THE CONTINUOUS MILL AND OVERLAY SHALL EXTEND A MINIMUM OF 20-FEET PAST END OF THE FURTHEST TRENCH WALLS.
15. POTHOLING: NO POTHOLING SHALL BE DONE ON ANY STREET NEWER THAN 2 YEARS OLD. ALL POTHOLING IN EXISTING STREETS SHALL BE DONE USING WATER/AIR/VACUUM TYPE METHOD. POTHOLE SIZE SHALL BE LIMITED TO A 12 INCH BY 12 INCH SQUARE HOLE. REMOVAL MATERIAL CANNOT BE USED FOR BACK FILL. THE CONTRACTOR SHALL USE SLURRY PER MAG SEC. 728. PAVEMENT REPLACEMENT SHALL BE BY APPROVED HOT MIX ASPHALT ONLY. A 3 FOOT BY 3 FOOT PAVEMENT SLURRY SEAL SHALL BE APPLIED AFTER THE ASPHALT IS PLACED.
16. AN APPROVED, UP-TO-DATE SET OF PLANS AND A RIGHT-OF-WAY PERMIT SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WHILE WORK IS IN PROGRESS. IF THE PLANS AND PERMITS ARE NOT ON SITE, THE WORK SHALL BE STOPPED UNTIL THE APPROVED PLANS ARE PROVIDED. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT THE COB'S APPROVAL.
17. DAMAGE TO ANY AND ALL ITEMS CAUSED BY CONSTRUCTION OR CONSTRUCTION RELATED WORK SHALL BE REPLACED OR REPAIRED TO THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
18. ALL PARCEL CONSTRUCTION ACCESS LOCATIONS ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE ACCESS ROADS INSIDE AND THROUGHOUT THE PARCEL ALLOWING FOR INSPECTION ACCESSIBILITY. THIS INCLUDES GRADING, GRAVEL FILL AND/OR TRENCH PLATES AS REQUIRED.
19. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COB AND THE COB CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE COB.
20. THE COB SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONNECTION WITH THE WORK. THE COB WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS COMPLYING WITH MAG OR COB REQUIREMENTS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CERTIFIED AS-BUILT RECORD DOCUMENTS TO THE COB FOR REVIEW AND APPROVAL. NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL "AS-BUILT" PLANS CERTIFIED BY THE PROJECT ENGINEER/LAND SURVEYOR HAVE BEEN SUBMITTED AND ACCEPTED BY THE COB. FINAL CONSTRUCTION ACCEPTANCE OR THE RELEASE OF CERTIFICATE OF OCCUPANCIES SHALL NOT BE ISSUED UNTIL ALL AS-BUILT DRAWINGS AND OTHER REQUIRED DOCUMENTS PER THE COB'S FINAL PROJECT SUBMITTAL CHECKLIST, HAVE BEEN REVIEWED AND APPROVED BY THE CITY ENGINEER.
22. ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING THE WATER RESOURCE DEPARTMENT AT (623) 349-6800.
23. THE COB IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR RELOCATION OF UTILITIES.
24. ALL CONTRACTORS SHALL CONTRACT FOR TRASH PICKUP THROUGH A LICENSED CITY OF BUCKEYE SOLID WASTE HAULER (602-237-2078) AND DISPOSED OF AT THE SOUTHWEST REGIONAL LANDFILL IN BUCKEYE.
25. OPEN TRENCHES ACROSS DRIVEWAYS, STREETS AND CROSS-STREETS SHALL BE PLATED FOR OVERNIGHT, WEEKEND OR EXTENDED PERIODS, PER M.A.G. UNIFORM STANDARD DETAIL 211.
26. ALL ABC SHALL BE FROM AN ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) APPROVED SOURCE LIST.
27. LONGITUDINAL TRENCH BACKFILL IN EXISTING ARTERIAL, COLLECTOR, OR LOCAL ROADWAYS OR ADJACENT TO EXISTING ROADWAY (WHEN THE TRENCH EXCAVATION FALLS WITHIN 2 FEET OF EDGE OF PAVEMENT) SHALL REQUIRE 1/2 SACK CLSM PER MAG SPEC 728 FULL DEPTH OR ABC FULL DEPTH AS DIRECTED BY THE COB. ABC BACKFILL COMPACTION SHALL BE BY AN APPROVED MECHANICAL METHOD (NO WATER SETTLING) WITH BACKFILL MATERIAL LIFTS AS FOLLOWS:
    - 12 INCH LIFTS (LOOSE) TO BE USED IN THE TOP 4 FEET OF THE TRENCH
    - 24 INCH LIFTS (LOOSE) TO BE USED FROM 1 FOOT OVER THE PIPE TO 4 FEET FROM THE TOP OF THE TRENCH PER MAG SEC. 601.4.
28. ALL BACKFILL WITHIN OR ADJACENT TO EXISTING ROADWAYS SHALL BE MECHANICALLY COMPACTED.
29. TRANSVERSE TRENCH BACKFILL IN ALL EXISTING ROADWAYS SHALL REQUIRE 100% FULL DEPTH HALF SACK CLSM PER MAG SPEC 728.
30. ALL MATERIAL SUBMITTALS INCORPORATED IN THE PROJECT SHALL BE SUBMITTED AT OR BEFORE THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

ELECTRICAL GENERAL CONSTRUCTION NOTES

1. ALL EQUIPMENT, MATERIALS AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING OR NOTED OTHERWISE ON OTHER SHEETS.
2. PROVIDE ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE WORKING ELECTRICAL SYSTEM.
3. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY AND LOCAL CODES AND ORDINANCES, AS WELL AS ALL CURRENT STANDARDS, CODES AND PRACTICES AS REQUIRED BY NEC, NEMA, ANSI, NFPA, UBC, UL, IEEE, AND UTILITY COMPANY STANDARDS.
4. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER OF ALL SHOP DRAWINGS AND MANUFACTURERS DATA FOR PANEL BOARDS, TRANSFORMERS, WIRING DEVICES, ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL INDICATE THAT THE CONTRACTOR HAS REVIEWED THE INFORMATION THEREIN AND THAT THE PROPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOB SITE. ANY SUBSTITUTIONS SHALL BE OF THE EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
5. ALL WIRE SHALL BE STRANDED COPPER WITH XHHW-2 INSULATION OR APPROVED EQUAL.
6. ALL CONDUIT SHALL BE ROUTED UNDER FOOTINGS WHERE APPLICABLE. REFER TO STRUCTURAL DETAILS FOR MORE INFORMATION.
7. THE USE OF SERIES RATING OF UPSTREAM OR DOWNSTREAM CIRCUIT BREAKERS OR FUSES IS PROHIBITED. ONLY FULLY RATED SYSTEM COMPONENTS WILL BE ACCEPTED.
8. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40. ALL ELBOWS AND EXPOSED RISERS SHALL BE WRAPPED RIGID STEEL CONDUIT.
9. TYPE MC OR TYPE AC CABLE SHALL ONLY BE USED WITH THE SPECIFIC WRITTEN PERMISSION OF THE PROGRAM/PROJECT MANAGER. EMT TYPE CONDUIT WILL NOT BE ALLOWED.
10. ORDER AND/OR RELEASE ORDERED MATERIALS PROMPTLY AFTER SUBMITTAL APPROVAL. NO SUBSTITUTIONS OR ALTERNATE METHODS OF INSTALLATION WILL BE ACCEPTED FOR FAILURE TO ORDER MATERIALS IN A TIMELY FASHION.
11. PULL ROPES: PROVIDE 300 POUND PULL WIRE OR NYLON EQUIVALENT IN ALL INTERIOR EMPTY CONDUIT RUNS. PROVIDE 1/4" DIA NYLON PULL ROPE IN EACH EMPTY EXTERIOR CONDUIT OR DUCT.
12. ALL MULTIPLE POLE CIRCUITS SHALL BE PROVIDED WITH HANDLE TIES AS REQUIRED BY NEC.
13. CONDUIT/ CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT THE TIME OF CONSTRUCTION.
14. PRIOR TO PURCHASE OF ANY PANEL, PROTECTIVE DEVICES, SWITCH, STARTER, CONDUIT, WIRE, ETC., TO FEED ANY PIECE OF EQUIPMENT VERIFY THE VOLTAGE, PHASE, AND LOAD OF THAT ITEM IN THE FIELD AND/OR WITH THE PARTICULAR ENTITY INVOLVED IN THE FURNISHING THE ITEM SUCH THAT THE PROPER SIZE & RATING OF THE MATERIALS ARE PURCHASED. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY. THIS APPLIES TO ALL EQUIPMENT UNDER OTHER SECTIONS & BY THE OWNER.
15. DUE TO THE REQUIREMENTS TO INTERFACE WITH EXISTING FACILITIES AND UTILITIES. IT IS RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING A JOC PROPOSAL.
16. PROVIDE ALL TRENCHING, EXCAVATION, BACK FILLING, SHORING. PUMPING, COMPACTION TEST ETC. THAT ARE REQUIRED FOR THE SCOPE OF ELECTRICAL WORK.
17. VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
18. ALL PANEL BOARDS, SWITCHES, MOTOR STARTERS AND SWITCHBOARD CIRCUIT BREAKERS SHALL HAVE ENGRAVED MICARTA NAMEPLATES.
19. ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ELECTRICAL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
20. PROVIDE ALL PANEL BOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE OWNER FOR APPROVAL PRIOR TO FINALIZATION.

LEGEND

—X—X—	EXISTING FENCE
—OH—	EXISTING OVERHEAD POWER LINE
	EXISTING CONDUIT, ABOVE GRADE
	EXISTING CONDUIT, BELOW GRADE
	PROPOSED RGS CONDUIT, ABOVE GRADE
	PROPOSED PVC SCH 40 CONDUIT, BELOW GRADE
E	PROPOSED ELECTRICAL PULL BOX
C	PROPOSED COMMUNICATIONS PULL BOX
J	PROPOSED JUNCTION BOX
	EXISTING LIGHT POLE
	EXISTING TREE
	BRANCH PANELBOARD/SWITCHBOARD
	DISTRIBUTION PANELBOARD/SWITCHBOARD
	AUTOMATIC TRANSFER SWITCH
GEN	PROPOSED GENERATOR SET ON NEW STRUCTURAL PAD. SEE STRUCTURAL DRAWINGS FOR PAD DETAILS.

ABBREVIATIONS

AFG	ABOVE FINISH GRADE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
EX.	EXISTING
GEC	GROUNDING ELECTRODE CONDUCTOR
GND	GROUND
IBC	INTERNATIONAL BUILDING CODE
IFC	INTERNATIONAL FIRE CODE
IMC	INTERMEDIATE METAL CONDUIT
IPC	INTERNATIONAL PLUMBING CODE
KCMIL	THOUSAND CIRCULAR MIL
MLO	MAIN LUG ONLY
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
PCP	PUMP CONTROL PANEL
RMC	RIGID METAL CONDUIT
RTU	REMOTE TERMINAL UNIT
SCCR	SHORT CIRCUIT CURRENT RATING
TYP.	TYPICAL
MH	MOUNT HEIGHT

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

REVISIONS:
1
2
3

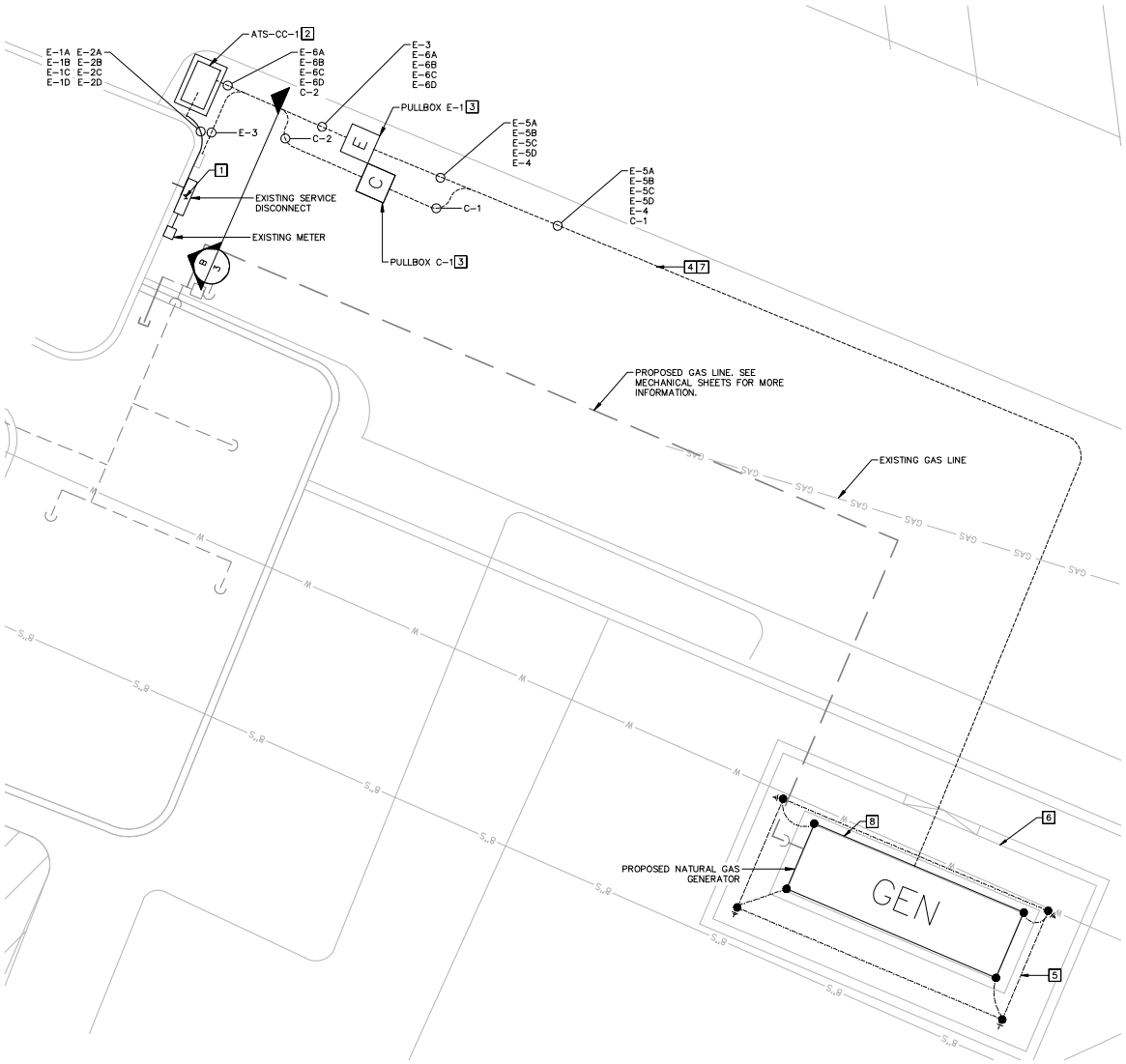
PLAN NAME
ELECTRICAL GENERAL NOTES

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Registered Professional Engineer
CERTIFICATE NO. 30360
Nathan A. Colonna
Date Signed 07/07/20
ARIZONA, U.S.A.
Expires 12/31/21

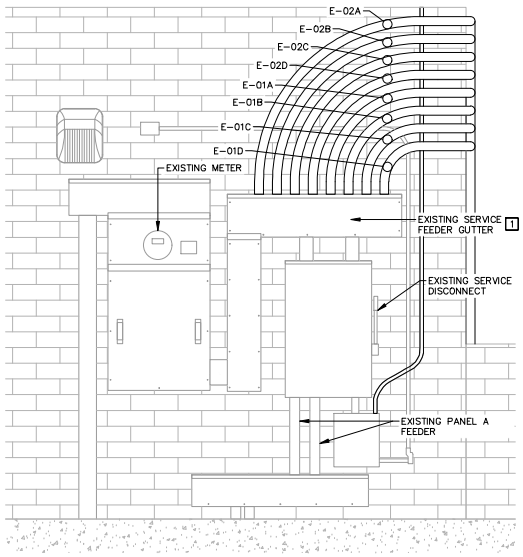
ORIGINAL PLAN DATE 07/07/2020
LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012
SHEET NUMBER 2 of 9

SUBMITTAL: FINAL
COB PLAN TRACKING #
COB PERMIT #



A
–
GENERATOR ELECTRICAL SITE PLAN
COMMUNITY CENTER (201 CENTRE AVENUE)

SCALE:
GRAPHIC SCALE IN FEET
0 2 4 8



B
–
EXISTING ELECTRICAL SERVICE EQUIPMENT
SCALE:NTS

CONSTRUCTION NOTES

1. DISCONNECT EXISTING 400A FEEDER PANEL A FEEDER(S) INSIDE ELECTRICAL GUTTER. ROUTE NEW CONDUIT AS PROPOSED IN ONE-LINE DIAGRAM AND CONDUIT SCHEDULE TO/FROM ATS-CC-1. SEE DETAIL B THIS SHEET FOR PROPOSED CONDUIT BREAK LOCATION.
2. MOUNT ATS-CC-1 ON 4" THICK HOUSEKEEPING PAD. SEE ONE-LINE DIAGRAM FOR ATS-CC-1 INFORMATION.
3. #5 ELECTRICAL PULLBOX. DETAIL SHOWN ON SHEET 5.
4. UNDERGROUND TRENCH DETAIL SHOWN ON SHEET 5.
5. PROVIDE GROUND RING FOR TRANSFORMER PER SPECIFICATIONS. GROUND ROD AND TEST WELL CONNECTION DETAIL SHOWN ON SHEET 5.
6. NEW WALL AND GATE AROUND GENERATOR. SEE STRUCTURAL PLANS ON SHEETS 7 AND 8.
7. SEE CONDUIT SCHEDULE ON SHEET 4 FOR CONDUIT AND INTERCONNECTION DETAILS.
8. PROPOSED 250 KW/313 KVA, 208/120V, 3P, 4W, NEMA 3R, NATURAL GAS GENERATOR WITH LEVEL TWO ACOUSTIC ENCLOSURE.

REVISIONS:

1

2

3

PLAN NAME
ELECTRICAL SITE PLAN

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL Registered Professional Engineer (Electrical) CERTIFICATE NO. 50368 Michael A. Colombo Date Signed 07/07/20 ARIZONA, U.S.A. Expires 12/31/21
ORIGINAL PLAN DATE 07/07/2020	LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012	SHEET NUMBER 3 of 9

SUBMITTAL: FINAL

COB PLAN TRACKING #

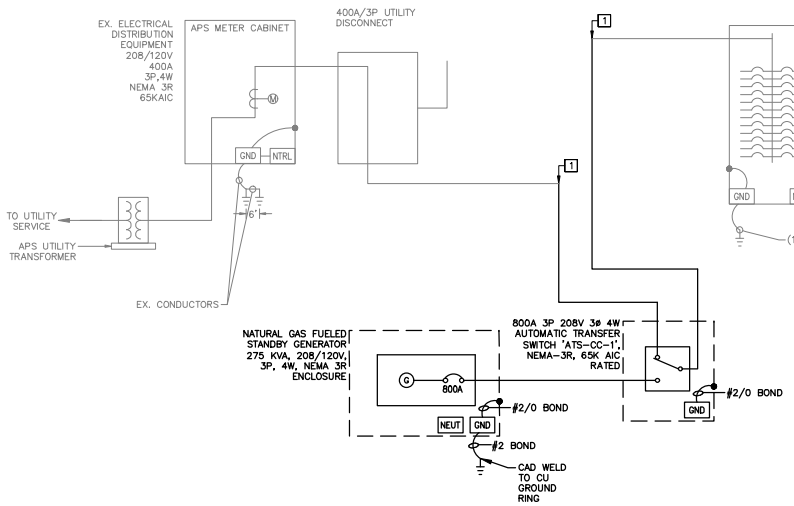
COB PERMIT #

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

198

502



A — ONE-LINE DIAGRAM
SCALE:NOT TO SCALE

CONSTRUCTION NOTES

1. DISCONNECT FEEDER TO PANEL A. RECONNECT TO ATS-CC-1. SEE CONDUIT SCHEDULE FOR INTERCONNECTION DETAILS.
2. INSTALL TWO NEW 20A/1P CIRCUIT BREAKERS FOR GENERATOR BLOCK HEATER AND GENERATOR BATTERY CHARGER.

GENERATOR LOAD CALCULATION

LOAD DESCRIPTION	AMPS
EXISTING LOADS PEAK DEMAND OVER LAST YEAR (2018)* 125% OF PEAK DEMAND (PER NEC 220.87) $\frac{(73\ KVA)(1.25)}{(208\ V)(\sqrt{3})} =$	
TOTAL CALCULATED PEAK DEMAND (EXISTING)	252
TOTAL REMOVED LOAD	0
PROPOSED LOADS PROPOSED LOAD (GENERATOR ANCILLARY LOADS)	10
TOTAL PROPOSED LOAD	10
FUTURE LOADS (PANEL D* 49KVA, PANEL E* 83KVA)	366
TOTAL GEN LOAD (EXISTING-REMOVED+PROPOSED+FUTURE)	628
PERCENT LOADED % (TOTAL LOAD/764A)	82.2%

*EXISTING SITE PEAK DEMAND, AND 'FUTURE LOADS PANEL D, PANEL E REFERENCED FROM 'BUCKEYE COMMUNITY CENTER KITCHEN ADDITION 90% PLANS.

C — GENERATOR LOAD SUMMARY
SCALE:NOT TO SCALE

ELECTRICAL UPGRADES CONDUIT AND CABLE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	CONDUIT STATUS	CONDUCTORS/CABLE QTY	CONDUCTORS/CABLE SIZE	CONDUCTORS/CABLE FROM	CONDUCTORS/CABLE TO	CONDUCTORS/CABLE PURPOSE	REMARKS
E-01A	2.5"	NEW	4	#3/0 AWG	400A 3P UTILITY METER	ATS-CC-1	POWER	DEMOLISH CONDUIT GUTTER ABOVE DISCONNECT. REROUTE NEW CONDUIT(S) PER CONDUIT SCHEDULE TO/FROM ATS-CC-1
			1	#1/0 AWG			GROUND	
E-01B	2.5"	NEW	4	#3/0 AWG	400A 3P UTILITY METER	ATS-CC-1	POWER	DEMOLISH CONDUIT GUTTER ABOVE DISCONNECT. REROUTE NEW CONDUIT(S) PER CONDUIT SCHEDULE TO/FROM ATS-CC-1
			1	#1/0 AWG			GROUND	
E-01C	2.5"	NEW	4	#3/0 AWG	400A 3P UTILITY METER	ATS-CC-1	POWER	DEMOLISH CONDUIT GUTTER ABOVE DISCONNECT. REROUTE NEW CONDUIT(S) PER CONDUIT SCHEDULE TO/FROM ATS-CC-1
			1	#1/0 AWG			GROUND	
E-01D	2.5"	NEW	4	#3/0 AWG	400A 3P UTILITY METER	ATS-CC-1	POWER	DEMOLISH CONDUIT GUTTER ABOVE DISCONNECT. REROUTE NEW CONDUIT(S) PER CONDUIT SCHEDULE TO/FROM ATS-CC-1
			1	#1/0 AWG			GROUND	
E-02A	2.5"	NEW	4	#3/0 AWG	ATS-CC-1	400A 3P UTILITY DISCONNECT	POWER	DEMOLISH CONDUIT GUTTER ABOVE DISCONNECT. REROUTE NEW CONDUIT(S) PER CONDUIT SCHEDULE TO/FROM ATS-CC-1
			1	#1/0 AWG			GROUND	
E-02B	2.5"	NEW	4	#3/0 AWG	ATS-CC-1	400A 3P UTILITY DISCONNECT	POWER	DEMOLISH CONDUIT GUTTER ABOVE DISCONNECT. REROUTE NEW CONDUIT(S) PER CONDUIT SCHEDULE TO/FROM ATS-CC-1
			1	#1/0 AWG			GROUND	
E-02C	2.5"	NEW	4	#3/0 AWG	ATS-CC-1	400A 3P UTILITY DISCONNECT	POWER	DEMOLISH CONDUIT GUTTER ABOVE DISCONNECT. REROUTE NEW CONDUIT(S) PER CONDUIT SCHEDULE TO/FROM ATS-CC-1
			1	#1/0 AWG			GROUND	
E-02D	2.5"	NEW	4	#3/0 AWG	ATS-CC-1	400A 3P UTILITY DISCONNECT	POWER	DEMOLISH CONDUIT GUTTER ABOVE DISCONNECT. REROUTE NEW CONDUIT(S) PER CONDUIT SCHEDULE TO/FROM ATS-CC-1
			1	#1/0 AWG			GROUND	
E-3	1"	NEW	4	#6 AWG	PANEL C	PULLBOX E-1	POWER	GENERATOR ANCILLARY LOADS: PANEL C, CKT 5 & 7
			1	#6 AWG			GROUND	
E-4	1"	NEW	4	#6 AWG	PULLBOX E-1	GENERATOR	POWER	GENERATOR ANCILLARY LOADS: PANEL C, CKT 5 & 7
			1	#6 AWG			GROUND	
E-05A	2.5"	NEW	4	#3/0 AWG	GENERATOR	PULLBOX E-1	POWER	PARALLEL CONDUIT TO ATS-CC-1
			1	#1/0 AWG			GROUND	
E-05B	2.5"	NEW	4	#3/0 AWG	GENERATOR	PULLBOX E-1	POWER	PARALLEL CONDUIT TO ATS-CC-1
			1	#1/0 AWG			GROUND	
E-05C	2.5"	NEW	4	#3/0 AWG	GENERATOR	PULLBOX E-1	POWER	PARALLEL CONDUIT TO ATS-CC-1
			1	#1/0 AWG			GROUND	
E-05D	2.5"	NEW	4	#3/0 AWG	GENERATOR	PULLBOX E-1	POWER	PARALLEL CONDUIT TO ATS-CC-1
			1	#1/0 AWG			GROUND	
E-06A	2.5"	NEW	4	#3/0 AWG	PULLBOX E-1	ATS-CC-1	POWER	PARALLEL CONDUIT TO ATS-CC-1
			1	#1/0 AWG			GROUND	
E-06B	2.5"	NEW	4	#3/0 AWG	PULLBOX E-1	ATS-CC-1	POWER	PARALLEL CONDUIT TO ATS-CC-1
			1	#1/0 AWG			GROUND	
E-06C	2.5"	NEW	4	#3/0 AWG	PULLBOX E-1	ATS-CC-1	POWER	PARALLEL CONDUIT TO ATS-CC-1
			1	#1/0 AWG			GROUND	
E-06D	2.5"	NEW	4	#3/0 AWG	PULLBOX E-1	ATS-CC-1	POWER	PARALLEL CONDUIT TO ATS-CC-1
			1	#1/0 AWG			GROUND	
C-1	1"	NEW	8-PR #16 AWG		GENERATOR	PULLBOX C-1	POWER	GENERATOR CONTROLS
							GROUND	
C-2	1"	NEW	8-PR #16 AWG		PULLBOX C-1	ATS-CC-1	POWER	GENERATOR CONTROLS
							GROUND	

B — CONDUIT AND CONDUCTOR SCHEDULE
SCALE:NOT TO SCALE

PANEL: C

VOLTAGE: 120/208
PHASE, WIRES: 1ø, 3W
SCCR (AMPS): EXISTING
SOURCE: PANEL B

PANEL BUS: 60 AMPS
MAIN: MLO BREAKER

	DESCRIPTION	VA	CB	CKT	A	B	CKT	CB	VA	DESCRIPTION
	EXISTING UNKNOWN LOAD		30/3	1	0.0		2	20/1		EXISTING UNKNOWN LOAD
				3		0.0	4	20/1		EXISTING UNKNOWN LOAD
				5	0.0		6	20/1		EXISTING UNKNOWN LOAD
2	GENERATOR BLOCK HEATER	1800	20/1	7		15.0	8			SPACE
2	GENERATOR BATTERY CHARGER	1800	20/1	17	15.0		18			SPACE
				TOTALS	15.0	15.0	AMPS			

LOAD CALCULATIONS:
SUBTOTAL (VA): 3600
+25% PER NEC (VA): 900
TOTAL (VA): 4500 @ 240V, 1Ø = 18.8 AMPS

D — PANEL C SCHEDULE
SCALE:NOT TO SCALE

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	Isc	**% Vdrop
1	Utility Published Data	21553	21,553										21,553	
2	SES	1	21,553	NM	Copper	2	Set of	3/0	400	50	480	3	18,912	0.32%
3	ATS	2	18,912	NM	Copper	2	Set of	3/0	400	10	480	3	18,460	0.38%

E — FAULT CURRENT CALCULATION
SCALE:NOT TO SCALE

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL ONE LINE DIAGRAM

ENGINEER INFORMATION
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7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL

Registered Professional Engineer CERTIFICATE NO. 30360 Michael K. Colonno Date Signed 07/07/20 ARIZONA, USA
Expires 12/31/21

ORIGINAL PLAN DATE 07/07/2020
LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012
SHEET NUMBER 4 of 9

COB PLAN TRACKING #
COB PERMIT #

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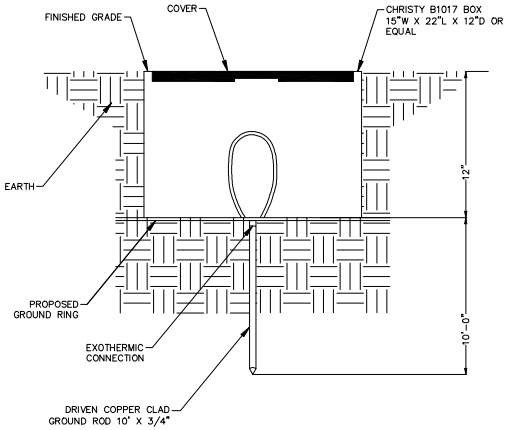
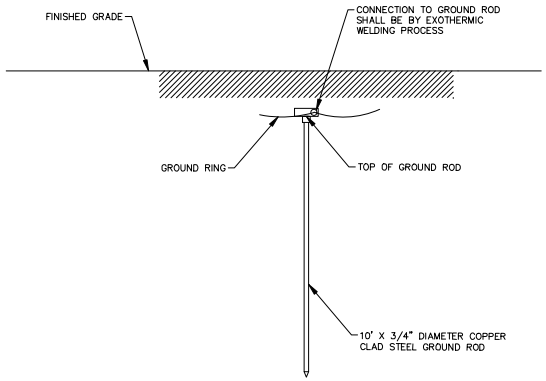


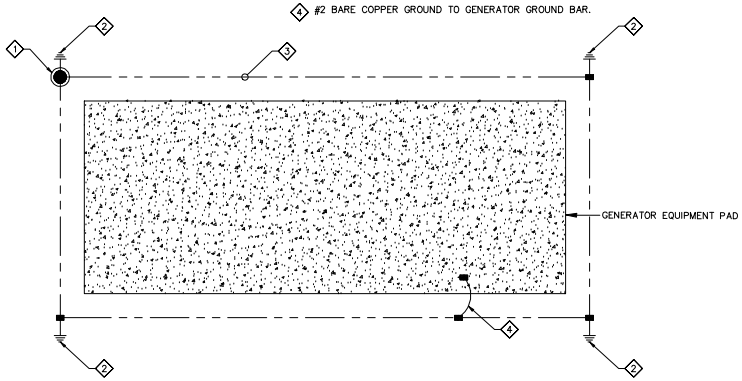
A — GROUNDING TEST WELL DETAIL
SCALE:N.T.S.



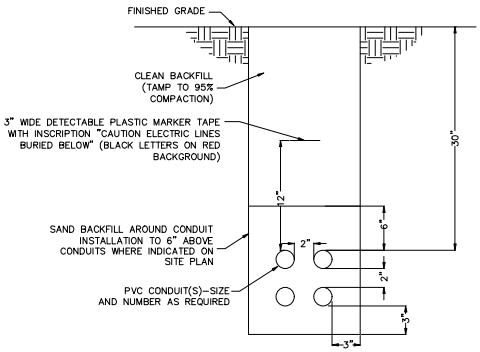
B — GROUND ROD DETAIL
SCALE:N.T.S.

GROUNDING NOTES

1. PROVIDE GROUND TEST POINT PER GROUDING TEST WELL DETAIL.
2. PROVIDE 10' X 3/4" COPPER CLAD GROUND ROD PER GROUND ROD DETAIL .
3. #2 BARE COPPER GROUND GRID BURIED AT 30" BELOW FINISHED GRADE.
4. #2 BARE COPPER GROUND TO GENERATOR GROUND BAR.



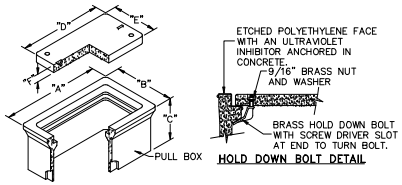
C — GENERATOR GROUNDING PLAN
SCALE:N.T.S.



ALL DIMENSIONS ARE
MINIMUM

NOTE:
1) THIS CONDUIT DUCT BANK DETAIL SHALL BE REFERENCED FOR ALL UNDER GROUND CONDUIT INSTALLATIONS.

D — TYPICAL UNDERGROUND CONDUIT INSTALLATION DETAIL
SCALE:NOT TO SCALE



HOLD DOWN BOLT DETAIL

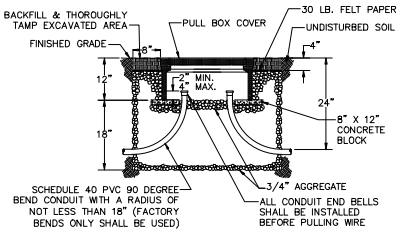


LID 'A'

LID 'A' REINFORCED CONCRETE W/HOLD DOWN BOLTS

DATA TABLE						
PULLBOX TYPE	PULLBOX LENGTH	PULLBOX WIDTH	PULLBOX HEIGHT	LID LENGTH	LID WIDTH	LID HEIGHT
	"A"	"B"	"C"	"D"	"E"	"F"
#3 1/2	19-3/4"	14-1/4"	12"	15-1/4"	10"	1-3/4"
#5	25-1/4"	15-3/4"	12"	20-5/8"	10-1/2"	2"
#7	34-3/4"	21-3/4"	12"	30-1/8"	17-5/8"	2"

E — PULL BOX INSTALLATION DETAIL
SCALE:NOT TO SCALE



GENERAL NOTES:

1. THE PULL BOX SHALL BE MADE OF A HIGH DENSITY REINFORCED CONCRETE MATERIAL WITH END & SIDE KNOCKOUTS, & NONSETTLING SHOULDERS TO MAINTAIN GRADE, MANUFACTURED WITH APPROXIMATE DIMENSIONS AS SHOWN.
2. STEEL REINFORCEMENT SHALL BE AS REGULARLY USED IN STANDARD PRODUCTS OF THE RESPECTIVE MANUFACTURER.
3. COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS: "ELECTRIC" OR "HIGH VOLTAGE", AS REQUIRED.
4. THE PULL BOX SHALL HAVE AN ETCHED POLYETHYLENE FACE WITH AN ULTRAVIOLET INHIBITOR ANCHORED IN CONCRETE.

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL DETAILS

ENGINEER INFORMATION
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SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL
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AS-BUILT SEAL
DESIGN SEAL



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ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	5 of 9

COB PLAN TRACKING #
COB PERMIT #

STRUCTURAL GENERAL NOTES

DESIGN SPECIFICATIONS

2018 INTERNATIONAL BUILDING CODE (IBC) WITH THE CITY OF BUCKEYE AMENDMENTS.

DESIGN LOADS

WIND LOADS: (PER ASCE 7-16)
- BASIC WIND SPEED = ULTIMATE DESIGN WIND SPEED . . . . . .101 MPH
- NOMINAL DESIGN WIND SPEED . . . . . .90 MPH
- RISK CATEGORY II
- Iw 1.00
- STRUCTURE TYPE . . . . . .SOLID FREE-STANDING WALL
- EXPOSURE . . . . . ."C"

MAIN WIND FORCE RESISTING SYSTEM:
- DESIGN WIND PRESSURE . . . . . .16.6 PSF (STRENGTH LEVEL)
- INTERNAL PRESSURE COEFFICIENT 0.00

EARTHQUAKE DESIGN DATA:
- Ie 1.00
- SITE CLASS . . . . . .D
- S_s . . . . . 0.167g S_1 . . . . . .0.077g
- S_{ds} . . . . . 0.178g S_{DI} 0.123g
- SEISMIC DESIGN CATEGORY . . . . . .B
- DESIGN BASE SHEAR (C_s"W") 0.051W
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

EARTH LOADS:
- ALLOWABLE BEARING PRESSURE = 1500 PSF
- ACTIVE EARTH PRESSURE = 45 PCF
- AT-REST EARTH PRESSURE = 60 PCF
- PASSIVE EARTH PRESSURE = 100 PCF
- = 0.25 (W/OUT PASSIVE PRESSURE)
- MODULUS OF SUBGRADE REACTION = 100 PCI

FOUNDATIONS

FOOTING BEARING DEPTH = 20" MIN.

FOR TOP OF FOOTING ELEVATIONS, SEE PERIMETER WALL PLAN THIS SHEET.

ALL EXCAVATION SHALL BE PROPERLY BACKFILLED. FOOTING BACKFILL WITHIN THE FOOTING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE SPECIAL INSPECTOR. FLOODING WILL NOT BE PERMITTED.

WALL BACKFILL MATERIAL, PLACEMENT AND COMPACTION SHOULD COMPLY IN FULL WITH THE PROJECT SPECIFICATIONS. COMPACTION OF EACH LIFT ADJACENT TO WALLS SHALL BE ACCOMPLISHED WITH HAND OPERATED TAMPERS OR OTHER LIGHTWEIGHT COMPACTORS. FLOODING OR JETTING IS PROHIBITED.

SLAB ON GRADE SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. SLAB ON GRADE PREPARATION SHALL BE PREPARED AS STATED IN THE PROJECT SPECIFICATIONS. FOR SLAB-ON-GRADE, THE UPPER 12 INCHES OF SUBGRADE SOILS AND AGGREGATE SUBBASE SHOULD CONSIST OF IMPORTED LOW VOLUME CHANGE MATERIALS." EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE SPECIAL INSPECTOR PRIOR TO PLACING THE CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR WHEN THE EXCAVATIONS ARE READY FOR INSPECTION. THE SPECIAL INSPECTOR SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE SPECIAL INSPECTOR, FOOTING ELEVATIONS, OR FOOTING DESIGNS WILL BE ALTERED BY CHANGE ORDER.

CONCRETE REINFORCING

SEE MAG STANDARD SPECIFICATIONS SECTION 505 AND 725 CLASS A (TYPE II) CONCRETE.

MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH, f'c = 3000 PSI.
REINFORCING STEEL, ASTM A615 GRADE 60, fy = 60,000 PSI.

MASONRY AND REINFORCING:

MASONRY: F'm = 1500 PSI; ASTM C90; MEDIUM WEIGHT; RUNNING BOND; STANDARD BLOCK

MORTAR: ASTM C270; TYPE S; CUBE STRENGTH = 1800 PSI

GROUT: ASTM C476, TYPE = COARSE; CUBE STRENGTH = 2000 PSI.

JOINT NOTES

CONCRETE:
FOOTINGS AND SLAB ON GRADE MAY BE CONTINUOUS WITH NO JOINT.

MASONRY:
MASONRY WALL MAY BE CONTINUOUS WITH NO JOINT.

DIMENSIONS

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND ELEVATIONS WITH THE CIVIL GRADING DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY PRIOR TO START OF CONSTRUCTION.

GENERAL

THE CONTRACT PERIMETER WALL AND SLAB DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO , BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. CONTRACTOR IS RESPONSIBLE FOR ALL O.S.H.A. REQUIREMENTS, NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES AND/OR CONFLICTS.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ARIZONA.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PROVIDED PER 2018 INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17.

A. STEEL CONSTRUCTION (SECTION 1705.2)
B. CONCRETE CONSTRUCTION (TABLE 1705.3)
C. MASONRY CONSTRUCTION (SECTION 1705.4)
D. SOILS (TABLE 1705.6)

POST-INSTALLED ANCHORS

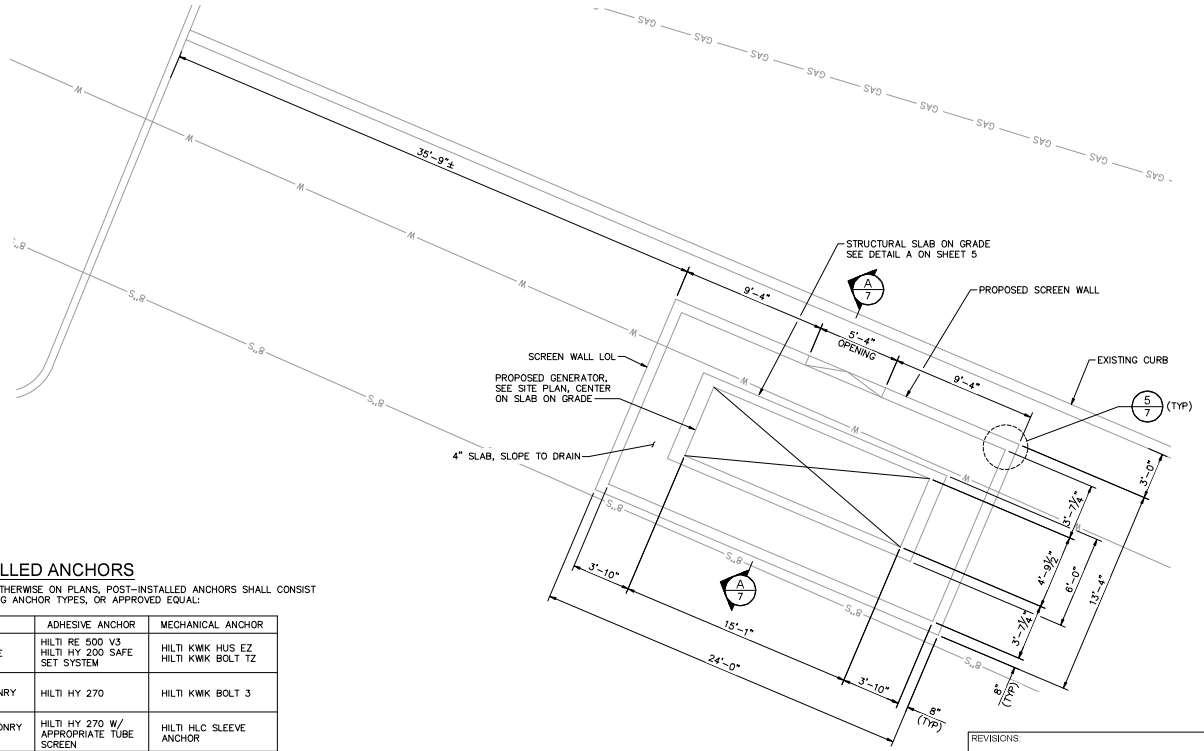
1. UNLESS NOTED OTHERWISE ON PLANS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES, OR APPROVED EQUAL:

	ADHESIVE ANCHOR	MECHANICAL ANCHOR
SOLID CONCRETE	HILTI RE 500 V3 HILTI HY 200 SAFE SET SYSTEM	HILTI KWK HUS EZ HILTI KWK BOLT TZ
GROUTED MASONRY	HILTI HY 270	HILTI KWIK BOLT 3
HOLLOWED MASONRY OR BRICK	HILTI HY 270 W/ APPROPRIATE TUBE SCREEN	HILTI HLC SLEEVE ANCHOR

2. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.
3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
4. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
5. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
6. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AWAY FROM THE LOCATIONS OF THE CONCRETE ANCHORS.

ABBREVIATIONS

ASTM.....AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL
CLR.....CLEARANCE
CONT.....CONTINUOUS
MAX.....MAXIMUM
MIN.....MINIMUM
MPH.....MILES PER HOUR
O.C.....ON CENTER
PCF.....POUNDS PER CUBIC FOOT
PSF.....POUNDS PER SQUARE FOOT
PSI.....POUNDS PER SQUARE INCH
TYP.....TYPICAL
LOL.....LAYOUT LINE
T/F.....TOP OF FOUNDATION
T/W.....TOP OF WALL



A – **PROPOSED GENERATOR LOCATIONS**
COMMUNITY CENTER (201 CENTRE AVENUE)
SCALE:1/4"=1'-0"

NOTE:

CONTRACTOR SHALL VERIFY LOCATION OF SLAB AND ENCLOSURE WALL WITH ENGINEER PRIOR TO CONSTRUCTION. ENCLOSURE WALL SHALL BE 3'-0" FROM THE BACK FACE OF CURB. NOTIFY ENGINEER OF ANY DISCREPANCIES.

NORTH

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 inch = 10 ft.

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(OUTSIDE MARICOPA COUNTY)

REVISIONS:
1
2
3

PLAN NAME
STRUCTURAL NOTES AND PLAN

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
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COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Professional Engineer
CERTIFICATE NO.
60164
NATHAN MERRILL
Registered Professional Engineer
ARIZONA, USA

SUBMITTAL: FINAL

ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
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191342012	6 of 9

COB PLAN TRACKING #
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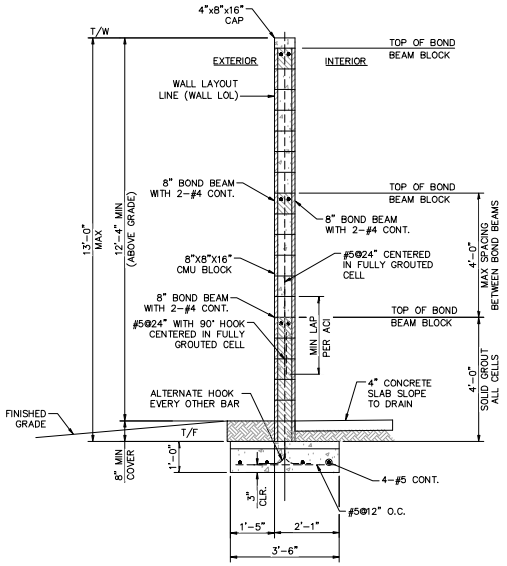
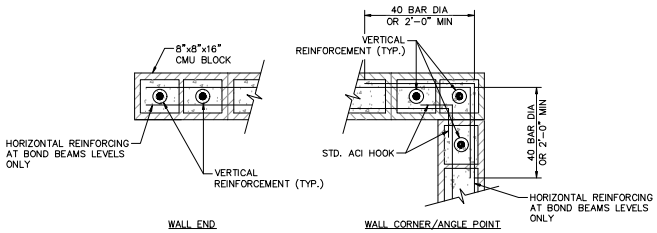
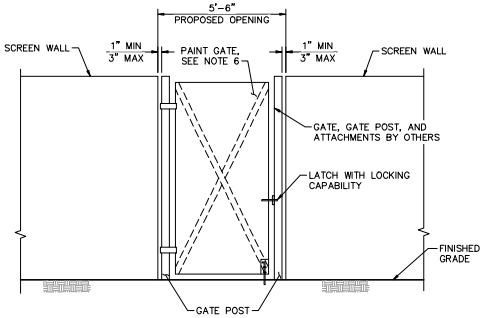


1 — **WALL SECTION**
SCALE:1/2"=1'-0"



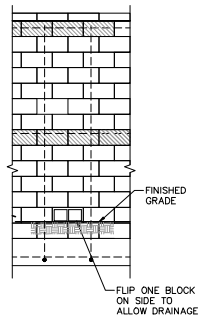
2 — **TYPICAL MASONRY DETAILS**
SCALE:NOT TO SCALE



3 — **GATE DETAIL**
SCALE:3/8"=1'-0"

GATE NOTES:

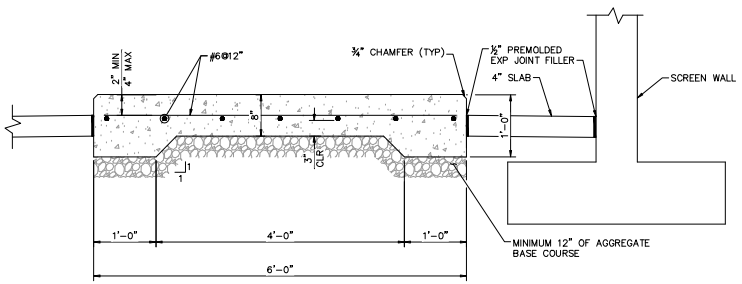
1. GATE DESIGN SHALL BE IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION'S CODE REQUIREMENTS. THE GATE MANUFACTURER SHALL HAVE A LICENSED PROFESSIONAL ENGINEER SEAL AND SIGN THE GATE CALCULATIONS AND SHOP DRAWINGS.
2. LOAD COMBINATIONS USED IN GATE DESIGN SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE.
3. GATE DEFLECTION IN THE VERTICAL DIRECTION SHALL NOT EXCEED ½".
4. IF GATE FOUNDATIONS ARE NECESSARY, SIZES AND LOCATIONS SHALL BE DESIGNATED BY THE GATE MANUFACTURER AND APPROVED BY THE ENGINEER OF RECORD BEFORE CONSTRUCTION.
5. CENTER GATE DOOR IN PROPOSED OPENING.
6. SUBMIT PAINT COLOR TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. GATE SHALL BE GRAY OR BLACK.
7. SUBMIT GATE SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED CIVIL ENGINEER IN THE STATE OF ARIZONA.
8. HOT DIP GALVANIZE STEEL GATE ELEMENTS ACCORDING TO ASTM A123/A123M.



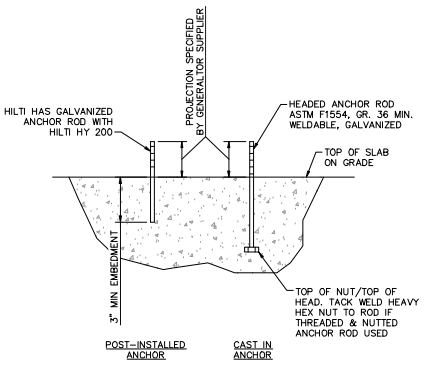
NOTE:

IF THE LOW POINT OF ENCLOSURE SLAB IS NOT AT OPENING, PROVIDE DRAINAGE BLOCK AS SHOWN IN DETAIL.

4 — **WALL DRAIN DETAIL**
SCALE:3/8"=1'-0"



A — **GENERATOR CONCRETE PAD**
SCALE:1"=1'



B — **TYP ANCHOR DETAIL**
SCALE:NOT TO SCALE

NOTES:

1. POST-INSTALLED ADHESIVE ANCHOR RODS ARE ACCEPTABLE IN LIEU OF CAST-IN HEADED ANCHOR RODS AT GENERATOR ANCHOR LOCATIONS.
2. POST-INSTALLED ADHESIVE ANCHOR RODS SHALL STRICTLY FOLLOW MANUFACTURER'S INSTRUCTIONS FOR HOLE SIZE, DRILLING OPERATIONS, PREPARATION, AND MATERIAL HANDLING.
3. SETTING TEMPLATES SHALL BE USED TO SUPPORT ANCHOR RODS DURING CONCRETE PLACEMENT.
4. ANCHOR RODS SHALL BE INSTALLED PLUMB TO FACILITATE THE WASHER AND NUT RESTING FLUSH ON THE BASE PLATE.
5. ALTERNATE POST-INSTALLED ANCHORAGE SYSTEM OF EQUAL PROPERTIES MAY BE USED IN LEIU OF DETAIL SHOWN UPON ENGINEERS APPROVAL.
6. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.

REVISIONS:

1

2

3

PLAN NAME

STRUCTURAL DETAILS

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL: Professional Engineer, CERTIFICATE NO. 60164, NATHAN MERRILL, Registered Professional Engineer, ARIZONA, U.S.A.
ORIGINAL PLAN DATE: 07/07/2020	LATEST REVISION DATE: 07/07/2020
PROJECT NUMBER: 191342012	SHEET NUMBER: 7 of 9

COB PLAN TRACKING #

COB PERMIT #

CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100 1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)

COMMUNITY CENTER (201 CENTRE AVENUE)

PLUMBING SYMBOL LIST

(NOTE: ALL OF THE SYMBOLS INDICATED BELOW MAY NOT APPEAR ON THIS PROJECT)

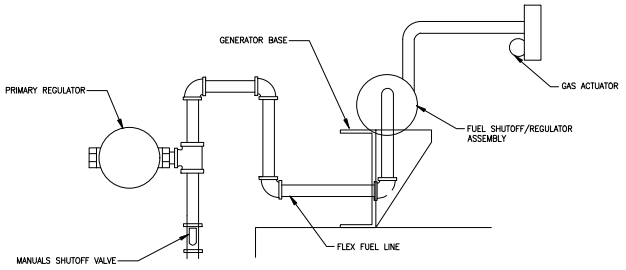
FOS	FOS	FUEL OIL SUPPLY PIPING
FOR	FOR	FUEL OIL RETURN PIPING
	G.V.	GATE VALVE
	GLV	GLOBE VALVE
	BLV	BALL VALVE
	ANV	ANGLE VALVE
	B.F.V.	BUTTERFLY VALVE
	C.H.V.	CHECK VALVE
	P.D.	PIPING TEE DOWN
	P.U.	PIPING TEE UP
	P.U.	PIPING ELBOW UP
	P.D.	PIPING ELBOW DOWN
		BRANCH – TOP CONNECTION
		BRANCH – BOTTOM CONNECTION
		BRANCH – SIDE CONNECTION
	P.T.	PLUGGED TEE
	C.O.P.	CAP ON END OF PIPE
OR		ARROW INDICATES DIRECTION OF FLOW
#		PLUMBING FIXTURE CALLOUT – (SEE SCHEDULE)
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	DN	DOWN
	(E)	EXISTING
	GA	GAUGE
	GAL	GALLON
	GLW	GREASE LADEN WASTE
	GPH	GALLONS PER HOUR
	GPM	GALLONS PER MINUTE

PLUMBING PROJECT NOTES

1. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL/ELECTRICAL FLOOR PLANS FOR EXACT LOCATIONS OF ROUGH-IN FOR ALL EQUIPMENT AS SHOWN ON THE PLUMBING PLANS. EXACT ROUGH-IN DIMENSIONS MUST BE COORDINATED WITH THE APPROVED EQUIPMENT SUBMITTALS TO VERIFY EXACT POINTS OF CONNECTIONS.

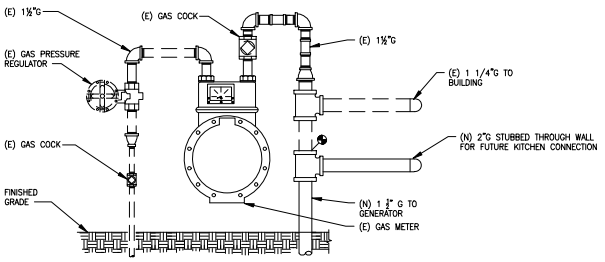
2. ALL PLUMBING SYSTEMS AND COMPONENTS SHALL BE INSTALLED PER 2018 U.P.C.

3. ALL FUEL OIL GAS PIPING MUST BE ROUTED EXPOSED AND OVERHEAD IN ORDER TO ALLOW ROOM FOR SNOW REMOVAL WITH A SNOW BLOWER TO PROVIDE FULL ACCESS TO THE GENERATORS.



GAS PIPING TO GENETATOR CONNECTING DETAIL 1 / M01

SCALE: NONE



GAS METER DETAIL 2 / M01

SCALE: NONE

REVISIONS:

1

2

3

PLAN NAME

MECHANICAL NOTES

ENGINEER INFORMATION

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SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL

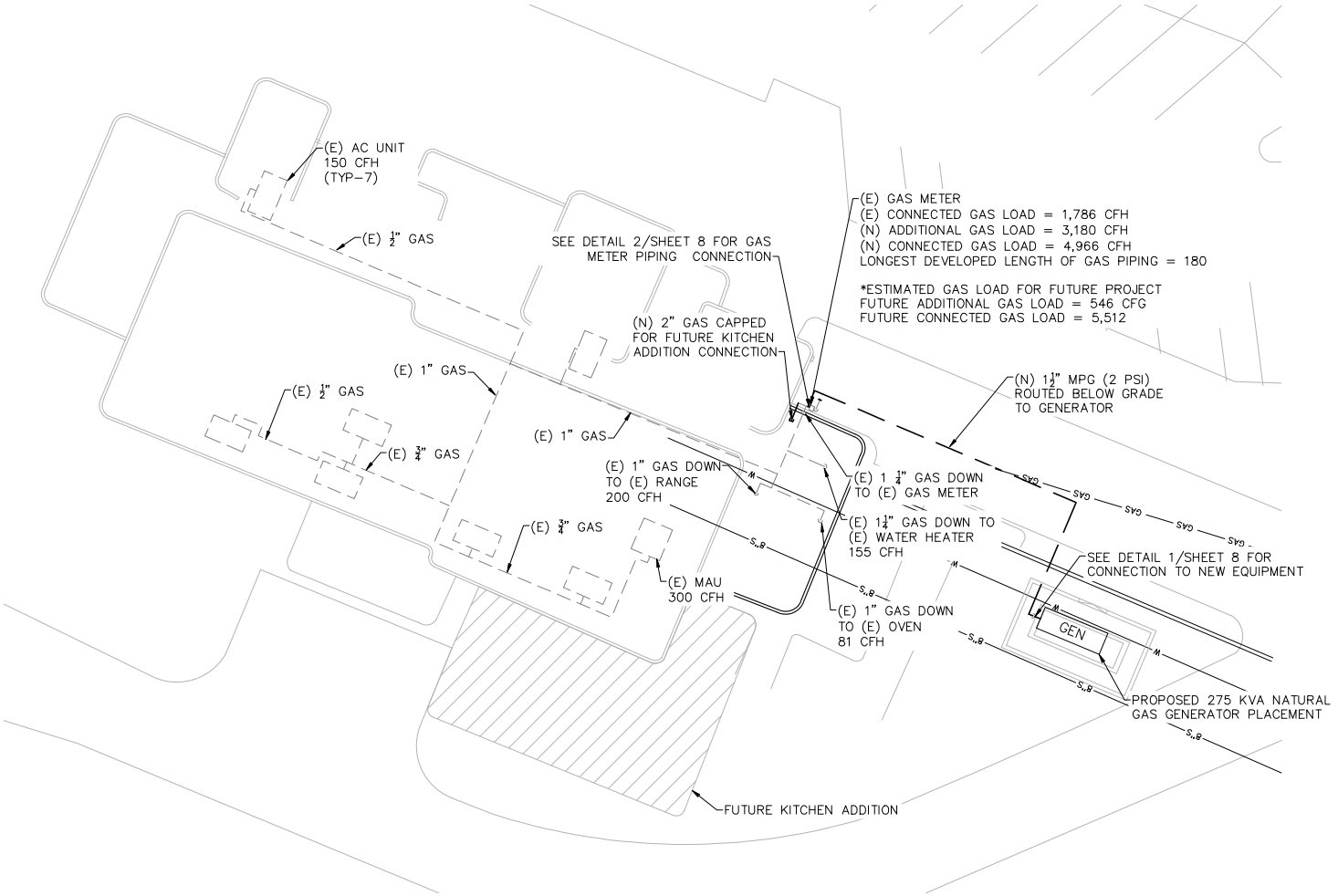
Expires 12-31-2020

ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	8of 9

COB PLAN TRACKING #

COB PERMIT #

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)



A
–

MECHANICAL GENERATOR SITE PLAN
COMMUNITY CENTER (201 CENTRE AVENUE)
SCALE:1"=10'

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

REVISIONS:

1

2

3

PLAN NAME

MECHANICAL SITE PLAN

ENGINEER INFORMATION

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PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL
ORIGINAL PLAN DATE 07/07/2020	LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012	SHEET NUMBER 9 of 9

Registered Professional Engineer (Mechanical)
CERTIFICATE NO. 59059
MATTHEW MYRES
Expires 12-31-2020

SUBMITTAL: FINAL

COB PLAN TRACKING #

COB PERMIT #

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

City of Buckeye Emergency Generator Repair: Buckeye, AZ

STRUCTURAL CALCULATIONS FOR: Community Center Generator Pad

Prepared By:
Nathan Merrill, PE
Ph: 602-371-4573
Kimley-Horn and Associates, Inc.
7740 N. 16th St
Suite 300
Phoenix AZ, 85020



Date: May 2020

Kimley»Horn

Design References:

1. 2018 International Building Code

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1. DESIGN LOADS

Kimley»Horn

Project: ***Emergency Generator Repair - Community Center*** *Subject:* ***Generator Pad Load Summary***

Designed by: ***ALF*** *Date:* ***04/29/2020*** *Checked by:* *Date:*

Table of Contents
Defined Units

Assumptions

Assume Generator is supplying power to Risk Category II structures, therefore generator is RC II.

Assume Generator is anchored to concrete pad at the 4 corners of the acoustic generator pad, not acoustic enclosure.

Assume X direction aligns with generator length, and Y direction aligns with generator width.

Acoustic Enclosure dimensions used to calculate wind loads.

Generator Specifications

$L_{gen} := 136\,in = 11.33\,ft$ — Length of generator - 300 kW Natural Gas Generator Specification - see appendix.

$W_{gen} := 57.1\,in = 4.76\,ft$ — Width of generator - 300 kW Natural Gas Generator Specification - see appendix.

$H_{gen} := 67.9\,in = 5.66\,ft$ — Height of Generator - 300 kW Natural Gas Generator Specification - see appendix.

$L_{enc} := 180.6\,in = 15.05\,ft$ — Length of Enclosure - 300 kW Natural Gas Generator Specification - see appendix..

$W_{enc} := 57.5\,in = 4.79\,ft$ — Width of Enclosure - 300 kW Natural Gas Generator Specification - see appendix.

$H_{enc} := 111.3\,in = 9.27\,ft$ — Height of Enclosure - 300 kW Natural Ga Generator Specification - see appendix.

$n_{anchors} := 4$ — Number of Anchors assumed.

Soils Information

Assume conservative values from IBC Section 1610 & 1806

$p_a := 45\,pcf$ — Active Soil Pressure

$p_{ar} := 60\,pcf$ — At-Rest Soil Pressure

$p_p := 100\,pcf$ — Passive Soil Pressure

$w_{soil} := 120\,pcf$ — Unit Weight of Soil

$\mu := 0.25$ — Soil Sliding Friction Factor

Generator Loading

$q_{wind} := 15.72psf$

Applied Wind pressure. Maximum Tedds Run - see Wind Loading Calculations

$V_{seismic} := 0.7kip$

Seismic Base Shear - see Seismic Loading Calculations. Apply at mid height of equipment to calculate anchor reactions.

$Weight_{gen} := 14.663kip$

300 kW Natural Gas Generator Specification - see appendix.

$$X_{wind} := \frac{\left(q_{wind} \cdot W_{enc} \cdot H_{enc}\right)}{n_{anchors}} = 0.17 \cdot kip$$

$$Y_{wind} := \frac{\left(q_{wind} \cdot L_{enc} \cdot H_{enc}\right)}{n_{anchors}} = 0.55 \cdot kip$$

$$Z_{wind} := \frac{\left[\frac{\left[\left(q_{wind} \cdot L_{enc} \cdot H_{enc}\right) \cdot \frac{H_{enc}}{2}\right]}{\left(\frac{W_{gen}}{2}\right)}\right]}{\frac{n_{anchors}}{2}} = 2.14 \cdot kip$$

Governing uplift- assumed wind is acting on Length of enclosure. Couple analyzed in Y direction for governing uplift - used for anchor design. Dead Load not added - conservative

$$Z_{seismic} := \frac{\left[\frac{\left[\left(V_{seismic}\right) \cdot \frac{H_{enc}}{2}\right]}{\left(\frac{W_{gen}}{2}\right)}\right]}{\frac{n_{anchors}}{2}} = 0.68 \cdot kip$$

Seismic uplift/compression - couple analyzed in Y direction for governing uplift

By inspection Wind Governs anchor and slab design.

$$Z_{strength} := \left(1.2 \cdot \frac{Weight_{gen}}{n_{anchors}}\right) + Z_{wind} = 6.54 \cdot kip$$

Vertical Shear transferred through anchor. Used for slab design

Bearing Check

Check governs over enercalc design - uses full slab area instead of 1 ft tributary width

$L_{pad} := 17ft$

Length of pad

$W_{pad} := 6ft$

Width of pad

Assumed bearing Capacity

$\sigma_{brg} := 1500psf$

$C_{brg} := \sigma_{brg} \cdot L_{pad} \cdot W_{pad} = 153 \cdot kip$

Bearing Capacity

$D_{brg} := Z_{strength} \cdot n_{anchors} = 26.15 \cdot kip$

Bearing Demand

$CH_{brg} := if\left(C_{brg} > D_{brg}, "OK", "NG"\right) = "OK"$

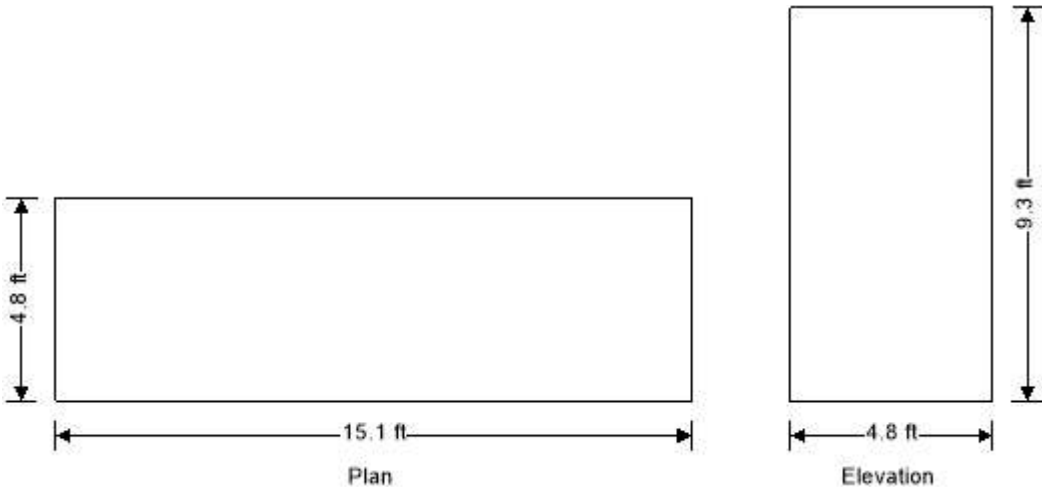
1.1 WIND LOADS

WIND LOADING

In accordance with ASCE7-16

Using the directional design method

Tedds calculation version 2.1.03



Building data

Type of roof	Flat
Length of building	b = **15.05** ft
Width of building	d = **4.79** ft
Height to eaves	H = **9.28** ft
Mean height	h = **9.28** ft

General wind load requirements

Basic wind speed	V = **101.0** mph
Risk category	II
Velocity pressure exponent coef (Table 26.6-1)	K_d = **0.85**
Ground elevation above sea level	z_{gl} = **871** ft
Ground elevation factor	$K_e = \exp(-0.0000362 \times z_{gl}/1ft)$ = **0.97**
Exposure category (cl 26.7.3)	C
Enclosure classification (cl.26.12)	Enclosed buildings
Internal pressure coef +ve (Table 26.13-1)	GC_{pi_p} = **0.18**
Internal pressure coef –ve (Table 26.13-1)	GC_{pi_n} = **-0.18**
Gust effect factor	G_f = **0.85**
Minimum design wind loading (cl.27.4.7)	p_{min_r} = **8** lb/ft^2

Topography

Topography factor not significant	K_{zt} = 1.0
Velocity pressure equation	$q = 0.00256 \times K_z \times K_{zt} \times K_d \times V^2 \times 1psf/mph^2$

Velocity pressures table

z (ft)	K_z (Table 26.10-1)	q_z (psf)
9.28	0.85	18.28

Peak velocity pressure for internal pressure

Peak velocity pressure – internal (as roof press.) q_i = **18.28** psf

Pressures and forces

Net pressure $p = q \times G_f \times C_{pe} - q_i \times GC_{pi}$

Net force $F_w = p \times A_{ref}$

Roof load case 1 - Wind 0, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (-ve)	9.28	-1.30	18.28	-23.49	69.83	-1.64
B (-ve)	9.28	-0.70	18.28	-14.17	2.26	-0.03

Total vertical net force $F_{w,v}$ = **-1.67** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 1 - Wind 0, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	9.28	0.80	18.28	9.14	139.66	1.28
B	9.28	-0.50	18.28	-11.06	139.66	-1.54
C	9.28	-0.70	18.28	-14.17	44.45	-0.63
D	9.28	-0.70	18.28	-14.17	44.45	-0.63

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_0} = b \times H$ = **139.66** ft^2

Projected vertical area of roof $A_{vert\_r\_0}$ = **0.00** ft^2

Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_0} + p_{min\_r} \times A_{vert\_r\_0}$ = **2.23** kips

Leeward net force $F_l = F_{w,wB}$ = **-1.5** kips

Windward net force $F_w = F_{w,wA}$ = **1.3** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min})$ = **2.8** kips

Roof load case 2 - Wind 0, GC_{pi} -0.18, $-0c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (+ve)	9.28	-0.18	18.28	0.49	69.83	0.03
B (+ve)	9.28	-0.18	18.28	0.49	2.26	0.00

Total vertical net force $F_{w,v}$ = **0.04** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 2 - Wind 0, GC_{pi} -0.18, $-0c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	9.28	0.80	18.28	15.72	139.66	2.20
B	9.28	-0.50	18.28	-4.48	139.66	-0.63
C	9.28	-0.70	18.28	-7.59	44.45	-0.34
D	9.28	-0.70	18.28	-7.59	44.45	-0.34

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_0} = b \times H =$ **139.66** ft^2

Projected vertical area of roof $A_{vert\_r\_0} =$ **0.00** ft^2

Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_0} + p_{min\_r} \times A_{vert\_r\_0} =$ **2.23** kips

Leeward net force $F_l = F_{w,wB} =$ **-0.6** kips

Windward net force $F_w = F_{w,wA} =$ **2.2** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min}) =$ **2.8** kips

Roof load case 3 - Wind 90, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (-ve)	9.28	-0.99	18.28	-18.73	22.23	-0.42
B (-ve)	9.28	-0.85	18.28	-16.55	22.23	-0.37
C (-ve)	9.28	-0.55	18.28	-11.79	27.64	-0.33

Total vertical net force $F_{w,v} =$ **-1.11** kips

Total horizontal net force $F_{w,h} =$ **0.00** kips

Walls load case 3 - Wind 90, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	9.28	0.80	18.28	9.14	44.45	0.41
B	9.28	-0.24	18.28	-7.07	44.45	-0.31
C	9.28	-0.70	18.28	-14.17	139.66	-1.98
D	9.28	-0.70	18.28	-14.17	139.66	-1.98

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_90} = d \times H =$ **44.45** ft^2

Projected vertical area of roof $A_{vert\_r\_90} =$ **0.00** ft^2

Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_90} + p_{min\_r} \times A_{vert\_r\_90} =$ **0.71** kips

Leeward net force $F_l = F_{w,wB} =$ **-0.3** kips

Windward net force $F_w = F_{w,wA} =$ **0.4** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min}) =$ **0.7** kips

Roof load case 4 - Wind 90, GC_{pi} -0.18, $+c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (+ve)	9.28	-0.18	18.28	0.49	22.23	0.01
B (+ve)	9.28	-0.18	18.28	0.49	22.23	0.01
C (+ve)	9.28	-0.18	18.28	0.49	27.64	0.01

Total vertical net force $F_{w,v}$ = **0.04** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 4 - Wind 90, GC_{pi} -0.18, $+c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	9.28	0.80	18.28	15.72	44.45	0.70
B	9.28	-0.24	18.28	-0.48	44.45	-0.02
C	9.28	-0.70	18.28	-7.59	139.66	-1.06
D	9.28	-0.70	18.28	-7.59	139.66	-1.06

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_90} = d \times H$ = **44.45** ft^2

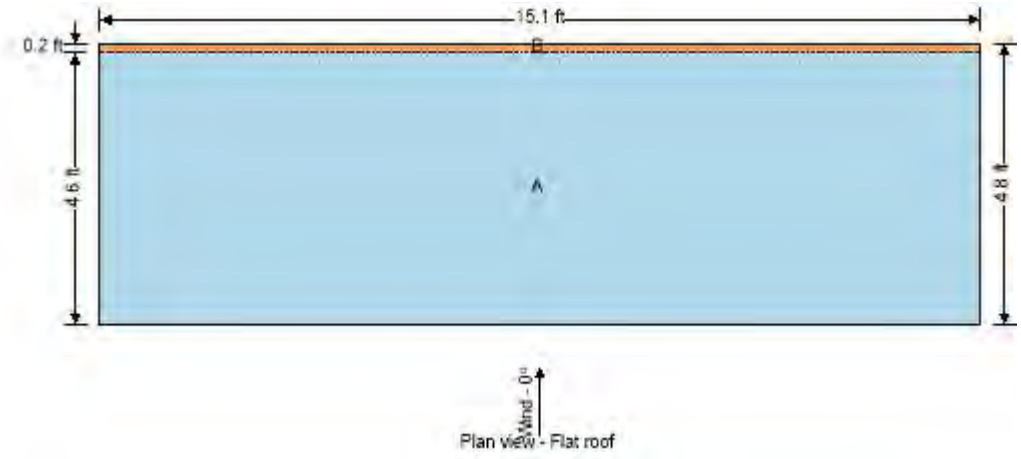
Projected vertical area of roof $A_{vert\_r\_90}$ = **0.00** ft^2

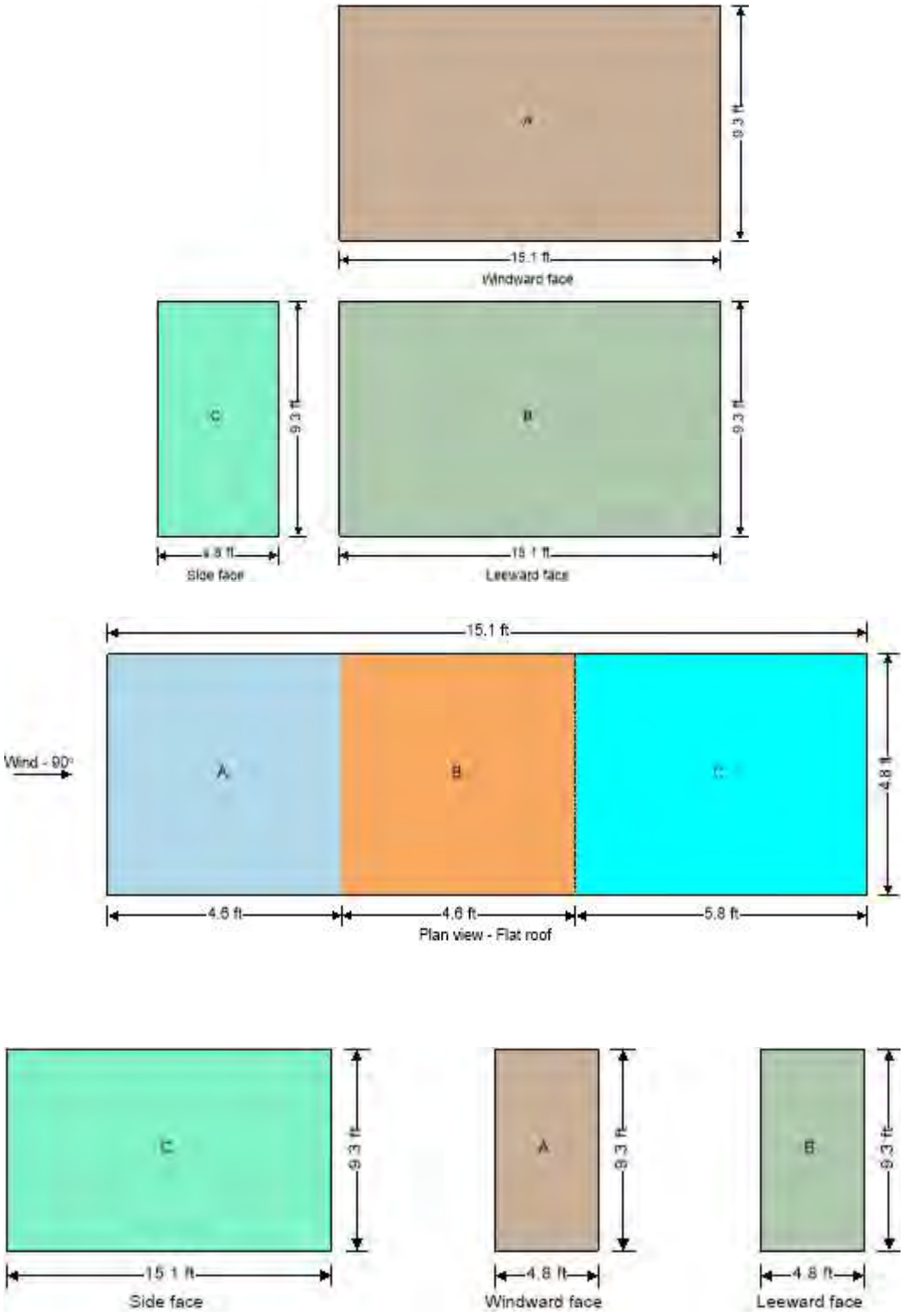
Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_90} + p_{min\_r} \times A_{vert\_r\_90}$ = **0.71** kips

Leeward net force $F_l = F_{w,wB}$ = **0.0** kips

Windward net force $F_w = F_{w,wA}$ = **0.7** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min})$ = **0.7** kips




A
9.3 ft
15.1 ft
Windward face
C
9.3 ft
B
9.3 ft
4.8 ft
Side face
15.1 ft
Leeward face
15.1 ft
Wind - 90°
A
B
C
4.8 ft
4.6 ft
4.6 ft
5.8 ft
Plan view - Flat roof
C
9.3 ft
15.1 ft
Side face
A
9.3 ft
4.8 ft
Windward face
B
9.3 ft
4.8 ft
Leeward face

1.2 SEISMIC LOADS

SEISMIC FORCES (ASCE 7-16)

Tedds calculation version 3.1.00

Site parameters

Site class	D, Soil properties not known
Mapped acceleration parameters (Section 11.4.2)	
at short period	S_S = **0.167**
at 1 sec period	S_1 = **0.077**
Site coefficientat short period (Table 11.4-1)	F_a = **1.600**
at 1 sec period (Table 11.4-2)	F_v = **2.400**

Spectral response acceleration parameters

at short period (Eq. 11.4-1)	$S_{MS} = F_a \times S_S$ = **0.267**
at 1 sec period (Eq. 11.4-2)	$S_{M1} = F_v \times S_1$ = **0.185**

Design spectral acceleration parameters (Sect 11.4.4)

at short period (Eq. 11.4-3)	$S_{DS} = 2 / 3 \times S_{MS}$ = **0.178**
at 1 sec period (Eq. 11.4-4)	$S_{D1} = 2 / 3 \times S_{M1}$ = **0.123**

Seismic design category

Occupancy category (Table 1-1)	II
Seismic design category based on short period response acceleration (Table 11.6-1)	B
Seismic design category based on 1 sec period response acceleration (Table 11.6-2)	B
Seismic design category	B

Approximate fundamental period

Height above base to highest level of building	h_n = **12.33** ft
From Table 12.8-2:	
Structure type	Steel moment frame
Building period parameter C_t	C_t = **0.028**
Building period parameter x	x = **0.80**
Approximate fundamental period (Eq 12.8-7)	$T_a = C_t \times (h_n)^x \times 1\text{sec} / (1\text{ft})^x$= **0.209** sec
Building fundamental period (Sect 12.8.2)	$T = T_a$ = **0.209** sec
Long-period transition period	T_L = **6** sec

Seismic response coefficient

Seismic force-resisting system (Table 12.2-1)	C_MOMENT_RESISTING_FRAME_SYSTEMS 4. Steel ordinary moment frames
Response modification factor (Table 12.2-1)	R = **3.5**
Seismic importance factor (Table 1.5-2)	I_e = **1.000**
Seismic response coefficient (Sect 12.8.1.1)	
Calculated (Eq 12.8-3)	$C_{s\_calc} = S_{DS} / (R / I_e)$ = **0.0509**
Maximum (Eq 12.8-3)	$C_{s\_max} = S_{D1} / ((T / 1\text{ sec}) \times (R / I_e))$ = **0.1685**
Minimum (Eq 9.5.5.2.1-3)	$C_{s\_min} = \max(0.044 \times S_{DS} \times I_e, 0.01)$ = **0.0100**

Seismic response coefficient	C_s = **0.0509**

Seismic base shear (Sect 12.8.1)

Effective seismic weight of the structure	W = **14.7** kips
Seismic response coefficient	C_s = **0.0509**
Seismic base shear (Eq 12.8-1)	$V = C_s \times W$ = **0.7** kips

2. SLAB ON GRADE DESIGN

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - Community Center

CODE REFERENCES

Calculations per ACI 318-14, IBC 2015, CBC 2016, ASCE 7-10
Load Combinations Used : ASCE 7-16

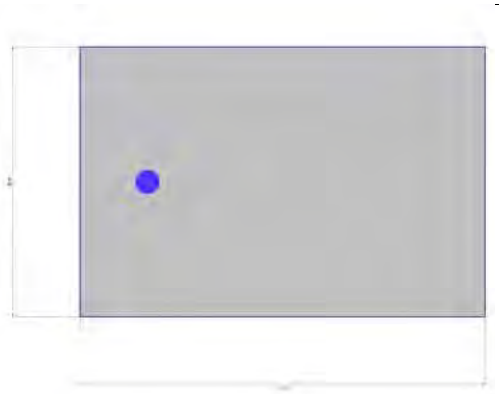
Material Properties

f'c	=	3.0 ksi	ϕ Phi Values	Flexure :	0.90
fr = f'c$^{1/2}$ * 7.50	=	410.792 psi		Shear :	0.750
ψ Density	=	145.0 pcf	β_1	=	0.850
λ Lt Wt Factor	=	1.0			
Elastic Modulus	=	3,122.0 ksi			

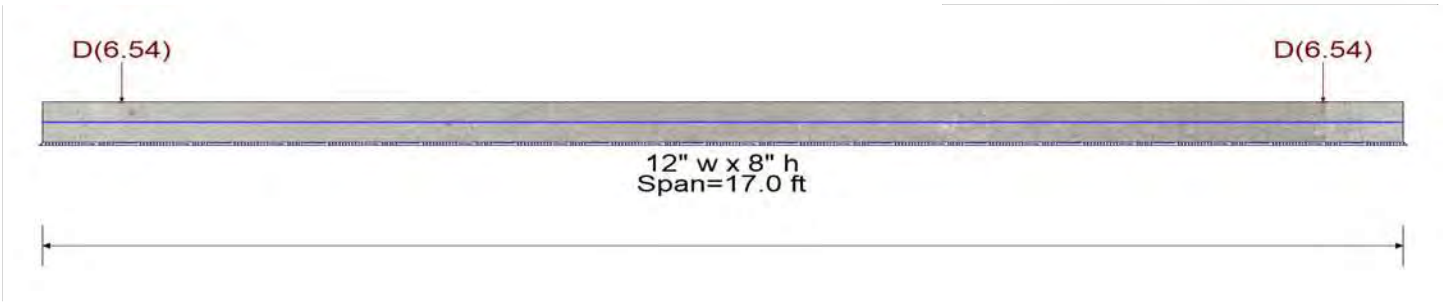
Soil Subgrade Modulus = 100.0 psi / (inch deflection)

Load Combination ASCE 7-16

fy - Main Rebar	=	60.0 ksi	Fy - Stirrups	=	40.0 ksi
E - Main Rebar	=	29,000.0 ksi	E - Stirrups	=	29,000.0 ksi
			Stirrup Bar Size #	=	# 4
			Number of Resisting Legs Per Stirrup		2



Beam is supported on an elastic foundation,



Cross Section & Reinforcing Details

Rectangular Section, Width = 12.0 in, Height = 8.0 in
Span #1 Reinforcing....
1-#6 at 4.0 in from Top, from 0.0 to 17.0 ft in this span

Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Point Load : D = 6.540 k @ 1.0 ft
Point Load : D = 6.540 k @ 16.0 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.747 : 1	Maximum Deflection	
Section used for this span		Typical Section	Max Downward L+Lr+S Deflection	0.000 in
Mu : Applied		-5.277 k-ft	Max Upward L+Lr+S Deflection	0.000 in
Mn * Phi : Allowable		7.066 k-ft	Max Downward Total Deflection	0.190 in
Load Combination		D Only	Max Upward Total Deflection	-0.038 in
Location of maximum on span		5.000 ft		
Span # where maximum occurs		Span # 1		
Maximum Soil Pressure	=	2.743 ksf at 17.00 ft LdComb: D Only		
Allowable Soil Pressure	=	1.50 ksf EXCEEDED!		

Bearing pressures checked in Mathcad for full slab area

Shear Stirrup Requirements

Entire Beam Span Length : Vu < PhiVc/2, Req'd Vs = Not Reqd, use stirrups spaced at 0.000 in

Maximum Forces & Stresses for Load Combinations

Load Combination / Segment Length	Span #	Location (ft) in Span	Bending Stress Results (k-ft) Mu : Max	Phi*Mnx	Stress Ratio
MAXimum Bending Envelope					
Span # 1	1	16.000	1.15	7.07	0.16
D Only					
Span # 1	1	16.000	1.15	7.07	0.16

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - Community Center

Overall Maximum Deflections - Unfactored Loads

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
Span 1	1	0.1905	17.000	Span 1	-0.0379	8.500

Detailed Shear Information

Load Combination	Span Number	Distance (ft)	'd' (in)	Vu Actual	(k) Design	Mu (k-ft)	d*Vu/Mu	Phi*Vc (k)	Comment	Phi*Vs (k)	Spacing (in) Req'd	Spacing (in) Suggest
D Only	1	0.00	4.00	0.25	0.25	0.00	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.20	4.00	0.72	0.72	0.05	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.40	4.00	1.17	1.17	0.19	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.60	4.00	1.61	1.61	0.43	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.80	4.00	2.02	2.02	0.75	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	1.00	4.00	2.42	2.42	1.15	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.20	4.00	-3.74	3.74	0.33	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.40	4.00	-3.39	3.39	0.42	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.60	4.00	-3.05	3.05	1.10	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.80	4.00	-2.73	2.73	1.71	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.00	4.00	-2.44	2.44	2.25	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.20	4.00	-2.16	2.16	2.74	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.40	4.00	-1.90	1.90	3.17	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.60	4.00	-1.66	1.66	3.55	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.80	4.00	-1.43	1.43	3.88	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.00	4.00	-1.22	1.22	4.17	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.20	4.00	-1.04	1.04	4.41	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.40	4.00	-0.86	0.86	4.62	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.60	4.00	-0.70	0.70	4.79	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.80	4.00	-0.56	0.56	4.93	0.91	4.50	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.00	4.00	-0.43	0.43	5.04	0.69	4.31	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.20	4.00	-0.32	0.32	5.13	0.50	4.16	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.40	4.00	-0.22	0.22	5.20	0.34	4.03	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.60	4.00	-0.13	0.13	5.24	0.20	3.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.80	4.00	-0.06	0.06	5.27	0.09	3.82	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.00	4.00	0.01	0.01	5.28	0.01	3.76	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.20	4.00	0.06	0.06	5.28	0.09	3.82	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.40	4.00	0.11	0.11	5.26	0.16	3.88	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.60	4.00	0.14	0.14	5.24	0.21	3.92	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.80	4.00	0.17	0.17	5.21	0.26	3.96	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.00	4.00	0.18	0.18	5.18	0.28	3.98	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.20	4.00	0.19	0.19	5.14	0.30	4.00	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.40	4.00	0.20	0.20	5.10	0.31	4.00	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.60	4.00	0.20	0.20	5.07	0.31	4.00	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.80	4.00	0.19	0.19	5.03	0.30	3.99	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.00	4.00	0.18	0.18	4.99	0.28	3.98	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.20	4.00	0.16	0.16	4.95	0.26	3.96	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.40	4.00	0.14	0.14	4.92	0.22	3.93	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.60	4.00	0.11	0.11	4.89	0.19	3.90	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.80	4.00	0.09	0.09	4.87	0.14	3.86	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.00	4.00	0.06	0.06	4.85	0.10	3.83	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.20	4.00	0.03	0.03	4.84	0.05	3.79	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.40	4.00	0.00	0.00	4.84	0.00	3.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.60	4.00	-0.03	0.03	4.84	0.05	3.79	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.80	4.00	-0.06	0.06	4.84	0.10	3.83	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.00	4.00	-0.09	0.09	4.85	0.14	3.86	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.20	4.00	-0.11	0.11	4.87	0.19	3.90	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.40	4.00	-0.14	0.14	4.89	0.22	3.93	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.60	4.00	-0.16	0.16	4.92	0.26	3.96	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.80	4.00	-0.18	0.18	4.95	0.28	3.98	Vu < PhiVc/2	Not Reqd	0.00	0.00

Detailed Shear Information

Load Combination	Span Number	Distance (ft)	'd' (in)	Vu Actual	(k) Design	Mu (k-ft)	d*Vu/Mu	Phi*Vc (k)	Comment	Phi*Vs (k)	Spacing (in) Req'd	Spacing (in) Suggest
D Only	1	10.00	4.00	-0.19	0.19	4.99	0.30	4.00	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.20	4.00	-0.20	0.20	5.03	0.31	4.00	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.40	4.00	-0.20	0.20	5.07	0.31	4.01	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.60	4.00	-0.19	0.19	5.10	0.31	4.00	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.80	4.00	-0.18	0.18	5.14	0.29	3.98	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.00	4.00	-0.17	0.17	5.18	0.26	3.96	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.20	4.00	-0.14	0.14	5.21	0.22	3.92	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.40	4.00	-0.11	0.11	5.24	0.16	3.88	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.60	4.00	-0.06	0.06	5.26	0.09	3.82	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.80	4.00	-0.01	0.01	5.28	0.01	3.76	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.00	4.00	0.06	0.06	5.28	0.09	3.82	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.20	4.00	0.13	0.13	5.27	0.20	3.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.40	4.00	0.22	0.22	5.24	0.34	4.02	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.60	4.00	0.32	0.32	5.20	0.49	4.15	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.80	4.00	0.43	0.43	5.13	0.68	4.31	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.00	4.00	0.56	0.56	5.04	0.89	4.48	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.20	4.00	0.70	0.70	4.93	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.40	4.00	0.86	0.86	4.79	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.60	4.00	1.04	1.04	4.62	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.80	4.00	1.22	1.22	4.41	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.00	4.00	1.43	1.43	4.17	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.20	4.00	1.66	1.66	3.88	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.40	4.00	1.90	1.90	3.55	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.60	4.00	2.16	2.16	3.17	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.80	4.00	2.44	2.44	2.74	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	15.00	4.00	2.73	2.73	2.25	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	15.20	4.00	3.05	3.05	1.71	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	15.40	4.00	3.39	3.39	1.10	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	15.60	4.00	3.74	3.74	0.42	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	15.80	4.00	4.12	4.12	0.33	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	16.00	4.00	4.52	4.52	1.15	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	16.20	4.00	-1.61	1.61	0.75	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	16.40	4.00	-1.17	1.17	0.43	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	16.60	4.00	-0.72	0.72	0.19	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	16.80	4.00	-0.25	0.25	0.05	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00

3. ANCHOR DESIGN

Company:	Kimley-Horn and Associates, Inc	Page:	1
Address:	111 East Broadway, 600	Specifier:	J.Goodsell
Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	Community Center	Date:	4/30/2020
Fastening point:			

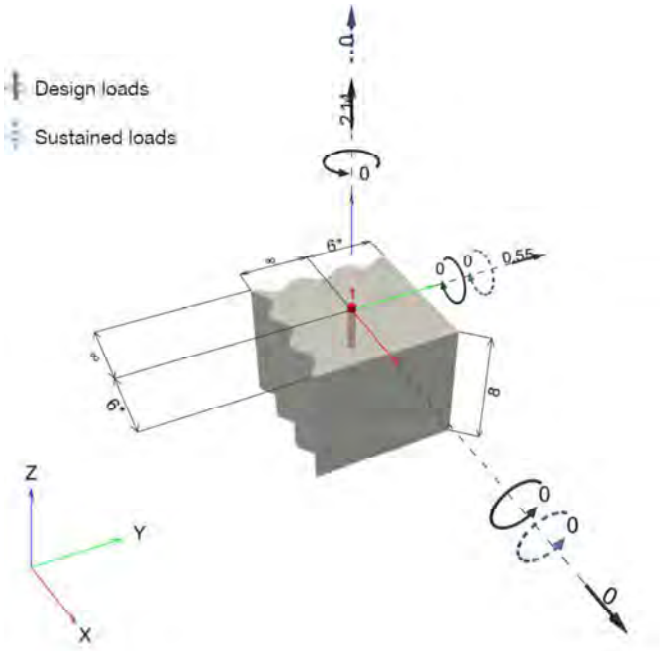
Specifier's comments:

1 Input data



Anchor type and diameter:	**HIT-HY 200 + Rebar A 615 Gr.40 #4**
Item number:	not available (element) / 2022793 HIT-HY 200-R (adhesive)
Effective embedment depth:	$h_{ef,opti}$ = 2.750 in. ($h_{ef,limit}$ = 6.750 in.)
Material:	ASTM A 615 GR.40
Evaluation Service Report:	ESR-3187
Issued I Valid:	4/1/2019 | 3/1/2020
Proof:	Design Method ACI 318-14 / Chem
Stand-off installation:	
Profile:	
Base material:	cracked concrete, 3000, f_c' = 3,000 psi; h = 8.000 in., Temp. short/long: 32/32 °F
Installation:	**hammer drilled hole, Installation condition: Dry**
Reinforcement:	tension: condition B, shear: condition B; no supplemental splitting reinforcement present edge reinforcement: none or < No. 4 bar

Geometry [in.] & Loading [kip, ft.kip]



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Design:	Community Center	Date:	4/30/2020
Fastening point:			

1.1 Design results

Case	Description	Forces [kip] / Moments [ft.kip]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = 2.140; V_x = 0.000; V_y = 0.550; M_x = 0.00000; M_y = 0.00000; M_z = 0.00000; N_{sus} = 0.000; $M_{x,sus}$ = 0.00000; $M_{y,sus}$ = 0.00000;	no	78

2 Load case/Resulting anchor forces

Anchor reactions [kip]
Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	2.140	0.550	0.000	0.550

max. concrete compressive strain: - [‰]
max. concrete compressive stress: - [psi]
resulting tension force in (x/y)=(0.000/0.000): 0.000 [kip]
resulting compression force in (x/y)=(0.000/0.000): 0.000 [kip]

3 Tension load

	Load N_{ua} [kip]	Capacity ϕN_n [kip]	Utilization $\beta_N = N_{ua}/\phi N_n$	Status
Steel Strength*	2.140	7.800	28	OK
Bond Strength**	2.140	3.088	70	OK
Sustained Tension Load Bond Strength*	N/A	N/A	N/A	N/A
Concrete Breakout Failure**	2.140	2.760	78	OK

* highest loaded anchor **anchor group (anchors in tension)

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Fastening point:			

3.1 Steel Strength

N_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi N_{sa} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,N}$ [in.^{2}]	f_{uta} [psi]
0.20	60,000

Calculations

N_{sa} [kip]
12.000

Results

N_{sa} [kip]	ϕ_{steel}	ϕN_{sa} [kip]	N_{ua} [kip]
12.000	0.650	7.800	2.140

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Fastening point:			

3.2 Bond Strength

$N_a = \left(\frac{A_{Na}}{A_{Na0}}\right) \psi_{ed,Na} \psi_{cp,Na} N_{ba}$ — ACI 318-14 Eq. (17.4.5.1a)

$\phi N_a \geq N_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Na} see ACI 318-14, Section 17.4.5.1, Fig. R 17.4.5.1(b)

$A_{Na0} = (2 c_{Na})^2$ — ACI 318-14 Eq. (17.4.5.1c)

$c_{Na} = 10 d_a \sqrt{\frac{\tau_{uncr}}{1100}}$ — ACI 318-14 Eq. (17.4.5.1d)

$\psi_{ed,Na} = 0.7 + 0.3 \left(\frac{c_{a,min}}{c_{Na}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.5.4b)

$\psi_{cp,Na} = \text{MAX}\left(\frac{c_{a,min}}{c_{ac}}, \frac{c_{Na}}{c_{ac}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.5.5b)

$N_{ba} = \lambda_a \cdot \tau_{k,c} \cdot \pi \cdot d_a \cdot h_{ef}$ — ACI 318-14 Eq. (17.4.5.2)

Variables

$\tau_{k,c,uncr}$ [psi]	d_a [in.]	h_{ef} [in.]	$c_{a,min}$ [in.]	$\alpha_{overhead}$	$\tau_{k,c}$ [psi]
1,589	0.500	2.750	6.000	1.000	1,100

c_{ac} [in.]	λ_a
4.136	1.000

Calculations

c_{Na} [in.]	A_{Na} [in.^{2}]	A_{Na0} [in.^{2}]	$\psi_{ed,Na}$
5.983	143.17	143.17	1.000

$\psi_{cp,Na}$	N_{ba} [kip]
1.000	4.751

Results

N_a [kip]	ϕ_{bond}	ϕN_a [kip]	N_{ua} [kip]
4.751	0.650	3.088	2.140

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Fastening point:			

3.3 Concrete Breakout Failure

$N_{cb} = \left(\frac{A_{Nc}}{A_{Nc0}}\right) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b$ ACI 318-14 Eq. (17.4.2.1a)

$\phi N_{cb} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$A_{Nc0} = 9 h_{ef}^2$ ACI 318-14 Eq. (17.4.2.1c)

$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5h_{ef}}\right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.5b)

$\psi_{cp,N} = MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}}\right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.7b)

$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5}$ ACI 318-14 Eq. (17.4.2.2a)

Variables

h_{ef} [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$	c_{ac} [in.]	k_c	λ_a	f'_c [psi]
2.750	6.000	1.000	4.136	17	1.000	3,000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
68.06	68.06	1.000	1.000	4.246

Results

N_{cb} [kip]	$\phi_{concrete}$	ϕN_{cb} [kip]	N_{ua} [kip]
4.246	0.650	2.760	2.140

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Fastening point:			

4 Shear load

	Load V_{ua} [kip]	Capacity ϕV_n [kip]	Utilization $\beta_V = V_{ua}/\phi V_n$	Status
Steel Strength*	0.550	4.320	13	OK
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength (Concrete Breakout Strength controls)**	0.550	5.945	10	OK
Concrete edge failure in direction y+**	0.550	2.773	20	OK

* highest loaded anchor **anchor group (relevant anchors)

4.1 Steel Strength

V_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi V_{steel} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,V}$ [in.^{2}]	f_{uta} [psi]
0.20	60,000

Calculations

V_{sa} [kip]
7.200

Results

V_{sa} [kip]	ϕ_{steel}	ϕV_{sa} [kip]	V_{ua} [kip]
7.200	0.600	4.320	0.550

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Fastening point:			

4.2 Pryout Strength (Concrete Breakout Strength controls)

$V_{cp} = k_{cp} \left[\left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b \right]$ ACI 318-14 Eq. (17.5.3.1a)

$\phi V_{cp} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$A_{Nc0} = 9 h_{ef}^2$ ACI 318-14 Eq. (17.4.2.1c)

$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}} \right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.5b)

$\psi_{cp,N} = MAX \left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}} \right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.7b)

$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5}$ ACI 318-14 Eq. (17.4.2.2a)

Variables

k_{cp}	h_{ef} [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$
2	2.750	6.000	1.000

c_{ac} [in.]	k_c	λ_a	f'_c [psi]
4.136	17	1.000	3,000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
68.06	68.06	1.000	1.000	4.246

Results

V_{cp} [kip]	$\phi_{concrete}$	ϕV_{cp} [kip]	V_{ua} [kip]
8.493	0.700	5.945	0.550

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4.3 Concrete edge failure in direction y+

$V_{cb} = \left(\frac{A_{Vc}}{A_{Vc0}}\right) \psi_{ed,V} \psi_{c,V} \psi_{h,V} \psi_{parallel,V} V_b$ — ACI 318-14 Eq. (17.5.2.1a)

$\phi V_{cb} \geq V_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Vc} see ACI 318-14, Section 17.5.2.1, Fig. R 17.5.2.1(b)

$A_{Vc0} = 4.5 c_{a1}^2$ — ACI 318-14 Eq. (17.5.2.1c)

$\psi_{ed,V} = 0.7 + 0.3\left(\frac{c_{a2}}{1.5c_{a1}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.5.2.6b)

$\psi_{h,V} = \sqrt{\frac{1.5c_{a1}}{h_a}} \geq 1.0$ — ACI 318-14 Eq. (17.5.2.8)

$V_b = \left(7\left(\frac{l_e}{d_a}\right)^{0.2}\sqrt{d_a}\right) \lambda_a \sqrt{f_c'} c_{a1}^{1.5}$ — ACI 318-14 Eq. (17.5.2.2a)

Variables

c_{a1} [in.]	c_{a2} [in.]	$\psi_{c,V}$	h_a [in.]	l_e [in.]
6.000	6.000	1.000	8.000	2.750

λ_a	d_a [in.]	f_c' [psi]	$\psi_{parallel,V}$
1.000	0.500	3,000	1.000

Calculations

A_{Vc} [in.^{2}]	A_{Vc0} [in.^{2}]	$\psi_{ed,V}$	$\psi_{h,V}$	V_b [kip]
120.00	162.00	0.900	1.061	5.603

Results

V_{cb} [kip]	$\phi_{concrete}$	ϕV_{cb} [kip]	V_{ua} [kip]
3.962	0.700	2.773	0.550

5 Combined tension and shear loads

β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status
0.775	0.198	5/3	73	OK

$\beta_{NV} = \beta_N^{\zeta} + \beta_V^{\zeta} <= 1$

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Fastening point:			

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (AS 5216:2018, ETAG 001/Annex C, EOTA TR029 etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered - the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with CBFEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- Design Strengths of adhesive anchor systems are influenced by the cleaning method. Refer to the INSTRUCTIONS FOR USE given in the Evaluation Service Report for cleaning and installation instructions.
- For additional information about ACI 318 strength design provisions, please go to https://submittals.us.hilti.com/PROFISAnchorDesignGuide/
- Installation of Hilti adhesive anchor systems shall be performed by personnel trained to install Hilti adhesive anchors. Reference ACI 318-14, Section 17.8.1.

Fastening meets the design criteria!

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Design:	Community Center	Date:	4/30/2020
Fastening point:			

7 Installation data

Anchor type and diameter: HIT-HY 200 + Rebar A 615 Gr.40 #4

Profile: -

Item number: not available (element) / 2022793 HIT-HY 200-R (adhesive)

Hole diameter in the fixture: -

Installation torque: -

Plate thickness (input): -

Hole diameter in the base material: 0.625 in.

Hole depth in the base material: 2.750 in.

Drilling method: Hammer drilled

Minimum thickness of the base material: 4.000 in.

Cleaning: Compressed air cleaning of the drilled hole according to instructions for use is required

#4 Rebar with Hilti HIT-HY 200 Safe Set System

7.1 Recommended accessories

Drilling	Cleaning	Setting
• Suitable Rotary Hammer • Properly sized drill bit	• Compressed air with required accessories to blow from the bottom of the hole • Proper diameter wire brush	• Dispenser including cassette and mixer • For deep installations, a piston plug is necessary • Torque wrench

Coordinates Anchor in.

Anchor	x	y	c_{-x}	c_{+x}	c_{-y}	c_{+y}
1	0.000	0.000	-	6.000	-	6.000

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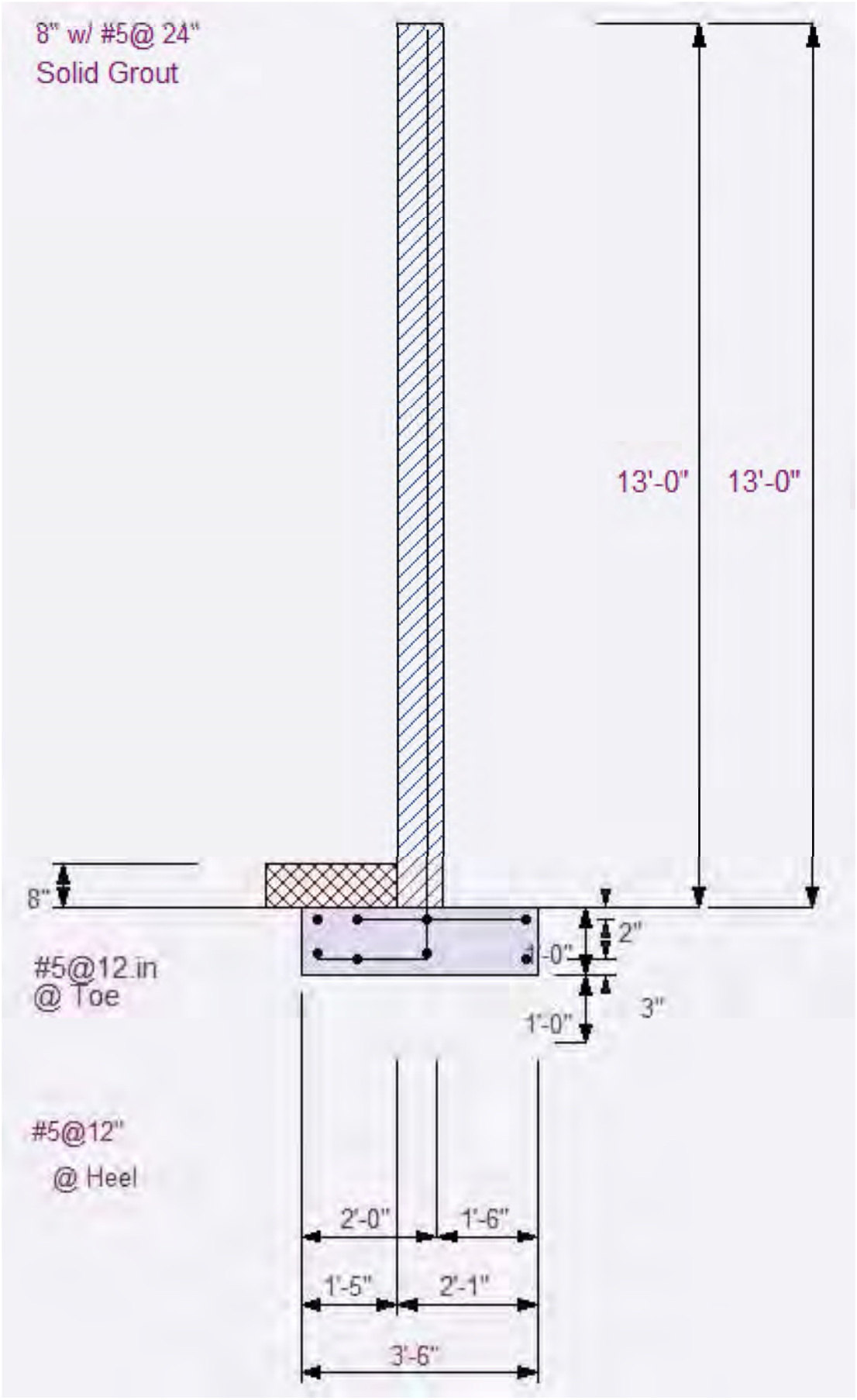
4. SCREEN WALL DESIGN


8" w/ #5@ 24"
Solid Grout
13'-0"
13'-0"
8"
2"
#5@12 in
@ Toe
1'-0"
3"
#5@12"
@ Heel
2'-0"
1'-6"
1'-5"
2'-1"
3'-6"

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Cantilevered Retaining Wall

Code: IBC 2018,ACI 318-14,TMS 402-16

Criteria



Retained Height	=	0.00 ft
Wall height above soil	=	13.00 ft
Slope Behind Wall	=	0.00
Height of Soil over Toe	=	8.00 in
Water height over heel	=	0.0 ft

Load Factors

Building Code	IBC 2018,ACI
Dead Load	1.200
Live Load	1.600
Earth, H	1.600
Wind, W	1.000
Seismic, E	1.000

Soil Data and Lateral Earth Pressure

Allow Soil Bearing	=	1,500.0 psf	Soil Density, Heel	=	100.00 pcf
Equivalent Fluid Pressure Method			Soil Density, Toe	=	0.00 pcf
Active Heel Pressure	=	45.0 psf/ft	Footing||Soil Friction	=	0.250
	=		Soil height to ignore for passive pressure	=	12.00 in
Passive Pressure	=	100.0 psf/ft			

Surcharge Loads

Surcharge Over Heel	=	0.0 psf	Surcharge Over Toe	=	0.0
Used To Resist Sliding & Overturning			Used for Sliding & Overturning		

Axial Load Applied to Stem

Axial Dead Load	=	0.0 lbs	Axial Load Eccentricity	=	0.0 in
Axial Live Load	=	0.0 lbs			

Lateral Load Applied to Stem

Lateral Load	=	0.0 #/ft
...Height to Top	=	0.00 ft
...Height to Bottom	=	0.00 ft
Load Type	=	Wind (W) (Service Level)

Wind on Exposed Stem

Wind on Exposed Stem (Service Level)	=	14.4 psf

Adjacent Footing Load

Adjacent Footing Load	=	0.0 lbs	Footing Type		Line Load
Footing Width	=	0.00 ft	Base Above/Below Soil		
Eccentricity	=	0.00 in	at Back of Wall	=	0.0 ft
Wall to Ftg CL Dist	=	0.00 ft	Poisson's Ratio	=	0.300

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Cantilevered Retaining Wall

Code: IBC 2018,ACI 318-14,TMS 402-16

Wall Design Summary

Stability Ratios

Overturning	=	2.01 OK
Sliding	=	3.39 OK

Soil Bearing

Total Bearing Load	=	1,617 lbs
...resultant ecc.	=	10.48 in
Soil Pressure @ Toe	=	1,229 psf OK
Soil Pressure @ Heel	=	0 psf OK
Allowable	=	1,500 psf
Soil Pressure Less Than Allowable		
ACI Factored @ Toe	=	1,720 psf
ACI Factored @ Heel	=	0 psf
Footing Shear @ Toe	=	11.5 psi OK
Footing Shear @ Heel	=	1.3 psi OK
Allowable	=	82.2 psi

Sliding

Resisting Forces

Vertical Forces	Force
Soil Over Heel (above water table, if any)	0.0 lbs
Soil Over Heel (below water table, if any)	0.0
Water Over Heel	0.0
Buoyant Force	0.0
Sloped Soil Over Heel	0.0
Surcharge Over Heel	0.0
Adjacent Footing Load	0.0
Axial Dead Load on Stem	0.0
Axial Live Load on Stem *	Omit
Soil Over Toe	0.0
Surcharge Over Toe	0.0
Stem Weight(s)	1,092.0
Earth @ Stem Transitions	0.0
Footing Weight	525.2
Key Weight	0.0
Vert. Component **	0.0
Total Vertical Loads	1,617.2 lbs

Sliding Forces

Lateral Forces	Force
Heel Active Pressure (above water table, if any)	22.5 lbs
Heel Active Pressure (below water table, if any)	0.0
Hydrostatic Force	0.0
* Heel Active Pressure	22.5
Surcharge over Heel	0.0
Adjacent Footing	0.0
Surcharge Over Toe	0.0
Load @ Stem Above Soil	187.2
Added Lateral Load	0.0
Seismic Load	0.0
Seismic-Self-weight	0.0
Lateral on Key	0.0
Totals =	209.7 lbs

*Includes water table effect

* Axial live load NOT included in total displayed , or used for overturning or sliding resistance, but is included for soil pressure calculations.

Sliding Calcs

Lateral Sliding Force	=		209.7 lbs
less 100% Passive Force	=	-	305.6 lbs
less 100% Friction Force	=	-	404.3 lbs
Added Force Req'd	=		0.0 lbs OK
....for 1.5 Stability	=		0.0 lbs OK

Vertical component of active lateral soil pressure IS NOT considered in the calculation of soil bearing pressures.

Overturning

Resisting Moments

Resisting Moments	Force		Distance		Moment
Soil Over Heel (above water table, if any)	0.0	lbs	2.79	ft	0.0ft-#
Soil Over Heel (below water table, if any)	0.0				
Water Table	0.0				
Soil Over Heel	0.0		2.79		0.0
Sloped Soil Over Heel	0.0				
Surcharge Over Heel	0.0				
Adjacent Footing Load	0.0				
Axial Dead Load on Stem	0.0				
Axial Live Load on Stem *	0.0				
Soil Over Toe	0.0		0.71		
Surcharge Over Toe	0.0				
Stem Weight(s)	1,092.0		1.75		1,911.4
Earth @ Stem Transitions	0.0				
Footing Weight	525.2		1.75		919.3
Key Weight	0.0		2.00		
Vert. Component	0.0				
Total Vertical Loads	1,617.2	lbs			
Resisting Moment					**2,830.6** ft-#
Eccentricity					**10.5** in

* Axial live load NOT included in total displayed, or used for overturning or sliding resistance, but is included for soil pressure calculations.

Overturning

Overturning Moments

Overturning Moments	Force		Distance		Moment
Heel Active Pressure (above water table, if any)	22.5	lbs	0.33	ft	7.5 ft-#
Heel Active Pressure (below water table, if any)	0.0				
Hydrostatic Force	0.0				
Buoyant Force	0.0				
Surcharge over Heel	0.0				
Adjacent Footing	0.0				
Surcharge Over Toe	0.0				
Load @ Stem Above Soil	187.2		7.50		1,404.0
Added Lateral Load	0.0				
Seismic Load	0.0				
Seismic-Self-weight	0.0				
Totals =	209.7	lbs			
Overturning Moment					1,411.5 ft-#

Stem Design Summary

			Bottom
			Stem OK
Design Height Above Ftg	ft	=	0.00
Wall Material Above "Ht"		=	Masonry
Design Method		=	LRFD
Thickness		=	8.00
Rebar Size		=	# 5
Rebar Spacing		=	24.00
Rebar Placed at		=	Edge
Design Data			
fb/FB + fa/Fa		=	**0.356**
Total Force @ Section			
Service Level	lbs	=	
Strength Level	lbs	=	187.2
Moment....Actual			
Service Level	ft-#	=	
Strength Level	ft-#	=	1,216.8
Moment.....Allowable		=	3,411.6
Shear.....Actual			
Service Level	psi	=	
Strength Level	psi	=	2.0
Shear.....Allowable	psi	=	69.7
Anet	in2	=	91.50
Rebar Depth 'd'	in	=	5.25
Masonry Data			
f'm	psi	=	1,500
Fy	psi	=	60,000
Solid Grouting		=	Yes
Modular Ratio 'n'		=	21.48
Wall Weight	psf	=	84.0
Equiv. Solid Thick.	in	=	7.60
Masonry Block Type		=	Normal Weight
Masonry Design Method		=	LRFD
Concrete Data			
f'c	psi	=	
Fy	psi	=	

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Cantilevered Retaining Wall

Code: IBC 2018,ACI 318-14,TMS 402-16

Footing Data

Toe Width	=	1.42 ft	f'c	=	3,000	psi
Heel Width	=	2.08	Fy	=	60,000	psi
Total Footing Width	=	3.50 ft	Footing Concrete Density	=	150.00	pcf
Footing Thickness	=	12.00 in	Min. As %	=	0.0018	
Key Width	=	0.00 in	Rebar Cover @ Top	=	2.00	in
Key Depth	=	12.00 in	@ Bottom	=	3.00	in
Key Distance from Toe	=	2.00 ft				

Footing Design Results

		Toe	Heel	
Factored Pressure	=	1,720	0	psf
Mu' : Upward	=	17,003	216	ft-#
Mu' : Downward	=	3,869	2,680	ft-#
Mu: Design	=	327	-426	ft-#
Actual 1-Way Shear	=	11.46	1.31	psi
Allow 1-Way Shear	=	43.82	43.82	psi

Toe Reinforcing	=	# 5 @ 12.00 in
Heel Reinforcing	=	# 5 @ 12.00 in
Key Reinforcing	=	None Spec'd

Other Acceptable Sizes & Spacings

Toe: Not req'd: Mu < phi*5*lambda*sqrt(f'c)*Sm

Heel: Not req'd: Mu < phi*5*lambda*sqrt(f'c)*Sm

Key: No key defined

Min footing T&S reinf Area	0.91	in2
Min footing T&S reinf Area per fc	0.26	in2 /ft

If one layer of horizontal bars:	If two layers of horizontal bars:
#4@ 9.26 in	#4@ 18.52 in
#5@ 14.35 in	#5@ 28.70 in
#6@ 20.37 in	#6@ 40.74 in

Footing Torsion, Tu	=	0.00 ft-lbs
Footing Allow. Torsion, phi Tu	=	0.00 ft-lbs

If torsion exceeds allowable, provide supplemental design for footing torsion.

Tilt

Horizontal Deflection at Top of Wall due to settlement of soil

(Deflection due to wall bending not considered)

Soil Spring Reaction Modulus	250.0	pci
Horizontal Defl @ Top of Wall (approximate only)	0.127	in

The above calculation is not valid if the heel soil bearing pressure exceeds that of the toe.

because the wall would then tend to rotate into the retained soil.

5. APPENDIX

5.1 WIND LOADS

Hazards by Location

Search Information

Address: 201 E Centre Ave, Buckeye, AZ 85326, USA

Coordinates: 33.36614169999999, -112.5891825

Elevation: 871 ft

Timestamp: 2020-03-12T15:49:15.752Z

Hazard Type: Wind



ASCE 7-16

MRI 10-Year	70 mph
MRI 25-Year	77 mph
MRI 50-Year	82 mph
MRI 100-Year	87 mph
Risk Category I	95 mph
Risk Category II	101 mph
Risk Category III	108 mph
Risk Category IV	112 mph

ASCE 7-10

MRI 10-Year	76 mph
MRI 25-Year	84 mph
MRI 50-Year	90 mph
MRI 100-Year	96 mph
Risk Category I	105 mph
Risk Category II	115 mph
Risk Category III-IV	120 mph

ASCE 7-05

ASCE 7-05 Wind Speed	90 mph

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area – in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher. NOTE: For queries near wind-borne debris region boundaries, the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne debris region.

Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.

While the information presented on this website is believed to be correct, ATC and its sponsors and contributors assume no responsibility or liability for its accuracy. The material presented in the report should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. ATC does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the report provided by this website. Users of the information from this website assume all liability arising from such use. Use of the output of this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for t

this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the report.

5.2 SEISMIC LOADS

Hazards by Location

Search Information



Address: 201 E Centre Ave, Buckeye, AZ 85326, USA

Coordinates: 33.36614169999999, -112.5891825

Elevation: 871 ft

Timestamp: 2020-03-12T15:50:02.995Z

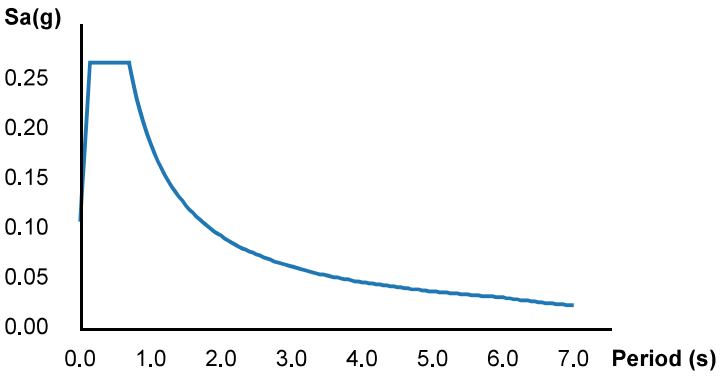
Hazard Type: Seismic

Reference Document: ASCE7-16

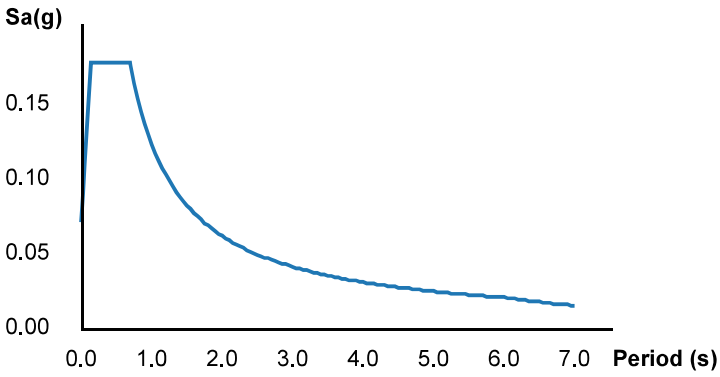
Risk Category: II

Site Class: D-default

MCER Horizontal Response Spectrum



Design Horizontal Response Spectrum



Basic Parameters

Name	Value	Description
S_S	0.167	MCE_R ground motion (period=0.2s)
S_1	0.077	MCE_R ground motion (period=1.0s)
S_{MS}	0.267	Site-modified spectral acceleration value
S_{M1}	0.185	Site-modified spectral acceleration value
S_{DS}	0.178	Numeric seismic design value at 0.2s SA
S_{D1}	0.123	Numeric seismic design value at 1.0s SA

Additional Information

Name	Value	Description
SDC	B	Seismic design category
F_a	1.6	Site amplification factor at 0.2s
F_v	2.4	Site amplification factor at 1.0s

CR_S	0.938	Coefficient of risk (0.2s)
CR_1	0.944	Coefficient of risk (1.0s)
PGA	0.073	MCE_G peak ground acceleration
F_{PGA}	1.6	Site amplification factor at PGA
PGA_M	0.117	Site modified peak ground acceleration
T_L	6	Long-period transition period (s)
SsRT	0.167	Probabilistic risk-targeted ground motion (0.2s)
SsUH	0.178	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.077	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.082	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGAd	0.5	Factored deterministic acceleration value (PGA)

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are provided by the U.S. Geological Survey Seismic Design Web Services.

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5.3 GENERATOR SPECIFICATIONS

SG250 | 14.2L | 250 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency and Non-Emergency

GENERAC | INDUSTRIAL POWER

DEMAND RESPONSE READY

Standby Power Rating
250 kW, 313 kVA, 60 Hz

Demand Response Rating
250 kW, 313 kVA, 60 Hz

Prime Power Rating
225 kW, 281 kVA, 60 Hz

ISO 9001:2008

USA ENGINEERED & BUILT* *Assembled in the USA using domestic and foreign parts

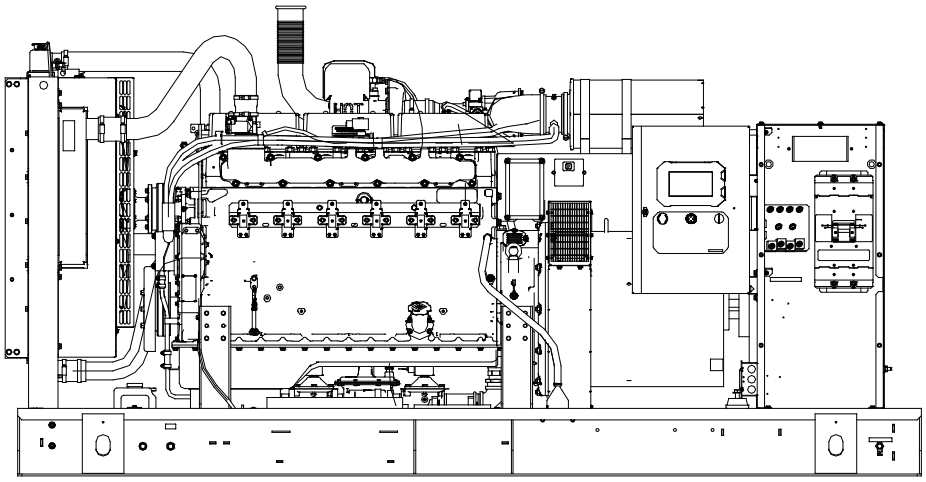


Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL6200, UL1236, UL489
- CSA C22.2
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41
- IBC 2009, CBC 2010, IBC 2012, ASCE 7-05, ASCE 7-10, ICC-ES AC-156 (2012)

Powering Ahead

Generac ensures superior quality by designing and manufacturing most of its generator components, such as alternators, enclosures, control systems and communications software. Generac also makes its own spark-ignited engines, and you'll find them on every Generac gaseous-fueled generator. We engineer and manufacture them from the block up — all at our facilities throughout Wisconsin. Applying natural gas and LP-fueled engines to generators requires advanced engineering expertise to ensure reliability, durability and necessary performance. By designing specifically for these dry, hotter-burning fuels, the engines last longer and require less maintenance. Building our own engines also means we control every step of the supply chain and delivery process, so you benefit from single-source responsibility.

Plus, Generac Industrial Power's distribution network provides all parts and service so you don't have to deal with third-party suppliers. It all leads to a positive owner experience and higher confidence level. Generac spark-ignited engines give you more options in commercial and industrial generator applications as well as extended run time from utility-supplied natural gas.

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

SG250 | 14.2L | 250 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency and Non-Emergency

GENERAC | INDUSTRIAL POWER

STANDARD FEATURES

DEMAND RESPONSE READY

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer (Enclosed Units Only)
- Oil Temperature Indication and Alarm

Fuel System

- NPT Fuel Connection on Frame
- Primary and Secondary Fuel Shutoff

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Permanent Magnet Excitation
- Sealed Bearing
- Amortisseur Winding
- Full Load Capacity Alternator

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby and Demand Response Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Units Only)
- Ready to Accept Full Load in <10 Seconds

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)
- Gasketed Doors
- Upward Facing Discharge Hood (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

CONTROL SYSTEM



Power Zone® Pro Sync Controller

Program Functions

- NFPA 110 Level 1 Compliant
- Engine Protective Functions
- Alternator Protective Functions
- Digital Engine Governor Control
- Digital Voltage Regulator
- Multiple Programmable Inputs and Outputs
- Remote Display Capability
- Remote Communication via Modbus® RTU, Modbus TCP/IP, and Ethernet 10/100
- Alarm and Event Logging with Real Time Stamping
- Expandable Analog and Digital Inputs and Outputs
- Remote Wireless Software Update Capable
- Wi-Fi, Bluetooth, BMS and Remote Telemetry
- Built-In Programmable Logic Eliminates the Need for External Controllers Under Most Conditions
- Ethernet Based Communications Between Generators
- Programmable I/O Channel Properties
- Built-In Diagnostics

Protections

- Low Oil Pressure
- Low Coolant Level
- High/Low Coolant Temperature
- Sensor Failure
- Oil Temperature
- Over/Under Speed
- Over/Under Voltage
- Over/Under Frequency
- Over/Under Current
- Over Load
- High/Low Battery Voltage
- Battery Charger Current
- Phase to Phase and Phase to Neutral Short Circuits (I^2T Algorithm)

7 Inch Color Touch Screen Display

- Resistive Color Touch Screen
- Sunlight Readable (1400 NITS)
- Easily Identifiable Icons
- Multi-Lingual
- On Screen Editable Parameters
- Key Function Monitoring
- Three Phase Voltage, Amperage, kW, kVA, and kVAr
- Selectable Line to Line or Line to Neutral Measurements
- Frequency
- Engine Speed
- Engine Coolant Temperature
- Engine Oil Pressure
- Engine Oil Temperature
- Battery Voltage
- Hourmeter
- Warning and Alarm Indication
- Diagnostics
- Maintenance Events/Information

SG250 | 14.2L | 250 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency and Non-Emergency

GENERAC | INDUSTRIAL POWER

CONFIGURABLE OPTIONS

DEMAND RESPONSE READY

ENGINE SYSTEM

- ○ Engine Coolant Heater
- ○ Baseframe Cover/Rodent Guard
- ○ 2 Stage Air Cleaner
- ○ Oil Heater
- ○ Air Filter Restriction Indicator
- ○ Radiator Stone Guard (Open Set Only)
- ○ Level 1 Fan and Belt Guards (Enclosed Units Only)

FUEL SYSTEM

- ○ NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- ○ 10A UL Listed Battery Charger
- ○ Battery Warmer

ALTERNATOR SYSTEM

- ○ Alternator Upsizing
- ○ Anti-Condensation Heater
- ○ Tropical Coating

CIRCUIT BREAKER OPTIONS

- ○ Main Line Circuit Breaker
- ○ 2nd Main Line Circuit Breaker
- ○ Shunt Trip and Auxiliary Contact
- ○ Electronic Trip Breakers

GENERATOR SET

- ○ Demand Response Rating
- ○ Extended Factory Testing (3-Phase Only)
- ○ 12 Position Load Center

ENCLOSURE

- ○ Weather Protected Enclosure
- ○ Level 1 Sound Attenuated
- ○ Level 2 Sound Attenuated
- ○ Level 2 Sound Attenuated with Motorized Dampers
- ○ Level 3 Sound Attenuated (Steel Only)
- ○ Steel Enclosure
- ○ Aluminum Enclosure
- ○ Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- ○ AC/DC Enclosure Lighting Kit
- ○ Enclosure Heaters (Motorized Dampers Only)
- ○ IBC Certification
- ○ Door Open Alarm Switch

CONTROL SYSTEM

- ○ NFPA 110 Level 1 Compliant 21-Light Remote Annunciator
- ○ Remote Relay Assembly (8 or 16)
- ○ Remote E-Stop (Break Glass-Type, Surface Mount)
- ○ Remote E-Stop (Red Mushroom-Type, Surface Mount)
- ○ Remote E-Stop (Red Mushroom-Type, Flush Mount)
- ○ 10A Engine Run Relay
- ○ Ground Fault Annunciator
- ○ 100 dB Alarm Horn
- ○ Damper Alarm Contacts (Motorized Dampers Only)
- ○ 120V GFCI and 240V Outlets

WARRANTY (Standby Gensets Only)

- ○ 2 Year Extended Limited Warranty
- ○ 5 Year Limited Warranty
- ○ 5 Year Extended Limited Warranty
- ○ 7 Year Extended Limited Warranty
- ○ 10 Year Extended Limited Warranty

ENGINEERED OPTIONS

ENGINE SYSTEM

- ○ Coolant Heater Ball Valves
- ○ Fluid Containment Pans

CONTROL SYSTEM

- ○ Battery Disconnect Switch

ALTERNATOR SYSTEM

- ○ 3rd Breaker System

GENERATOR SET

- ○ Special Testing
- ○ Battery Box

SG250 | 14.2L | 250 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency and Non-Emergency

GENERAC | INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

DEMAND RESPONSE READY

ENGINE SPECIFICATIONS

General

Make	Generac
Cylinder #	6
Type	In-line
Displacement - in^3 (L)	864.71 (14.2)
Bore - in (mm)	5.31 (135)
Stroke - in (mm)	6.50 (165)
Compression Ratio	9.5:1
Intake Air Method	Turbocharged/Aftercooled
Number of Main Bearings	7
Connecting Rods	Steel Alloy
Cylinder Head	Cast Iron
Cylinder Liners	Ductile Iron
Ignition	Electronic
Piston Type	Aluminum
Crankshaft Type	Ductile Iron
Lifter Type	Solid
Intake Valve Material	Special Heat-Resistant Steel
Exhaust Valve Material	High Temp Steel Alloy
Hardened Valve Seats	High Temp Steel Alloy

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow Cartridge
Crankcase Capacity - qt (L)	36.2 (34.3)

Cooling System

Cooling System Type	Pressurized Closed Recovery
Fan Type	Pusher
Fan Speed - RPM	1,894
Fan Diameter - in (mm)	30 (762)

Fuel System

Fuel Type	Natural Gas, Propane
Carburetor	Down Draft
Secondary Fuel Regulator	Standard
Fuel Shut Off Solenoid	Standard
Operating Fuel Pressure - in H_2O (kPa)	7 - 11 (1.7 - 2.7)

Engine Electrical System

System Voltage	24 VDC
Battery Charger Alternator	57.5 A
Battery Size	See Battery Index 0161970SBY
Battery Voltage	24 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0250124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase)
Telephone Interference Factor (TIF)	<50

Standard Excitation	Permanent Magnet
Bearings	Sealed Ball
Coupling	Direct via Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Full Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SG250 | 14.2L | 250 kW

INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency and Non-Emergency

GENERAC | INDUSTRIAL POWER

OPERATING DATA

DEMAND RESPONSE READY

POWER RATINGS - NATURAL GAS

	Standby/Demand Response		Prime	
Three-Phase 120/208 VAC @0.8pf	250 kW/313 kVA	Amps: 868	225 kW/281 kVA	Amps: 782
Three-Phase 120/240 VAC @0.8pf	250 kW/313 kVA	Amps: 753	225 kW/281 kVA	Amps: 677
Three-Phase 277/480 VAC @0.8pf	250 kW/313 kVA	Amps: 376	225 kW/281 kVA	Amps: 339
Three-Phase 346/600 VAC @0.8pf	250 kW/313 kVA	Amps: 301	225 kW/281 kVA	Amps: 271

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip

277/480 VAC	30%	208/240 VAC	30%
K0250124Y21	630	K0250124Y21	506
K0300124Y21	790	K0300124Y21	609

FUEL CONSUMPTION RATES*

Natural Gas – scfh (m^3/hr)

Percent Load	Standby/Demand Response	Prime
25%	1,020 (28.9)	990 (28.0)
50%	1,620 (45.9)	1,260 (35.7)
75%	2,520 (71.4)	1,980 (56.1)
100%	3,180 (90.0)	2,700 (76.5)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby/Demand Response	Prime
Air Flow (Fan Air Flow Across Radiator)	scfm (m^3/min)	10,078 (285.4)	10,078 (285.4)
Coolant Flow	gpm (Lpm)	90 (340.7)	90 (340.7)
Coolant System Capacity	gal (L)	15 (54.9)	15 (54.9)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)		See Bulletin No. 0199270SSD	
Maximum Radiator Backpressure	in H_2O (kPa)	0.5 (0.12)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby/Demand Response	Prime
Flow at Rated Power - scfm (m^3/min)	506 (14.3)	455 (12.9)

ENGINE

		Standby/Demand Response	Prime
Rated Engine Speed	RPM	1,800	1,800
Horsepower at Rated kW**	hp	375	337
Piston Speed	ft/min (m/min)	1,950 (594)	1,950 (594)
BMEP	psi (kPa)	190 (1,313)	171 (1,182)

EXHAUST

		Standby/Demand Response	Prime
Exhaust Flow (Rated Output)	scfm (m^3/min)	1,703 (48)	1,517 (43)
Max. Backpressure (Post Silencer)	inHg (kPa)	0.75 (2.54)	0.75 (2.54)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	1,357 (736)	1,340 (727)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.
Standby - See Bulletin 0187500SSB
Demand Response - See Bulletin 10000018250
Prime - See Bulletin 0187510SSB

SG250 | 14.2L | 250 kW

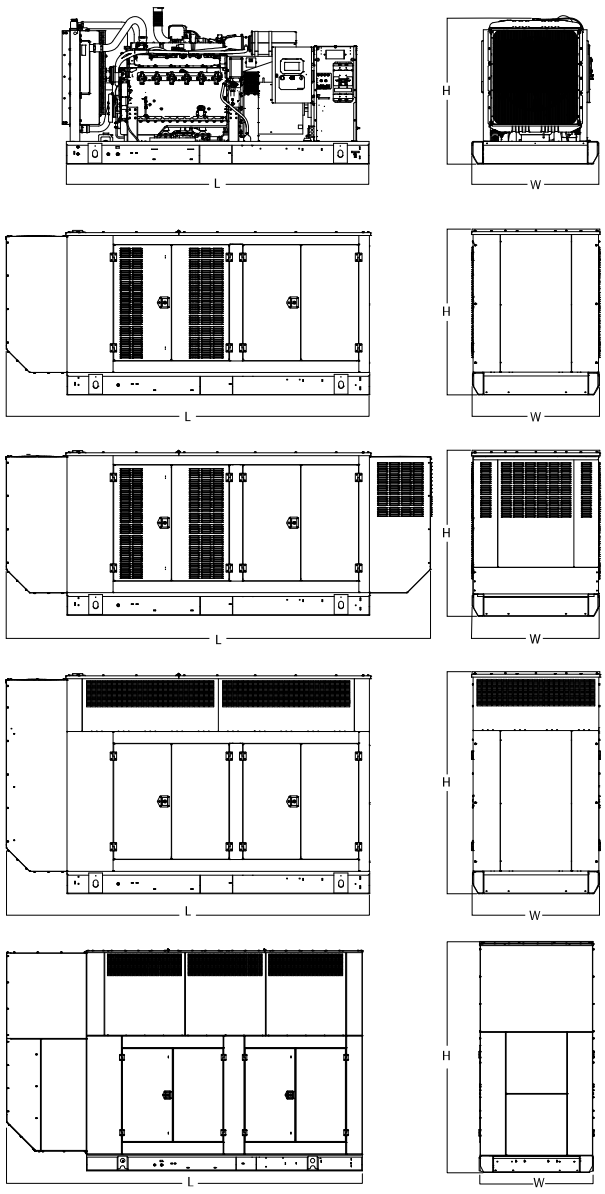
INDUSTRIAL SPARK-IGNITED GENERATOR SET

EPA Certified Stationary Emergency and Non-Emergency

GENERAC | INDUSTRIAL POWER

DIMENSIONS AND WEIGHTS*

DEMAND RESPONSE READY



OPEN SET (Includes Exhaust Flex)

L x W x H - in (mm)	136.0 (3,454) x 57.1 (1,450) x 67.9 (1,725)
Weight - lbs (kg)	5,883 - 6,031 (2,668 - 2,735)

WEATHER PROTECTED ENCLOSURE

L x W x H - in (mm)	174.7 (4,437) x 57.5 (1,461) x 77.8 (1,976)
Weight - lbs (kg)	Steel: 7,448 - 7,596 (3,378 - 3,445) Aluminum: 6,654 - 6,801 (3,018 - 3,084)

LEVEL 1 SOUND ATTENUATED ENCLOSURE

L x W x H - in (mm)	200.2 (5,085) x 57.5 (1,461) x 77.8 (1,976)
Weight - lbs (kg)	Steel: 7,911 - 8,059 (3,588 - 3,655) Aluminum: 6,853 - 7,000 (3,108 - 3,175)

LEVEL 2 SOUND ATTENUATED ENCLOSURE

L x W x H - in (mm)	180.6 (4,587) x 57.5 (1,461) x 111.3 (2,827)
Weight - lbs (kg)	Steel: 8,484 - 8,632 (3,848 - 3,915) Aluminum: 7,099 - 7,247 (3,220 - 3,287)

LEVEL 3 SOUND ATTENUATED ENCLOSURE

L x W x H - in (mm)	207.3 (5,265) x 63.7 (1,618) x 128.9 (3,274)
Weight - lbs (kg)	10,840 - 10,990 (4,916 - 4,984)

(6031 lb set and tank) + (8632 lbs enclosure weight) = **14663 LBs total**

* All measurements are approximate and for estimation purposes only.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Please contact a Generac Power Systems Industrial Dealer for detailed installation drawings.

SPEC SHEET

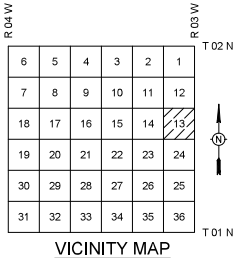
6 of 6

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.
© 2019 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.

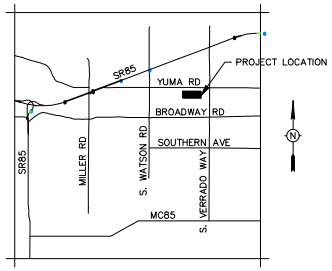
COYOTE BRANCH LIBRARY
STANDBY GENERATOR

21699 W. YUMA RD #116
BUCKEYE, ARIZONA 85326

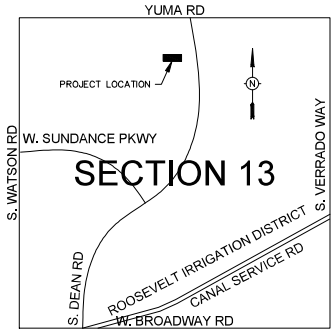
A PORTION OF THE NESE OF SECTION 13, TOWNSHIP T01N, RANGE R08W OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



OVERALL DEVELOPMENT
NOT TO SCALE

FEMA FLOOD ZONE INFORMATION

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEV. (IN AO ZONE, USE DEPTH)
ALL FLOOD ZONES ARE SHOWN IN THIS PLAN SET.					

GENERAL PERMITTING NOTES

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF BUCKEYE DESIGN STANDARDS. IF THERE IS A CONFLICT, THE CITY OF BUCKEYE STANDARDS WILL GOVERN.
2. THE APPROVAL OF THE PLANS IS VALID FOR ONE (1) YEAR FROM THE DATE OF THE CITY ENGINEER'S SIGNATURE. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN ONE (1) YEAR, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
3. A CITY OF BUCKEYE INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF BUCKEYE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY THE CITY 24 HOURS PRIOR TO THE INSPECTION BY CALLING (623) 349-6248.
4. CITY PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. A CITY PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER ALL FEES HAVE BEEN PAID AND THE PERMIT HAS AN APPROVED MARICOPA COUNTY ENVIRONMENTAL SERVICES DUST PERMIT AND AN APPROVED STORM WATER POLLUTION PREVENTION PLAN ATTACHED. THE SWPPP SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. COPIES OF ALL PERMITS AND MOST RECENT APPROVED PLANS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS AND PLANS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL PROPER PERMIT DOCUMENTATION AND/OR PLANS ARE OBTAINED. ALL OF THESE REQUIREMENTS APPLY TO ONSITE GRADING AND IMPROVEMENT PLANS.

SUMMARY OF BUILDING CODES

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL RESIDENTIAL CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE

ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
MICHAEL COLOMBO
7740 N. 16TH STREET
SUITE 300 PHOENIX, AZ 85020
602-944-5500
MICHAEL.COLOMBO@KIMLEY-HORN.COM

SHEET INDEX

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	ELECTRICAL GENERAL NOTES
3	ELECTRICAL SITE PLAN
4	ELECTRICAL ONE LINE DIAGRAM
5	ELECTRICAL SCHEDULES
6	ELECTRICAL DETAILS
7	STRUCTURAL NOTES AND PLAN
8	STRUCTURAL DETAILS

APPROVAL

DISCLAIMER:

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS AND OMISSIONS.

BY: _____
CITY OF BUCKEYE ENGINEER — DATE

BY: _____
FLOOD CONTROL DISTRICT MARICOPA COUNTY — DATE

BY: _____
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION — DATE

BY: _____
MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT — DATE

BY: _____
PRIVATE WATER — DATE

BY: _____
PRIVATE SEWER — DATE

BY: _____
ROOSEVELT IRRIGATION DISTRICT (RID) — DATE

BY: _____
BUCKEYE WATER CONSERVATION & DRAINAGE DISTRICT — DATE

(OTHER SIGNATURE LINES AS REQUIRED)

MANAGING ENGINEERING / SURVEYOR
PROJECT COORDINATOR
DESIGN LAYOUT: EG | DRAFTED: JN | CHECKED: MAC
FIELD SURVEY | DRAFTED | CHECKED
DRAWING SCALES

PLAN TYPE: ELECTRICAL PLANS

ENGINEER INFORMATION: Kimley»Horn

PROJECT: COYOTE BRANCH LIBRARY STANDBY GENERATOR

COB PROJECT PLAN STICKER

REVISIONS:
1
2
3

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

SUBMITTAL: FINAL

AS-BUILT SEAL

DESIGN SEAL

Registered Professional Engineer — CERTIFICATE NO. 30360 — Michael K. Colombo — Date Signed 07/07/20 — ARIZONA, USA

Expires 12/31/21

CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100 1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)

ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	1 of 8

COB PLAN TRACKING #
COB PERMIT #

CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES

1. CITY OF BUCKEYE BUILDING DEPARTMENT SHALL; HE NOTIFIED 24 HOURS IN ADVANCE OF ANY ON-SITE OR OFF SITE CONSTRUCTION. PHONE 623-349-6248 FOR THE HOTLINE. ALL OTHERS FAX THE INSPECTION REQUEST FORM TO 623-349-6221, OR USE THE WEB BASED PERMIT PORTHOLE ACCESS TO SCHEDULE AN INSPECTION (WWW_BUCKEYEAZ.GOV).
2. ALL WORK AND MATERIALS MUST CONFORM WITH THESE SPECIFICATIONS, THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) AND AS AMENDED BY THE CITY OF BUCKEYE (COB).
3. A PERMIT IS REQUIRED FROM THE COB FOR ALL CONSTRUCTION WITHIN THE RIGHTS-OF-WAY (ROW).
4. THE CONTRACTOR WILL EXPOSE ALL EXISTING UTILITY LINES BEING TIED IN TO VERIFY THEIR LOCATION.
5. THE CONTRACTOR WILL LOCATE, OR HAVE LOCATED, ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINE, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO CALL BLUE STAKE PRIOR TO STARTING ANY CONSTRUCTION. NO WORK SHALL BEGIN UNTIL BLUE STAKE IS COMPLETED. BLUE STAKE TELEPHONE NUMBER 602-263-1 100 OR 1-800-STAKE-IT.
7. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO STARTING ANY WORK OR NEW PHASE OF WORK. THE CONTRACTOR, KEY SUB-CONTRACTORS, COB INSPECTOR AND REPRESENTATIVE OF THE CITY ENGINEER SHALL ATTEND THIS MEETING.
8. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COB AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. DISPOSAL OF EXCESS MATERIAL WITHOUT A PERMIT WITHIN THE COB LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL OR STOCKPILING OF MATERIALS WITHIN A RESIDENTIAL AREA. STOCKPILING OF EXCAVATED MATERIAL SHALL NOT EXCEED A HEIGHT OF 6 FEET ABOVE THE NATURAL GROUND ELEVATION. THE SLOPES ON ALL SIDES OF THE STOCKPILED EXCAVATED MATERIAL SHALL NOT EXCEED A 4: 1 RATIO OF LENGTH TO HEIGHT.
10. EXCAVATION CONTRACTORS MUST IDENTIFY LOCATION FOR DISPOSING OF EXCESS EXCAVATION MATERIAL ALONG WITH A LETTER FROM THE LAND OWNER, GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ANY CONSTRUCTION.
11. TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF PHOENIX BARRICADING MANUAL, MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION, M.A.G. UNIFORM STANDARD DETAIL 401, AND COB REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND BARRICADE PLAN TO THE COB FOR APPROVAL WHERE THE CONSTRUCTION OF THE NEW IMPROVEMENTS ARE ADJACENT TO OR CONNECTING TO ANY EXISTING ROADWAY OR PEDESTRIAN FACILITIES. THE TRAFFIC CONTROL PLAN AND BARRICADE PLAN SHALL BE APPROVED BEFORE A PERMIT FOR THE WORK WILL BC ISSUED. THE CONTRACTOR SHALL INSTALL APPROVED BARRICADING AND TRAFFIC CONTROL, AS APPROVED BY THE COB, BEFORE WORK CAN TAKE PLACE. ALL OVERNIGHT BARRICADES SHALL BE LIT AND FUNCTIONING.
12. A HAUL PLAN FOR MATERIAL IMPORT OR EXPORT SHALL BE REQUIRED FOR COB REVIEW AND APPROVAL PRIOR TO THE START OF HAULING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC. THIS WORK INCLUDES STREET SWEEPING, POWER BROOM AND WATER AS NEEDED OR DIRECTED BY THE COB.
13. ENVIRONMENTAL REQUIREMENTS
    A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL RELATED TO THE PROJECT CONSTRUCTION AND SHALL TAKE WHATEVER MEANS NECESSARY TO CONTROL ANY ABNORMAL CONDITIONS.
    B. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
    C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC.
    D. TEMPORARY DRAINAGE CONTROL MEASURES MAY BE REQUIRED DURING AND AFTER CONSTRUCTION UNTIL FINAL PROJECT BUILD-OUT IN ACCORDANCE WITH THE APPROVED PLANS AND IN ACCORDANCE WITH ANY ESTABLISHED OR REQUIRED BEST MANAGEMENT PRACTICES (BMP) AS PART OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS.
    E. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL AIR QUALITY PERMITS.
    F. THE CONTRACTOR SHALL SUBMIT TO THE COB A COPY OF THEIR APPROVED COUNTY (AIR QUALITY) DUST CONTROL PLAN, EROSION CONTROL PLAN (SWPPP), AND PERMIT PRIOR TO THE START OF WORK.
14. STREET CUTS: APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. THE PAVEMENT REPLACEMENT SECTION FOR ALL LONGITUDINAL AND TRANSVERSE TRENCHES LOCATED IN AN EXISTING PAVED STREET SHALL BE CONSTRUCTED IN ACCORDANCE M.A.G. UNIFORM STANDARD DETAIL NO. 200 "T"-TOP, BACKFILL, PAVEMENT SURFACE REPLACEMENT, MODIFIED AS FOLLOWS: THE WIDTH OF THE REPLACED PAVEMENT SECTION EXTEND 1 FOOT BEYOND THE TRENCH SIDE EDGE LINE, ON EITHER SIDE OF THE TRENCH. THE DEPTH OF THE PERMANENT SURFACE REPLACEMENT SHALL BE A MINIMUM OF 3 INCHES OR MATCH THE EXISTING THICKNESS OF THE PAVEMENT, WHICHEVER IS GREATER. SAWCUT OR CONSTRUCTION JOINTS SHALL BE ADEQUATELY TACK OILED WITH A MINIMUM OF 95% COVERAGE. ASPHALT MATERIAL SHALL BE A COB APPROVED MIX DESIGN WITH COMPACTED LIFTS NO GREATER THAN 3 INCHES. SLURRY BACKFILLED OR OPEN TRENCHES IN EXISTING ROADWAYS MUST BE PROPERLY STEEL PLATED AND BARRICADED OVER NIGHT. STEEL PLATES TO BE MILLED FLUSH WITH ROADWAY SURFACE PER NOTE 24. "COLD MIX" TEMPORARY ASPHALT PATCHES MUST BE REPLACED AS SOON AS POSSIBLE AND CANNOT REMAIN FOR MORE THAN 5 DAYS TIME OR AS REQUIRED BY THE COB. DURING THE 5 DAY PERIOD THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PATCH TO WITHIN MAG STD SPEC 321.5.3. ASPHALT IN PLACE FOR LESS THAN 5 YEARS SHALL BE MILLED AND OVERLAYED A MINIMUM OF 20 FEET PAST TRENCH WALLS, AND IN THE CASE OF MULTIPLE STREET CUTS, THE CONTINUOUS MILL AND OVERLAY SHALL EXTEND A MINIMUM OF 20-FEET PAST END OF THE FURTHEST TRENCH WALLS.
15. POTHOLING: NO POTHOLING SHALL BE DONE ON ANY STREET NEWER THAN 2 YEARS OLD. ALL POTHOLING IN EXISTING STREETS SHALL BE DONE USING WATER/AIR/VACUUM TYPE METHOD. POTHOLE SIZE SHALL BE LIMITED TO A 12 INCH BY 12 INCH SQUARE HOLE. REMOVAL MATERIAL CANNOT BE USED FOR BACK FILL. THE CONTRACTOR SHALL USE SLURRY PER MAG SEC. 728. PAVEMENT REPLACEMENT SHALL BE BY APPROVED HOT MIX ASPHALT ONLY. A 3 FOOT BY 3 FOOT PAVEMENT SLURRY SEAL SHALL BE APPLIED AFTER THE ASPHALT IS PLACED.
16. AN APPROVED, UP-TO-DATE SET OF PLANS AND A RIGHT-OF-WAY PERMIT SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WHILE WORK IS IN PROGRESS. IF THE PLANS AND PERMITS ARE NOT ON SITE, THE WORK SHALL BE STOPPED UNTIL THE APPROVED PLANS ARE PROVIDED. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT THE COB'S APPROVAL.
17. DAMAGE TO ANY AND ALL ITEMS CAUSED BY CONSTRUCTION OR CONSTRUCTION RELATED WORK SHALL BE REPLACED OR REPAIRED TO THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
18. ALL PARCEL CONSTRUCTION ACCESS LOCATIONS ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE ACCESS ROADS INSIDE AND THROUGHOUT THE PARCEL ALLOWING FOR INSPECTION ACCESSIBILITY. THIS INCLUDES GRADING, GRAVEL FILL AND/OR TRENCH PLATES AS REQUIRED.
19. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COB AND THE COB CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE COB.
20. THE COB SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONNECTION WITH THE WORK. THE COB WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS COMPLYING WITH MAG OR COB REQUIREMENTS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CERTIFIED AS-BUILT RECORD DOCUMENTS TO THE COB FOR REVIEW AND APPROVAL. NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL "AS-BUILT" PLANS CERTIFIED BY THE PROJECT ENGINEER/LAND SURVEYOR HAVE BEEN SUBMITTED AND ACCEPTED BY THE COB. FINAL CONSTRUCTION ACCEPTANCE OR THE RELEASE OF CERTIFICATE OF OCCUPANCIES SHALL NOT BE ISSUED UNTIL ALL AS-BUILT DRAWINGS AND OTHER REQUIRED DOCUMENTS PER THE COB'S FINAL PROJECT SUBMITTAL CHECKLIST, HAVE BEEN REVIEWED AND APPROVED BY THE CITY ENGINEER.
22. ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING THE WATER RESOURCE DEPARTMENT AT (623) 349-6800.
23. THE COB IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR RELOCATION OF UTILITIES.
24. ALL CONTRACTORS SHALL CONTRACT FOR TRASH PICKUP THROUGH A LICENSED CITY OF BUCKEYE SOLID WASTE HAULER (602-237-2078) AND DISPOSED OF AT THE SOUTHWEST REGIONAL LANDFILL IN BUCKEYE.
25. OPEN TRENCHES ACROSS DRIVEWAYS, STREETS AND CROSS-STREETS SHALL BE PLATED FOR OVERNIGHT, WEEKEND OR EXTENDED PERIODS, PER M.A.G. UNIFORM STANDARD DETAIL 211.
26. ALL ABC SHALL BE FROM AN ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) APPROVED SOURCE LIST.
27. LONGITUDINAL TRENCH BACKFILL IN EXISTING ARTERIAL, COLLECTOR, OR LOCAL ROADWAYS OR ADJACENT TO EXISTING ROADWAY (WHEN THE TRENCH EXCAVATION FALLS WITHIN 2 FEET OF EDGE OF PAVEMENT) SHALL REQUIRE 1/2 SACK CLSM PER MAG SPEC 728 FULL DEPTH OR ABC FULL DEPTH AS DIRECTED BY THE COB. ABC BACKFILL COMPACTION SHALL BE BY AN APPROVED MECHANICAL METHOD (NO WATER SETTLING) WITH BACKFILL MATERIAL LIFTS AS FOLLOWS:
    - 12 INCH LIFTS (LOOSE) TO BE USED IN THE TOP 4 FEET OF THE TRENCH
    - 24 INCH LIFTS (LOOSE) TO BE USED FROM 1 FOOT OVER THE PIPE TO 4 FEET FROM THE TOP OF THE TRENCH PER MAG SEC. 601.4.
28. ALL BACKFILL WITHIN OR ADJACENT TO EXISTING ROADWAYS SHALL BE MECHANICALLY COMPACTED.
29. TRANSVERSE TRENCH BACKFILL IN ALL EXISTING ROADWAYS SHALL REQUIRE 100% FULL DEPTH HALF SACK CLSM PER MAG SPEC 728.
30. ALL MATERIAL SUBMITTALS INCORPORATED IN THE PROJECT SHALL BE SUBMITTED AT OR BEFORE THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

ELECTRICAL GENERAL CONSTRUCTION NOTES

1. ALL EQUIPMENT, MATERIALS AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING OR NOTED OTHERWISE ON OTHER SHEETS.
2. PROVIDE ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE WORKING ELECTRICAL SYSTEM.
3. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY AND LOCAL CODES AND ORDINANCES, AS WELL AS ALL CURRENT STANDARDS, CODES AND PRACTICES AS REQUIRED BY NEC, NEMA, ANSI, NFPA, UBC, UL, IEEE, AND UTILITY COMPANY STANDARDS.
4. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER OF ALL SHOP DRAWINGS AND MANUFACTURERS DATA FOR PANEL BOARDS, TRANSFORMERS, WIRING DEVICES, ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL INDICATE THAT THE CONTRACTOR HAS REVIEWED THE INFORMATION THEREIN AND THAT THE PROPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOB SITE. ANY SUBSTITUTIONS SHALL BE OF THE EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
5. ALL WIRE SHALL BE STRANDED COPPER WITH XHHW-2 INSULATION OR APPROVED EQUAL.
6. ALL CONDUIT SHALL BE ROUTED UNDER FOOTINGS WHERE APPLICABLE. REFER TO STRUCTURAL DETAILS FOR MORE INFORMATION.
7. THE USE OF SERIES RATING OF UPSTREAM OR DOWNSTREAM CIRCUIT BREAKERS OR FUSES IS PROHIBITED. ONLY FULLY RATED SYSTEM COMPONENTS WILL BE ACCEPTED.
8. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40. ALL ELBOWS AND EXPOSED RISERS SHALL BE WRAPPED RIGID STEEL CONDUIT.
9. TYPE MC OR TYPE AC CABLE SHALL ONLY BE USED WITH THE SPECIFIC WRITTEN PERMISSION OF THE PROGRAM/PROJECT MANAGER. EMT TYPE CONDUIT WILL NOT BE ALLOWED.
10. ORDER AND/OR RELEASE ORDERED MATERIALS PROMPTLY AFTER SUBMITTAL APPROVAL. NO SUBSTITUTIONS OR ALTERNATE METHODS OF INSTALLATION WILL BE ACCEPTED FOR FAILURE TO ORDER MATERIALS IN A TIMELY FASHION.
11. PULL ROPES: PROVIDE 300 POUND PULL WIRE OR NYLON EQUIVALENT IN ALL INTERIOR EMPTY CONDUIT RUNS. PROVIDE 1/4" DIA NYLON PULL ROPE IN EACH EMPTY EXTERIOR CONDUIT OR DUCT.
12. ALL MULTIPLE POLE CIRCUITS SHALL BE PROVIDED WITH HANDLE TIES AS REQUIRED BY NEC.
13. CONDUIT/ CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT THE TIME OF CONSTRUCTION.
14. PRIOR TO PURCHASE OF ANY PANEL, PROTECTIVE DEVICES, SWITCH, STARTER, CONDUIT, WIRE, ETC., TO FEED ANY PIECE OF EQUIPMENT VERIFY THE VOLTAGE, PHASE, AND LOAD OF THAT ITEM IN THE FIELD AND/OR WITH THE PARTICULAR ENTITY INVOLVED IN THE FURNISHING THE ITEM SUCH THAT THE PROPER SIZE & RATING OF THE MATERIALS ARE PURCHASED. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY. THIS APPLIES TO ALL EQUIPMENT UNDER OTHER SECTIONS & BY THE OWNER.
15. DUE TO THE REQUIREMENTS TO INTERFACE WITH EXISTING FACILITIES AND UTILITIES. IT IS RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING A JOC PROPOSAL.
16. PROVIDE ALL TRENCHING, EXCAVATION, BACK FILLING, SHORING. PUMPING, COMPACTION TEST ETC. THAT ARE REQUIRED FOR THE SCOPE OF ELECTRICAL WORK.
17. VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
18. ALL PANEL BOARDS, SWITCHES, MOTOR STARTERS AND SWITCHBOARD CIRCUIT BREAKERS SHALL HAVE ENGRAVED MICARTA NAMEPLATES.
19. ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ELECTRICAL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
20. PROVIDE ALL PANEL BOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE OWNER FOR APPROVAL PRIOR TO FINALIZATION.

LEGEND

—X—X—	EXISTING FENCE
—OH—	EXISTING OVERHEAD POWER LINE
	EXISTING CONDUIT, ABOVE GRADE
	EXISTING CONDUIT, BELOW GRADE
	PROPOSED RGS CONDUIT, ABOVE GRADE
	PROPOSED PVC SCH 40 CONDUIT, BELOW GRADE
E	PROPOSED ELECTRICAL PULL BOX
C	PROPOSED COMMUNICATIONS PULL BOX
J	PROPOSED JUNCTION BOX
	EXISTING LIGHT POLE
	EXISTING TREE
	BRANCH PANELBOARD/SWITCHBOARD
	DISTRIBUTION PANELBOARD/SWITCHBOARD
	AUTOMATIC TRANSFER SWITCH
GEN	PROPOSED GENERATOR SET ON NEW STRUCTURAL PAD. SEE STRUCTURAL DRAWINGS FOR PAD DETAILS.

ABBREVIATIONS

AFG	ABOVE FINISH GRADE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
EX.	EXISTING
GEC	GROUNDING ELECTRODE CONDUCTOR
GND	GROUND
IBC	INTERNATIONAL BUILDING CODE
IFC	INTERNATIONAL FIRE CODE
IMC	INTERMEDIATE METAL CONDUIT
IPC	INTERNATIONAL PLUMBING CODE
KCMIL	THOUSAND CIRCULAR MIL
MLO	MAIN LUG ONLY
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
PCP	PUMP CONTROL PANEL
RMC	RIGID METAL CONDUIT
RTU	REMOTE TERMINAL UNIT
SCCR	SHORT CIRCUIT CURRENT RATING
TYP.	TYPICAL
MH	MOUNT HEIGHT

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL GENERAL NOTES

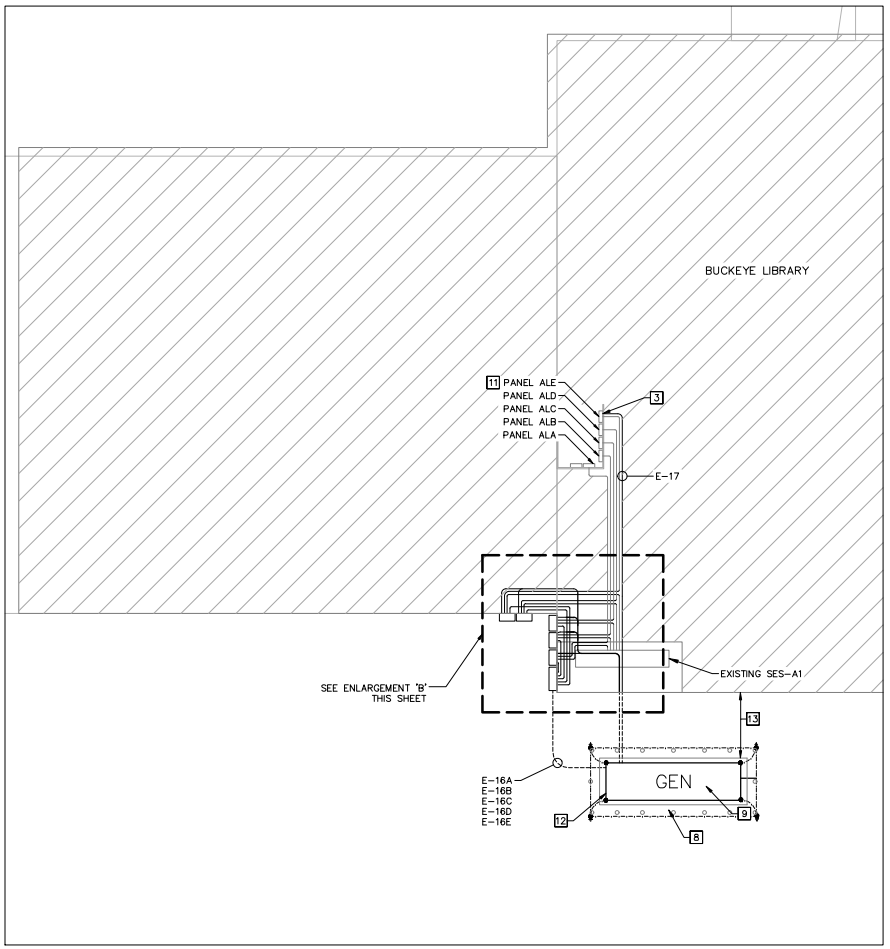
ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Registered Professional Engineer
CERTIFICATE NO. 30360
Nathan A. Colonna
Date Signed 07/07/20
ARIZONA, USA
Expires 12/31/21

SUBMITTAL: FINAL

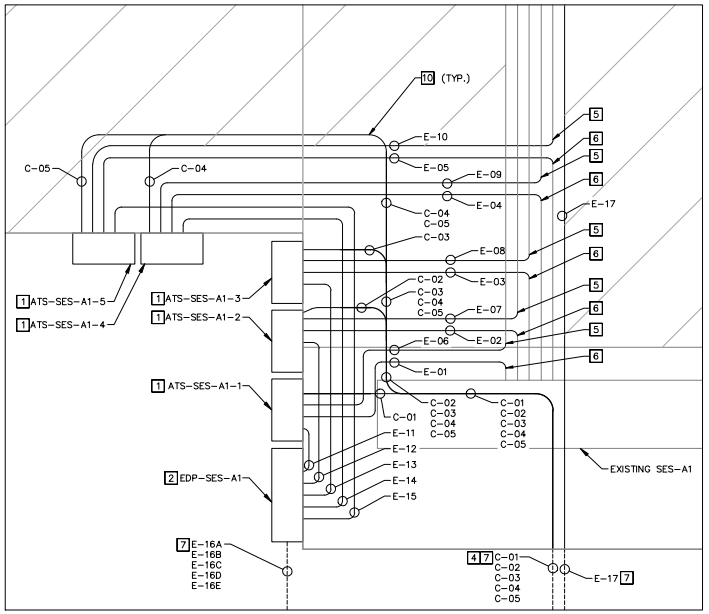
ORIGINAL PLAN DATE 07/07/2020	LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012	SHEET NUMBER 2 of 8

COB PLAN TRACKING #
COB PERMIT #



A — GENERATOR ELECTRICAL SITE PLAN
COYOTE BRANCH (21699 W. YUMA ROAD)
SCALE:1"=20'

GRAPHIC SCALE IN FEET
0 4 8 16



B — PROPOSED EQUIPMENT AND CONDUIT LOCATION
COYOTE BRANCH (21699 W. YUMA ROAD)
SCALE:1"=20'

GRAPHIC SCALE IN FEET
0 1 2 4

CONSTRUCTION NOTES

1. INSTALL WALL MOUNTED AUTOMATIC TRANSFER SWITCH. BOTTOM OF ATS TO BE 36" AFG AND PROVIDE AT LEAST 6" OF HORIZONTAL CLEARANCE FROM ATS. SEE ONE-LINE DIAGRAM ON SHEET 4 FOR ATS EQUIPMENT AND CONNECTION DETAILS.
2. INSTALL NEW 1000A 120/208V EMERGENCY DISTRIBUTION BOARD EDB-SES-A1 ON 4" THICK HOUSEKEEPING PAD. SEE EDB-SES-A1 INFORMATION ON SHEET 5, ONE-LINE DIAGRAM AND PANELBOARD SUMMARY. SEE CONDUIT AND CONDUCTOR SCHEDULE FOR INTERCONNECTION DETAILS.
3. CONNECT PROPOSED CONDUIT INTO EXISTING PANEL ALE. CONNECT CONDUCTORS FROM COMPELTE SYSTEM.
4. COMBINE MULTIPLE ATS START SIGNALS IN SAME GENERATOR CONTROL PANEL. GENERATOR TO START WHEN LOSS OF POWER AT ANY ATS.
5. INTERCEPT CONDUIT FROM SES TO PANELBOARD AND ROUTE NEW CONDUIT TO PROPOSED ATS. PROVIDE JUNCTION BOX, ELBOW, AND NECESSARY FITTINGS PER SPECIFICATIONS TO REROUTE NEW CONDUITS FROM THE EXISTING PANELBOARD TO THE PROPOSED ATS. SEE CONDUIT AND CONDUCTOR SCHEDULE FOR CONDUIT AND CONDUCTOR SIZE AND QUANTITIY.
6. INTERCEPT CONDUIT FROM SES TO PANELBOARD AND ROUTE NEW CONDUIT TO PROPOSED ATS. PROVIDE JUNCTION BOX, ELBOW, AND NECESSARY FITTINGS PER SPECIFICATIONS TO REROUTE NEW CONDUITS FROM THE EXISTING SES TO THE PROPOSED ATS. INSTALL NEW CONDUCTORS BACK TO SES. SEE CONDUIT AND CONDUCTOR SCHEDULE FOR CONDUIT AND CONDUCTOR SIZE AND QUANTITIY.
7. UNDERGROUND TRENCH DETAIL SHOWN ON SHEET 6.
8. PROVIDE GROUND RING FOR TRANSFORMER PER SPECIFICATIONS. GROUND ROD AND TEST WELL CONNECTION DETAIL SHOWN ON SHEET 6.
9. GENERATOR STRUCTURAL DETAILS SHOWN ON STRUCTURAL PLAN. SEE SHEET 7-8.
10. SEE CONDUIT SCHEDULE ON SHEET 5 FOR CONDUIT AND INTERCONNECTION DETAILS.
11. EXISTING PANEL ALE TO POWER GENERATOR ANCILLARY LOADS. SEE ONE-LINE DIAGRAM, CONDUIT SCHEDULE, AND PANEL SCHEDULE ON SHEETS 4 AND 5.
12. PROPOSED 280KW/350KVA, 208/120V, 3 PHASE, 4W NEMA 3R DIESEL GENERATOR WITH 946 GALLON TANK.
13. GENERATOR LOCATION IS APPROXIMATE. GENERATOR AND BOLLARDS TO BE PLACED AT SAME DISTANCE SOUTH FROM BUILDING AS POLICE STATION GENERATOR AND CLEAR OF FIRE LANE.

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL SITE PLAN

ENGINEER INFORMATION
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7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
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COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Registered Professional Engineer CERTIFICATE NO. 30360 Michael K. Colombo Date Signed 07/07/20 ARIZONA, USA
Expires 12/31/21

ORIGINAL PLAN DATE 07/07/2020
LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012
SHEET NUMBER 3 of 7

SUBMITTAL: FINAL
COB PLAN TRACKING #
COB PERMIT #

NORTH

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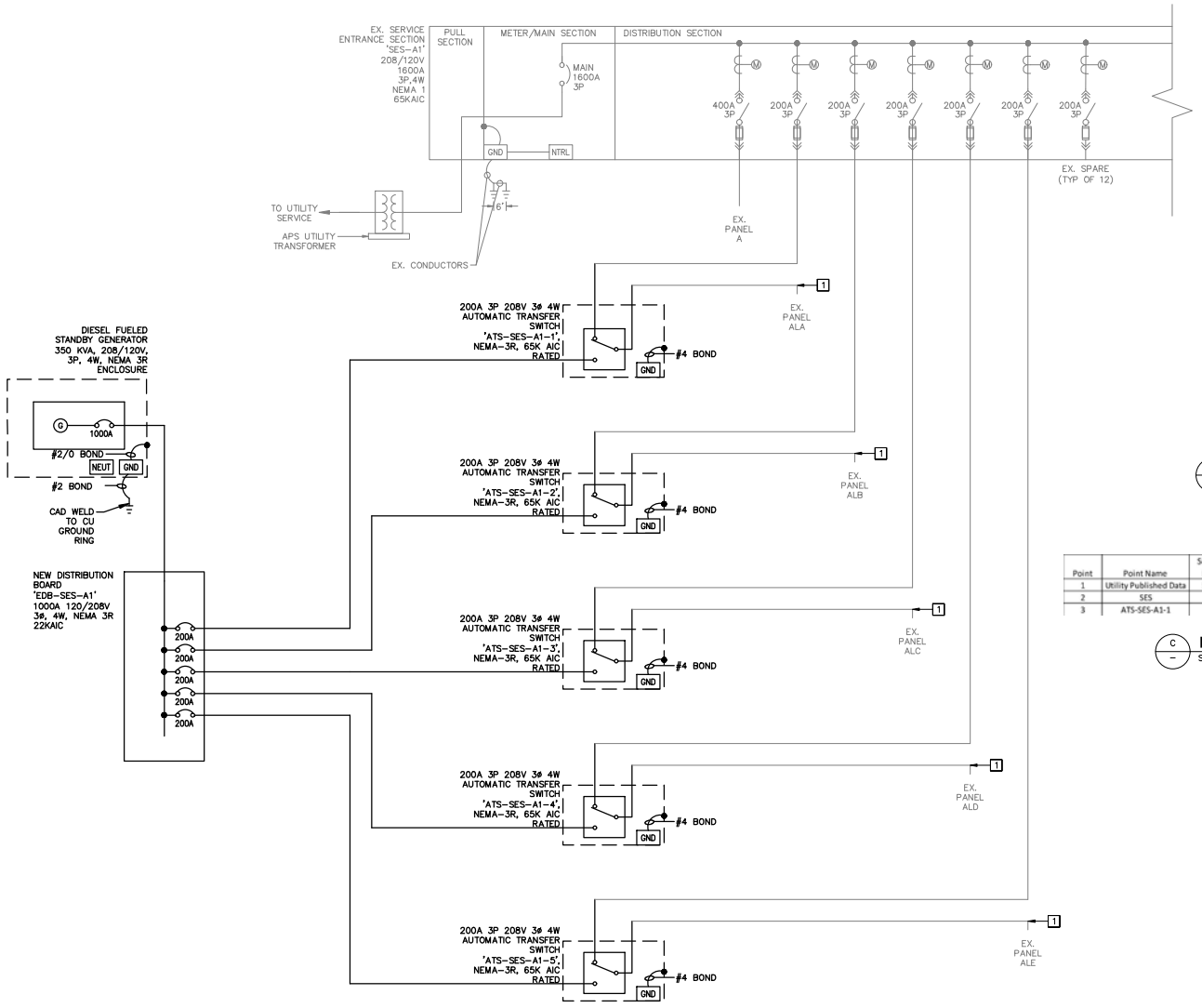
(OUTSIDE MARICOPA COUNTY)



A — ONE-LINE DIAGRAM
SCALE:NOT TO SCALE

CONSTRUCTION NOTES

1. REROUTE EXISTING CONDUIT TO NEW EMERGENCY DISTRIBUTION PANEL EDP-ATS-A1. PROVIDE NEW CONDUIT, JUNCTION BOX, ELBOW AND ANY OTHER APPURTENANCE NECESSARY TO MAKE CONNECTION AS INDICATED PER ONE-LINE DIAGRAM ON THIS SHEET. NOTE THE EXISTING EQUIPMENT SHOWN AS GREY AND NEW EQUIPMENT SHOWN AS BOLD FOR CLARITY. UTILIZE DROP CEILING FOR CONDUIT ROUTING BETWEEN SES AND PANEL ALA, ALB, ALC, ALD, AND ALE.

GENERATOR LOAD CALCULATION

LOAD DESCRIPTION	AMPS
EXISTING LOADS	
PANEL ALA	147
PANEL ALB	127
PANEL ALC	160
PANEL ALD	141
PANEL ALE	180
TOTAL CALCULATED PEAK DEMAND (EXISTING)	755
TOTAL REMOVED LOAD	0
PROPOSED LOADS	
PROPOSED LOAD (GENERATOR ANCILLARY LOADS)	4
TOTAL PROPOSED LOAD	4
FUTURE LOADS	0
TOTAL GEN LOAD (EXISTING-REMOVED+PROPOSED+FUTURE)	759
PERCENT LOADED % (TOTAL LOAD/1000A)	75.9%

*EXISTING SITE DEMAND REFERENCED FROM 'CITY OF BUCKEYE SUNDANCE CROSSINGS MUNICIPAL TENANT IMPROVEMENT 3-17-2014 AS-BUILT PLANS.

B — GENERATOR LOAD SUMMARY
SCALE:NOT TO SCALE

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	Isc	**% Vdrop
1	Utility Published Data	56194	56,194										56,194	
2	SES	1	56,194	NM	Copper	4	Set of	600 KCML	1600	20	480	3	54,233	0.14%
3	ATS-SES-A1-1	2	54,233	NM	Copper	1	Set of	3/0	200	20	480	3	42,332	0.26%

C — FAULT CURRENT CALCULATION
SCALE:NOT TO SCALE

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL ONE LINE DIAGRAM

ENGINEER INFORMATION
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COB PERMITTING APPROVED SEAL
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AS-BUILT SEAL
DESIGN SEAL
Registered Professional Engineer CERTIFICATE NO. 30360 Michael K. Colonno Date Signed 07/07/20 ARIZONA, USA
Expires 12/31/21

SUBMITTAL: FINAL

ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	4 of 8

COB PLAN TRACKING #
COB PERMIT #

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(OUTSIDE MARICOPA COUNTY)

ELECTRICAL UPGRADES CONDUIT AND CABLE SCHEDULE

CONDUIT			CONDUCTORS/CABLE				REMARKS
NO.	SIZE	STATUS	QTY	SIZE	FROM	TO	PURPOSE	
E-01	2.5"	NEW	4	#3/0 AWG	SES-A1 200A PANEL ALA DRAWOUT FUSE	ATS-SES-A1-1	POWER	UTILIZE EXISTING ALA FEEDER CONDUIT, BREAK CONDUIT AND REROUTE NEW CONDUIT TO ATS-SES-A1-1. SEE ONE-LINE DIAGRAM
			1	#6 AWG			GROUND	
E-02	2.5"	NEW	4	#3/0 AWG	SES-A1 200A PANEL ALB DRAWOUT FUSE	ATS-SES-A1-2	POWER	UTILIZE EXISTING ALA FEEDER CONDUIT, BREAK CONDUIT AND REROUTE NEW CONDUIT TO ATS-SES-A1-2. SEE ONE-LINE DIAGRAM
			1	#6 AWG			GROUND	
E-03	2.5"	NEW	4	#3/0 AWG	SES-A1 200A PANEL ALC DRAWOUT FUSE	ATS-SES-A1-3	POWER	UTILIZE EXISTING ALA FEEDER CONDUIT, BREAK CONDUIT AND REROUTE NEW CONDUIT TO ATS-SES-A1-3. SEE ONE-LINE DIAGRAM
			1	#6 AWG			GROUND	
E-04	2.5"	NEW	4	#3/0 AWG	SES-A1 200A PANEL ALD DRAWOUT FUSE	ATS-SES-A1-4	POWER	UTILIZE EXISTING ALA FEEDER CONDUIT, BREAK CONDUIT AND REROUTE NEW CONDUIT TO ATS-SES-A1-4. SEE ONE-LINE DIAGRAM
			1	#6 AWG			GROUND	
E-05	2.5"	NEW	4	#3/0 AWG	SES-A1 200A PANEL ALE DRAWOUT FUSE	ATS-SES-A1-5	POWER	UTILIZE EXISTING ALA FEEDER CONDUIT, BREAK CONDUIT AND REROUTE NEW CONDUIT TO ATS-SES-A1-5. SEE ONE-LINE DIAGRAM
			1	#6 AWG			GROUND	
E-06	2.5"	NEW	4	#3/0 AWG	ATS-SES-A1-1	PANEL ALA	POWER	CONDUIT TO BE RUN WITH E-01
			1	#6 AWG			GROUND	
E-07	2.5"	NEW	4	#3/0 AWG	ATS-SES-A1-2	PANEL ALB	POWER	CONDUIT TO BE RUN WITH E-02
			1	#6 AWG			GROUND	
E-08	2.5"	NEW	4	#3/0 AWG	ATS-SES-A1-3	PANEL ALC	POWER	CONDUIT TO BE RUN WITH E-03
			1	#6 AWG			GROUND	
E-09	1"	NEW	4	#3/0 AWG	ATS-SES-A1-4	PANEL ALD	POWER	CONDUIT TO BE RUN WITH E-04
			1	#6 AWG			GROUND	
E-10	1"	NEW	4	#3/0 AWG	ATS-SES-A1-5	PANEL ALE	POWER	CONDUIT TO BE RUN WITH E-05
			1	#6 AWG			GROUND	
E-11	2.5"	NEW	4	#3/0 AWG	EDP-SES-A1	ATS-SES-A1-1	POWER	SEE ONE-LINE DIAGRAM AND PANEL SCHEDULE FOR EDP-SES-A1
			1	#6 AWG			GROUND	
E-12	2.5"	NEW	4	#3/0 AWG	EDP-SES-A1	ATS-SES-A1-2	POWER	SEE ONE-LINE DIAGRAM AND PANEL SCHEDULE FOR EDP-SES-A1
			1	#6 AWG			GROUND	
E-13	2.5"	NEW	4	#3/0 AWG	EDP-SES-A1	ATS-SES-A1-3	POWER	SEE ONE-LINE DIAGRAM AND PANEL SCHEDULE FOR EDP-SES-A1
			1	#6 AWG			GROUND	
E-14	2.5"	NEW	4	#3/0 AWG	EDP-SES-A1	ATS-SES-A1-4	POWER	SEE ONE-LINE DIAGRAM AND PANEL SCHEDULE FOR EDP-SES-A1
			1	#6 AWG			GROUND	
E-15	2.5"	NEW	4	#3/0 AWG	EDP-SES-A1	ATS-SES-A1-5	POWER	SEE ONE-LINE DIAGRAM AND PANEL SCHEDULE FOR EDP-SES-A1
			1	#6 AWG			GROUND	
E-16A	2.5"	NEW	4	#3/0 AWG	GENERATOR	EDP-SES-A1	POWER	PARALLEL CONDUIT TO EDP-SES-A1
			1	#2/0 AWG			GROUND	
E-16B	2.5"	NEW	4	#3/0 AWG	GENERATOR	EDP-SES-A1	POWER	PARALLEL CONDUIT TO EDP-SES-A1
			1	#2/0 AWG			GROUND	
E-16C	2.5"	NEW	4	#3/0 AWG	GENERATOR	EDP-SES-A1	POWER	PARALLEL CONDUIT TO EDP-SES-A1
			1	#2/0 AWG			GROUND	
E-16D	2.5"	NEW	4	#3/0 AWG	GENERATOR	EDP-SES-A1	POWER	PARALLEL CONDUIT TO EDP-SES-A1
			1	#2/0 AWG			GROUND	
E-16E	2.5"	NEW	4	#3/0 AWG	GENERATOR	EDP-SES-A1	POWER	PARALLEL CONDUIT TO EDP-SES-A1
			1	#2/0 AWG			GROUND	
E-17	1"	NEW	4	#8 AWG	PANEL ALE	GENERATOR	POWER	GENERATOR ANCILLARY LOADS: PANEL ALE, CKT 39, 41
			1	#8 AWG			GROUND	
C-1	1"	NEW	8-PR	#16 AWG	ATS-SES-A1-1	GENERATOR	CONTROLS	GENERATOR CONTROLS
C-2	1"	NEW	8-PR	#16 AWG	ATS-SES-A1-2	GENERATOR	CONTROLS	GENERATOR CONTROLS
C-3	1"	NEW	8-PR	#16 AWG	ATS-SES-A1-3	GENERATOR	CONTROLS	GENERATOR CONTROLS
C-4	1"	NEW	8-PR	#16 AWG	ATS-SES-A1-4	GENERATOR	CONTROLS	GENERATOR CONTROLS
C-5	1"	NEW	8-PR	#16 AWG	ATS-SES-A1-5	GENERATOR	CONTROLS	GENERATOR CONTROLS

A
–
CONDUIT AND CONDUCTOR SCHEDULE
COYOTE BRANCH (21699 W. YUMA ROAD)
SCALE:N.T.S

PANEL: EDP-SES-A1

VOLTAGE: 120/208V
PHASE, WIRES: 3ø, 4W
SCCR (AMPS): 22,000
SOURCE: STANDBY GENERATOR

PANEL BUS: 1000 AMPS
MAIN: MLO BREAKER

DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION
PANEL ALA	17637	200/3	1	147			2			
	17186		3		143		4			
	16648		5			139	6			
PANEL ALB	14889	200/3	7	124			8			
	15282		9		127		10			
	14879		11			124	12			
PANEL ALC	19160	200/3	13	160			14			
	17565		15		146		16			
	19160		17			160	18			
PANEL ALD	14236	200/3	19	119			20			
	16284		21		136		22			
	16858		23			140	24			
PANEL ALE	21143	200/3	25	176			26			
	18548		27		155		28			
	21554		29			180	30			
			31	0			32			
			TOTALS	725.5	707.2	742.5	AMPS			

LOAD CALCULATIONS: SUBTOTAL (VA): 261029
TOTAL (VA): 261029 @ 208V, 3Ø = 725.1 AMPS

B
–
PANEL SCHEDULE EDP-SES-A1
COYOTE BRANCH (21699 W. YUMA ROAD)
SCALE:N.T.S

PANEL: "ALE"

VOLTAGE: 120/208
PHASE, WIRES: 3ø, 4W
SCCR (AMPS): 22,000
SOURCE: SES

PANEL BUS: 225 AMPS
MAIN: M.L.O. BREAKER

DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION
RECEPTS-BREAK-REFRIGERATOR	800	20/1	1	7			2	20/1		SPARE
RECEPTS-BREAK-COUNTER	500	20/1	3		4		4	20/1		SPARE
RECEPTS-BREAK-COUNTER	500	20/1	5			4	6	20/1		SPARE
RECEPTS-BREAK-DISH/DISP	1200	20/1	7	10			8	20/1		SPARE
RECEPTS-BREAK-DISH/DISP	540	20/1	9		5		10	20/1		SPARE
RECEPTS-PROGRAM, HALL	720	20/1	11			31	12		2988	
RECEPTS-I.T. SERVICE	500	20/1	13	29			14	45/3	2988	RELOCATED HP-5T
RECEPTS-I.T. SERVICE	500	20/1	15		29		16		2988	
RECEPS-HALL, STORAGE	720	20/1	17			19	18	30/2	1560	I.T. SERVICE
RECEPS-PROGRAM ROOM	540	20/1	19	18			20		1560	
RECEPS-PROGRAM ROOM	540	20/1	21		18		22	30/2	1560	I.T. SERVICE
RECEPS-PROGRAM ROOM	500	20/1	23			17	24		1560	
RECEPS-PROGRAM ROOM	500	20/1	25	32			26		3360	
RECEPS-PROGRAM ROOM	500	20/1	27		32		28	50/3	3360	EXISTING HP-6.5T
RECEPS-PROGRAM ROOM	500	20/1	29			32	30		3360	
RECEPS-PROGRAM ROOM	500	20/1	31	32			32		3360	
RECEPS-PROGRAM ROOM	500	20/1	33		32		34	50/3	3360	EXISTING HP-6.5T
LIGHTING-PROGRAM ROOM	1586	20/1	35			41	36		3360	
LIGHTING-STORAGE,I.T., BREAK	1635	20/1	37	49			38		4200	
GENERATOR BLOCK HEATER	**240**	**20/1**	39		37		40	50/3	4200	EXISTING HP-6.5T
GENERATOR BATTERY CHARGER	**240**	**20/1**	41			37	42		4200	
			TOTALS	176.2	156.6	181.6	AMPS			

LOAD CALCULATIONS:
SUBTOTAL (VA): 61725
+25% PER NEC (VA): 15431
TOTAL (VA): 77156 @ 208V, 3Ø = 214.4 AMPS

D
–
PANEL SCHEDULE: ALE
SCALE:NOT TO SCALE

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL SCHEDULES

ENGINEER INFORMATION
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SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL

Registered Professional Engineer CERTIFICATE NO. 30360 Michael K. Colonno Date Signed 07/07/20 ARIZONA, USA
Expires 12/31/21

ORIGINAL PLAN DATE 07/07/2020
LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012
SHEET NUMBER 5 of 8

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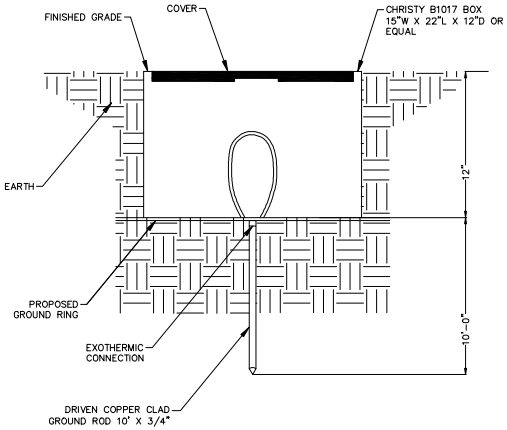
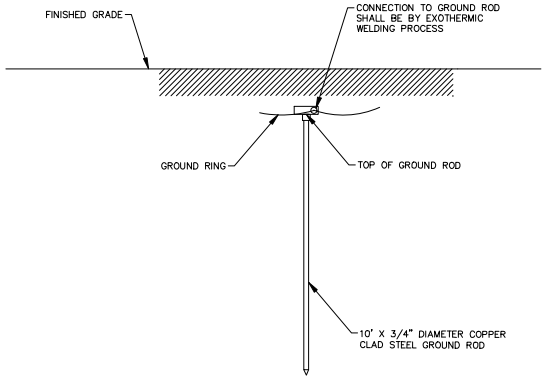


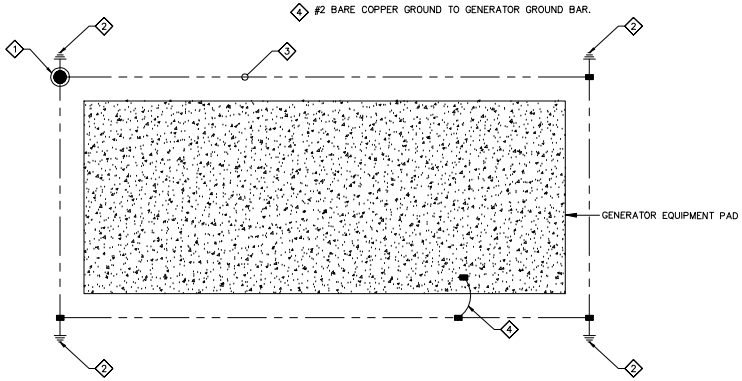
A — GROUNDING TEST WELL DETAIL
SCALE:N.T.S.



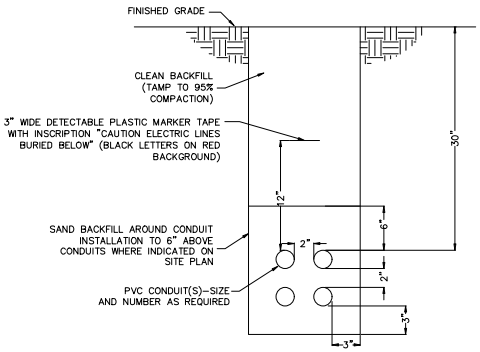
B — GROUND ROD DETAIL
SCALE:N.T.S.

GROUNDING NOTES

1. PROVIDE GROUND TEST POINT PER GROUDING TEST WELL DETAIL.
2. PROVIDE 10' X 3/4" COPPER CLAD GROUND ROD PER GROUND ROD DETAIL .
3. #2 BARE COPPER GROUND GRID BURIED AT 30" BELOW FINISHED GRADE.
4. #2 BARE COPPER GROUND TO GENERATOR GROUND BAR.



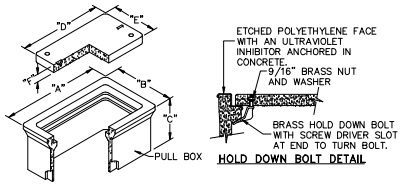
C — GENERATOR GROUNDING PLAN
SCALE:N.T.S.



ALL DIMENSIONS ARE
MINIMUM

NOTE:
1) THIS CONDUIT DUCT BANK DETAIL SHALL BE REFERENCED FOR ALL UNDER GROUND CONDUIT INSTALLATIONS.

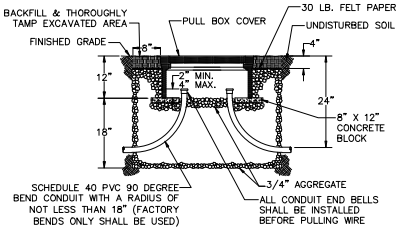
D — TYPICAL UNDERGROUND CONDUIT INSTALLATION DETAIL
SCALE:NOT TO SCALE





LID 'A' REINFORCED CONCRETE W/HOLD DOWN BOLTS

DATA TABLE						
PULLBOX TYPE	PULLBOX LENGTH	PULLBOX WIDTH	PULLBOX HEIGHT	LID LENGTH	LID WIDTH	LID HEIGHT
	"A"	"B"	"C"	"D"	"E"	"F"
#3 1/2	19-3/4"	14-1/4"	12"	15-1/4"	10"	1-3/4"
#5	25-1/4"	15-3/4"	12"	20-5/8"	10-1/2"	2"
#7	34-3/4"	21-3/4"	12"	30-1/8"	17-5/8"	2"



GENERAL NOTES:

1. THE PULL BOX SHALL BE MADE OF A HIGH DENSITY REINFORCED CONCRETE MATERIAL WITH END & SIDE KNOCKOUTS, & NONSETTLING SHOULDERS TO MAINTAIN GRADE, MANUFACTURED WITH APPROXIMATE DIMENSIONS AS SHOWN.
2. STEEL REINFORCEMENT SHALL BE AS REGULARLY USED IN STANDARD PRODUCTS OF THE RESPECTIVE MANUFACTURER.
3. COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS: "ELECTRIC" OR "HIGH VOLTAGE", AS REQUIRED.
4. THE PULL BOX SHALL HAVE AN ETCHED POLYETHYLENE FACE WITH AN ULTRAVIOLET INHIBITOR ANCHORED IN CONCRETE.

E — PULL BOX INSTALLATION DETAIL
SCALE:NOT TO SCALE

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL DETAILS

ENGINEER INFORMATION
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SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL

DESIGN SEAL
Registered Professional Engineer
CERTIFICATE NO.
Michael K. Colonno
Date Signed 07/07/20
ARIZONA, U.S.A.
Expires 12/31/21

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(OUTSIDE MARICOPA COUNTY)

ORIGINAL PLAN DATE: 07/07/2020
LATEST REVISION DATE: 07/07/2020
PROJECT NUMBER: 191342012
SHEET NUMBER: 6 of 8

COB PLAN TRACKING #
COB PERMIT #

STRUCTURAL GENERAL NOTES

DESIGN SPECIFICATIONS

2018 INTERNATIONAL BUILDING CODE (IBC) WITH THE CITY OF BUCKEYE AMENDMENTS.

DESIGN LOADS

WIND LOADS: (PER ASCE 7-16)
- BASIC WIND SPEED = ULTIMATE DESIGN WIND SPEED . . . . . .101 MPH
- RISK CATEGORY II
- Iw 1.00
- STRUCTURE TYPE . . . . . .SOLID FREE-STANDING WALL
- EXPOSURE . . . . . ."C"

MAIN WIND FORCE RESISTING SYSTEM:
- DESIGN WIND PRESSURE . . . . . .15.63 psf (STRENGTH LEVEL)
- INTERNAL PRESSURE COEFFICIENT 0.00

EARTHQUAKE DESIGN DATA:
- Ie 1.00
- SITE CLASS . . . . . .D
- Ss . . . . . 0.171g S1 . . . . . .0.075g
- Sms . . . . . 0.182g Sm1 . . . . . .0.121g
- SEISMIC DESIGN CATEGORY . . . . . .B
- DESIGN BASE SHEAR (Cs"W") 0.051W
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

EARTH LOADS:
- ALLOWABLE BEARING PRESSURE = 1500 PSF
- ACTIVE EARTH PRESSURE = 45 PCF
- AT-REST EARTH PRESSURE = 60 PCF
- PASSIVE EARTH PRESSURE = 100 PCF
- = 0.25 (W/OUT PASSIVE PRESSURE)
- MODULUS OF SUBGRADE REACTION = 100 PCI

FOUNDATIONS

ALL EXCAVATION SHALL BE PROPERLY BACKFILLED. FOOTING BACKFILL WITHIN THE FOOTING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE SPECIAL INSPECTOR. FLOODING WILL NOT BE PERMITTED.

SLAB ON GRADE SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. SLAB ON GRADE PREPARATION SHALL BE PREPARED AS STATED IN THE PROJECT SPECIFICATIONS. FOR SLAB-ON-GRADE, THE UPPER 12 INCHES OF SUBGRADE SOILS AND AGGREGATE SUBBASE SHOULD CONSIST OF IMPORTED LOW VOLUME CHANGE MATERIALS." EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE SPECIAL INSPECTOR PRIOR TO PLACING THE CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR WHEN THE EXCAVATIONS ARE READY FOR INSPECTION. THE SPECIAL INSPECTOR SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE SPECIAL INSPECTOR, FOOTING ELEVATIONS, OR FOOTING DESIGNS WILL BE ALTERED BY CHANGE ORDER.

CONCRETE REINFORCING

SEE MAG STANDARD SPECIFICATIONS SECTION 505 AND 725 CLASS A (TYPE II) CONCRETE.

MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH, f'c = 3000 PSI.
REINFORCING STEEL, ASTM A615 GRADE 60, fy = 60,000 PSI.

JOINT NOTES

CONCRETE:
SLAB ON GRADE MAY BE CONTINUOUS WITH NO JOINT.

DIMENSIONS

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND ELEVATIONS WITH THE CIVIL GRADING DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY PRIOR TO START OF CONSTRUCTION.

GENERAL

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ARIZONA.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PROVIDED PER 2018 INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17.

A. CONCRETE CONSTRUCTION (TABLE 1705.3)
B. SOILS (TABLE 1705.6)

POST-INSTALLED ANCHORS

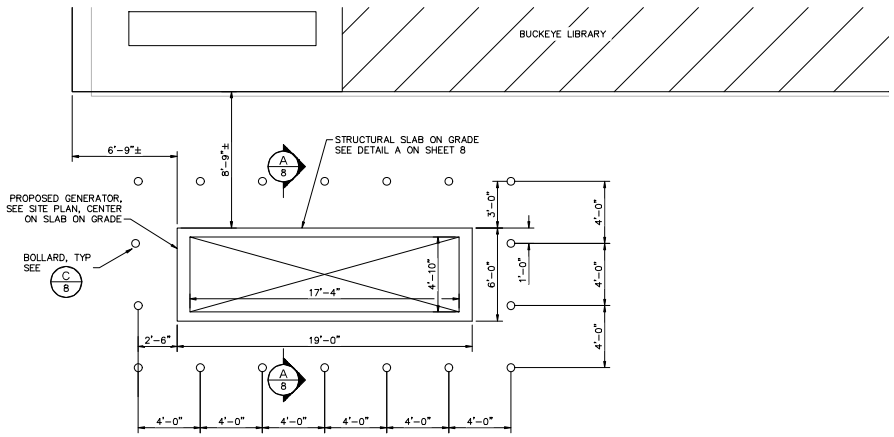
1. UNLESS NOTED OTHERWISE ON PLANS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES, OR APPROVED EQUAL:

	ADHESIVE ANCHOR	MECHANICAL ANCHOR
SOLID CONCRETE	HILTI RE 500 V3 HILTI HY 200 SAFE SET SYSTEM	HILTI KWIK HUS EZ HILTI KWIK BOLT TZ

2. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.
3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
4. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
5. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
6. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AWAY FROM THE LOCATIONS OF THE CONCRETE ANCHORS.

ABBREVIATIONS

ASTM.....AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL
CLR.....CLEARANCE
CONT.....CONTINUOUS
MAX.....MAXIMUM
MIN.....MINIMUM
MPH.....MILES PER HOUR
O.C.....ON CENTER
PCF.....POUNDS PER CUBIC FOOT
PSF.....POUNDS PER SQUARE FOOT
PSI.....POUNDS PER SQUARE INCH
TYP.....TYPICAL
LOL.....LAYOUT LINE
T/F.....TOP OF FOUNDATION
T/W.....TOP OF WALL



PROPOSED GENERATOR LOCATION
COYOTE BRANCH (21699 W. YUMA ROAD)
A
–
SCALE:1/4"=1'-0"

NORTH

NOTE:

CONTRACTOR SHALL VERIFY LOCATION OF SLAB WITH ENGINEER PRIOR TO CONSTRUCTION. SLAB ON GRADE SHALL BE 8'-9" FROM EXISTING BUILDING. NOTIFY ENGINEER OF ANY DISCREPANCIES.

REVISIONS:
1
2
3

PLAN NAME
STRUCTURAL NOTES AND PLAN

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

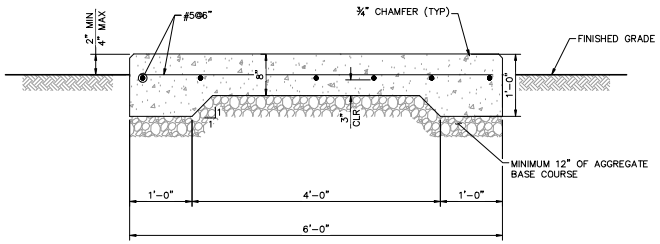
SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Professional Engineer CERTIFICATE NO. 60164 NATHAN MERRILL Registered Professional Engineer ARIZONA, USA

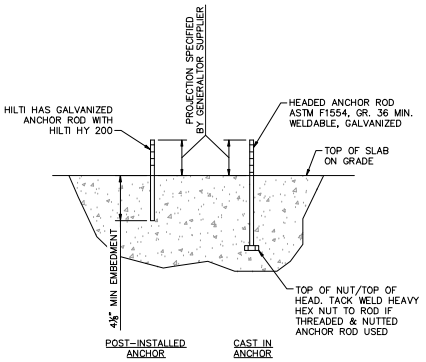
ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	7 of 8

COB PLAN TRACKING #
COB PERMIT #

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)



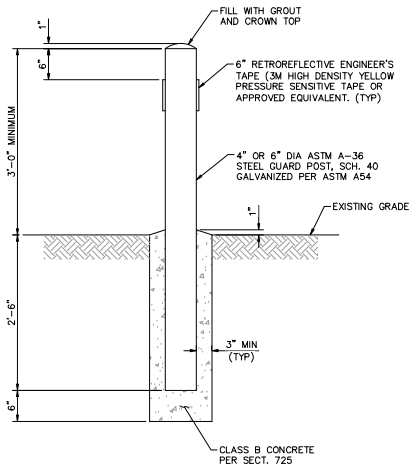
A
–
GENERATOR CONCRETE PAD
SCALE:1'=1'



B
–
TYP ANCHOR DETAIL
SCALE:NOT TO SCALE

NOTES:

1. POST-INSTALLED ADHESIVE ANCHOR RODS ARE ACCEPTABLE IN LIEU OF CAST-IN HEADED ANCHOR RODS AT GENERATOR ANCHOR LOCATIONS.
2. POST-INSTALLED ADHESIVE ANCHOR RODS SHALL STRICTLY FOLLOW MANUFACTURER'S INSTRUCTIONS FOR HOLE SIZE, DRILLING OPERATIONS, PREPARATION, AND MATERIAL HANDLING.
3. SETTING TEMPLATES SHALL BE USED TO SUPPORT ANCHOR RODS DURING CONCRETE PLACEMENT.
4. ANCHOR RODS SHALL BE INSTALLED PLUMB TO FACILITATE THE WASHER AND NUT RESTING FLUSH ON THE BASE PLATE.
5. ALTERNATE POST-INSTALLED ANCHORAGE SYSTEM OF EQUAL PROPERTIES MAY BE USED IN LEIU OF DETAIL SHOWN UPON ENGINEERS APPROVAL.
6. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.



C
–
BOLLARD
SCALE:1'=1'

REVISIONS:

1

2

3

PLAN NAME

STRUCTURAL DETAILS

ENGINEER INFORMATION

Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

SUBMITTAL: FINAL

AS-BUILT SEAL

DESIGN SEAL

Registered Professional Engineer (Civil)
CERTIFICATE NO.
60164
NATHAN MERRILL
Date Signed 07/07/20
ARIZONA, U.S.A.

ORIGINAL PLAN DATE 07/07/2020

LATEST REVISION DATE 07/07/2020

PROJECT NUMBER 191342012

SHEET NUMBER 8 of 8

COB PLAN TRACKING #

COB PERMIT #

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

COYOTE BRANCH (21699 W. YUMA ROAD)

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

263

567

City of Buckeye Emergency Generator Repair: Buckeye, AZ

STRUCTURAL CALCULATIONS FOR: Coyote Branch Generator Pad

Prepared By:
Nathan Merrill, PE
Ph: 602-371-4573
Kimley-Horn and Associates, Inc.
7740 N. 16th St
Suite 300
Phoenix AZ, 85020



Date: May 2020

Kimley»Horn

Design References:

1. 2018 International Building Code

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1. DESIGN LOADS

Kimley»Horn

Project: ***Emergency Generator Repair - Coyote Branch*** *Subject:* ***Generator Pad Load Summary***

Designed by: ***ALF*** *Date:* ***04/29/2020*** *Checked by:* *Date:*

Table of Contents

Defined Units

Assumptions

Assume Generator is supplying power to Risk Category II structures, therefore generator is RC II.

Assume Generator is anchored to concrete pad at the 4 corners of the acoustic generator pad, not acoustic enclosure.

Assume X direction aligns with generator length, and Y direction aligns with generator width.

Acoustic Enclosure dimensions used to calculate wind loads.

Generator Specifications

$L_{gen} := 208in = 17.33\,ft$	Length of generator - 300 kW Diesel Generator Specification - see appendix.
$W_{gen} := 58in = 4.83\,ft$	Width of generator - 300 kW Diesel Generator Specification - see appendix.
$H_{gen} := 108in = 9\,ft$	Height of Generator - 300 kW Diesel Generator Specification - see appendix.
$L_{enc} := 208in = 17.33\,ft$	Length of Enclosure - 300 kW Diesel Generator Specification - see appendix..
$W_{enc} := 57.6in = 4.8\,ft$	Width of Enclosure - 300 kW Diesel Generator Specification - see appendix.
$H_{enc} := 148in = 12.33\,ft$	Height of Enclosure - 300 kW Diesel Generator Specification - see appendix.
$n_{anchors} := 4$	Number of Anchors assumed.

Soils Information

Assume conservative values from IBC Section 1610 & 1806

$p_a := 45pcf$	Active Soil Pressure
$p_{ar} := 60pcf$	At-Rest Soil Pressure
$p_p := 100pcf$	Passive Soil Pressure
$w_{soil} := 120pcf$	Unit Weight of Soil
$\mu := 0.25$	Soil Sliding Friction Factor

Generator Loading

$q_{wind} := 15.63psf$ — Applied Wind pressure. Maximum Tedds Run - see Wind Loading Calculations

$V_{seismic} := 0.9kip$ — Seismic Base Shear - see Seismic Loading Calculations. Apply at mid height of equipment to calculate anchor reactions.

$Weight_{gen} := 17.979kip$ — 300 kW Diesel Generator Specification - see appendix.

$$X_{wind} := \frac{\left(q_{wind} \cdot W_{enc} \cdot H_{enc}\right)}{n_{anchors}} = 0.23 \cdot kip$$

$$Y_{wind} := \frac{\left(q_{wind} \cdot L_{enc} \cdot H_{enc}\right)}{n_{anchors}} = 0.84 \cdot kip$$

$$Z_{wind} := \frac{\left[\frac{\left[\left(q_{wind} \cdot L_{enc} \cdot H_{enc}\right) \cdot \frac{H_{enc}}{2}\right]}{\left(\frac{W_{gen}}{2}\right)}\right]}{\frac{n_{anchors}}{2}} = 4.26 \cdot kip$$

Governing uplift- assumed wind is acting on Length of enclosure. Couple analyzed in Y direction for governing uplift - used for anchor design. Dead Load not added - conservative

$$Z_{seismic} := \frac{\left[\frac{\left[\left(V_{seismic}\right) \cdot \frac{H_{enc}}{2}\right]}{\left(\frac{W_{gen}}{2}\right)}\right]}{\frac{n_{anchors}}{2}} = 1.15 \cdot kip$$

Seismic uplift/compression - couple analyzed in Y direction for governing uplift

By inspection Wind Governs anchor and slab design.

$$Z_{strength} := \left(1.2 \cdot \frac{Weight_{gen}}{n_{anchors}}\right) + Z_{wind} = 9.66 \cdot kip$$

Vertical Shear transferred through anchor. Used for slab design

Bearing Check

Check governs over enercalc design - uses full slab area instead of 1 ft tributary width

$L_{pad} := 19ft$ — Length of pad

$W_{pad} := 6ft$ — Width of pad

Assumed bearing Capacity

$\sigma_{brg} := 1500psf$

$C_{brg} := \sigma_{brg} \cdot L_{pad} \cdot W_{pad} = 171 \cdot kip$ — Bearing Capacity

$D_{brg} := Z_{strength} \cdot n_{anchors} = 38.63 \cdot kip$ — Bearing Demand

$CH_{brg} := if\left(C_{brg} > D_{brg}, "OK", "NG"\right) = "OK"$

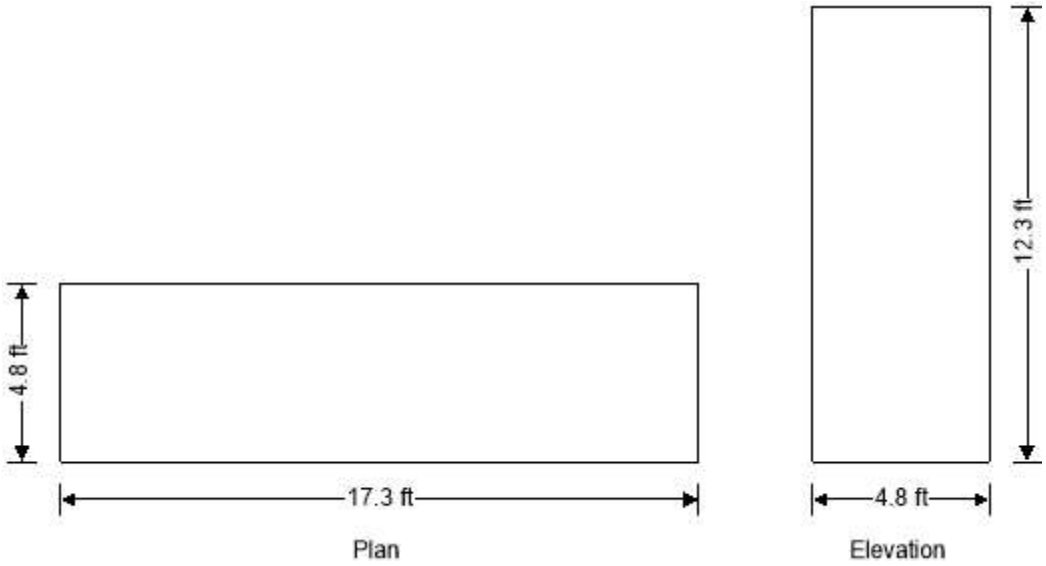
1.1 WIND LOADS

WIND LOADING

In accordance with ASCE7-16

Using the directional design method

Tedds calculation version 2.1.03



Building data

Type of roof	Flat
Length of building	b = **17.33** ft
Width of building	d = **4.80** ft
Height to eaves	H = **12.33** ft
Mean height	h = **12.33** ft

General wind load requirements

Basic wind speed	V = **101.0** mph
Risk category	II
Velocity pressure exponent coef (Table 26.6-1)	K_d = **0.85**
Ground elevation above sea level	z_{gl} = **1035** ft
Ground elevation factor	$K_e = \exp(-0.0000362 \times z_{gl}/1ft)$ = **0.96**
Exposure category (cl 26.7.3)	C
Enclosure classification (cl.26.12)	Enclosed buildings
Internal pressure coef +ve (Table 26.13-1)	GC_{pi_p} = **0.18**
Internal pressure coef –ve (Table 26.13-1)	GC_{pi_n} = **-0.18**
Gust effect factor	G_f = **0.85**
Minimum design wind loading (cl.27.4.7)	p_{min_r} = **8** lb/ft^2

Topography

Topography factor not significant	K_{zt} = 1.0
Velocity pressure equation	$q = 0.00256 \times K_z \times K_{zt} \times K_d \times V^2 \times 1psf/mph^2$

Velocity pressures table

z (ft)	K_z (Table 26.10-1)	q_z (psf)

z (ft)	K_z (Table 26.10-1)	q_z (psf)
12.33	0.85	18.17

Peak velocity pressure for internal pressure

Peak velocity pressure – internal (as roof press.) q_i = **18.17** psf

Pressures and forces

Net pressure $p = q \times G_f \times C_{pe} - q_i \times GC_{pi}$

Net force $F_w = p \times A_{ref}$

Roof load case 1 - Wind 0, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (-ve)	12.33	-1.30	18.17	-23.35	83.18	-1.94

Total vertical net force $F_{w,v}$ = **-1.94** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 1 - Wind 0, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	12.33	0.80	18.17	9.09	213.68	1.94
B	12.33	-0.50	18.17	-11.00	213.68	-2.35
C	12.33	-0.70	18.17	-14.08	59.18	-0.83
D	12.33	-0.70	18.17	-14.08	59.18	-0.83

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_0} = b \times H$ = **213.68** ft^2

Projected vertical area of roof $A_{vert\_r\_0}$ = **0.00** ft^2

Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_0} + p_{min\_r} \times A_{vert\_r\_0}$ = **3.42** kips

Leeward net force $F_l = F_{w,wB}$ = **-2.3** kips

Windward net force $F_w = F_{w,wA}$ = **1.9** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min})$ = **4.3** kips

Roof load case 2 - Wind 0, GC_{pi} -0.18, $-0c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (+ve)	12.33	-0.18	18.17	0.49	83.18	0.04

Total vertical net force $F_{w,v}$ = **0.04** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 2 - Wind 0, GC_{pi} -0.18, $-0c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	12.33	0.80	18.17	15.63	213.68	3.34

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
B	12.33	-0.50	18.17	-4.45	213.68	-0.95
C	12.33	-0.70	18.17	-7.54	59.18	-0.45
D	12.33	-0.70	18.17	-7.54	59.18	-0.45

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_0} = b \times H =$ **213.68** ft^2

Projected vertical area of roof $A_{vert\_r\_0} =$ **0.00** ft^2

Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_0} + p_{min\_r} \times A_{vert\_r\_0} =$ **3.42** kips

Leeward net force $F_l = F_{w,wB} =$ **-1.0** kips

Windward net force $F_w = F_{w,wA} =$ **3.3** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min}) =$ **4.3** kips

Roof load case 3 - Wind 90, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (-ve)	12.33	-1.07	18.17	-19.79	29.59	-0.59
B (-ve)	12.33	-0.82	18.17	-15.87	29.59	-0.47
C (-ve)	12.33	-0.58	18.17	-12.30	24.00	-0.30

Total vertical net force $F_{w,v} =$ **-1.35** kips

Total horizontal net force $F_{w,h} =$ **0.00** kips

Walls load case 3 - Wind 90, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	12.33	0.80	18.17	9.09	59.18	0.54
B	12.33	-0.22	18.17	-6.66	59.18	-0.39
C	12.33	-0.70	18.17	-14.08	213.68	-3.01
D	12.33	-0.70	18.17	-14.08	213.68	-3.01

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_90} = d \times H =$ **59.18** ft^2

Projected vertical area of roof $A_{vert\_r\_90} =$ **0.00** ft^2

Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_90} + p_{min\_r} \times A_{vert\_r\_90} =$ **0.95** kips

Leeward net force $F_l = F_{w,wB} =$ **-0.4** kips

Windward net force $F_w = F_{w,wA} =$ **0.5** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min}) =$ **0.9** kips

Roof load case 4 - Wind 90, GC_{pi} -0.18, $+c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (+ve)	12.33	-0.18	18.17	0.49	29.59	0.01
B (+ve)	12.33	-0.18	18.17	0.49	29.59	0.01
C (+ve)	12.33	-0.18	18.17	0.49	24.00	0.01

Total vertical net force $F_{w,v}$ = **0.04** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 4 - Wind 90, GC_{pi} -0.18, $+c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	12.33	0.80	18.17	15.63	59.18	0.93
B	12.33	-0.22	18.17	-0.12	59.18	-0.01
C	12.33	-0.70	18.17	-7.54	213.68	-1.61
D	12.33	-0.70	18.17	-7.54	213.68	-1.61

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_90} = d \times H$ = **59.18** ft^2

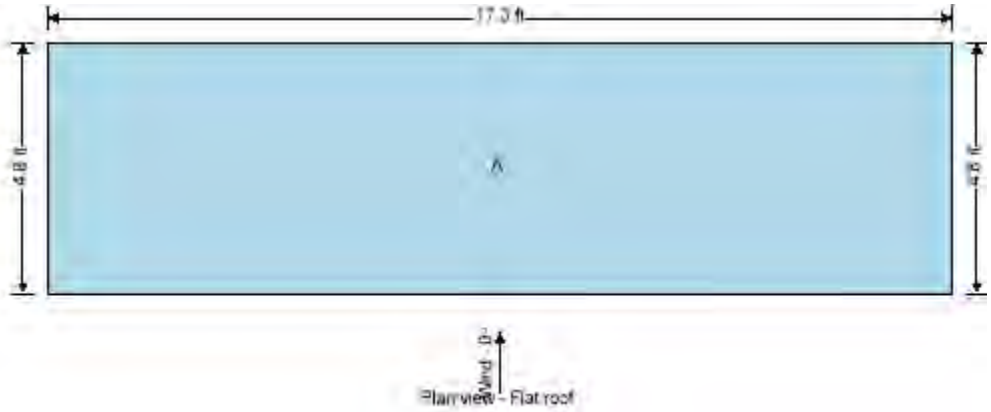
Projected vertical area of roof $A_{vert\_r\_90}$ = **0.00** ft^2

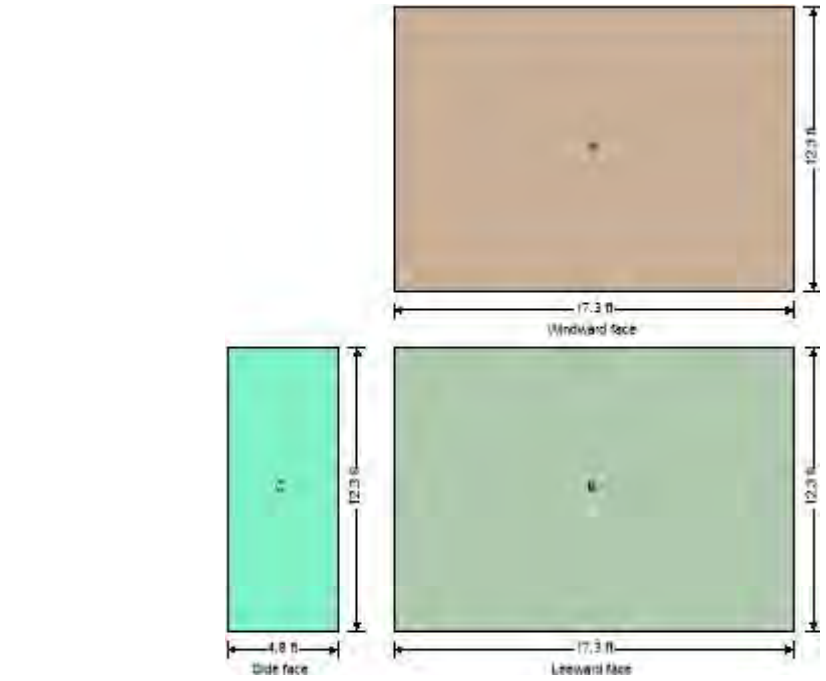
Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_90} + p_{min\_r} \times A_{vert\_r\_90}$ = **0.95** kips

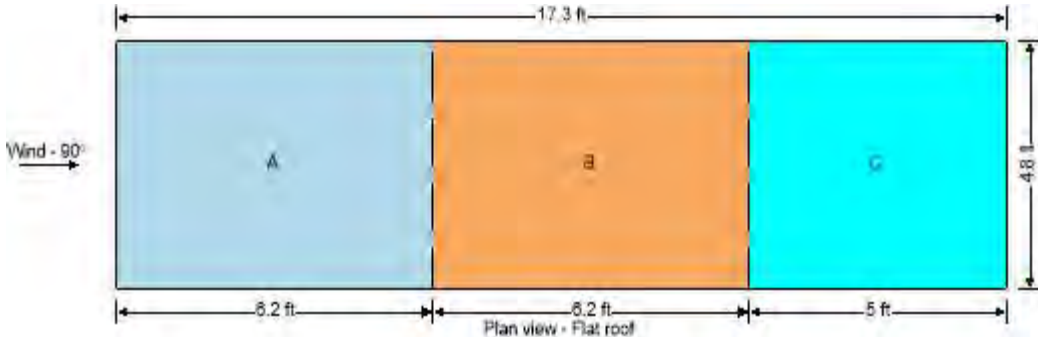
Leeward net force $F_l = F_{w,wB}$ = **0.0** kips

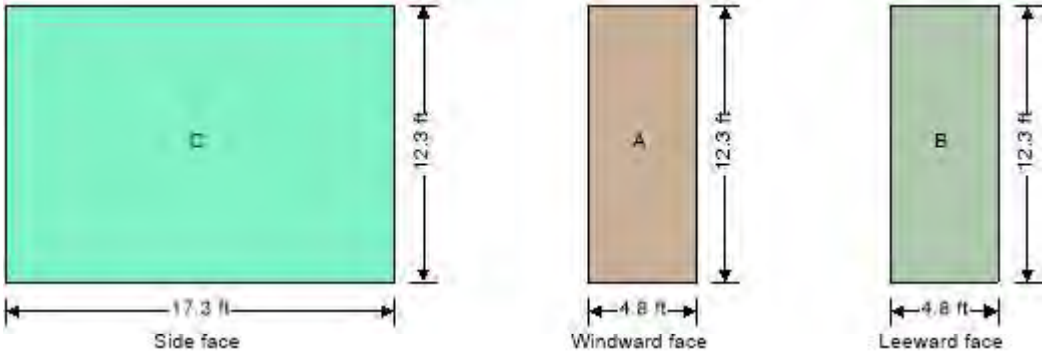
Windward net force $F_w = F_{w,wA}$ = **0.9** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min})$ = **0.9** kips




12.3 ft
17.3 ft
Windward face
C
12.3 ft
B
12.3 ft
4.8 ft
Side face
17.3 ft
Leeward face


17.3 ft
Wind - 90°
A
B
C
4.8 ft
6.2 ft
6.2 ft
5 ft
Plan view - Flat roof


C
12.3 ft
17.3 ft
Side face
A
12.3 ft
4.8 ft
Windward face
B
12.3 ft
4.8 ft
Leeward face

1.2 SEISMIC LOADS

SEISMIC FORCES (ASCE 7-16)

Tedds calculation version 3.1.00

Site parameters

Site class	D, Soil properties not known
Mapped acceleration parameters (Section 11.4.2)	
at short period	S_S = **0.171**
at 1 sec period	S_1 = **0.075**
Site coefficientat short period (Table 11.4-1)	F_a = **1.600**
at 1 sec period (Table 11.4-2)	F_v = **2.400**

Spectral response acceleration parameters

at short period (Eq. 11.4-1)	$S_{MS} = F_a \times S_S$ = **0.274**
at 1 sec period (Eq. 11.4-2)	$S_{M1} = F_v \times S_1$ = **0.180**

Design spectral acceleration parameters (Sect 11.4.4)

at short period (Eq. 11.4-3)	$S_{DS} = 2 / 3 \times S_{MS}$ = **0.182**
at 1 sec period (Eq. 11.4-4)	$S_{D1} = 2 / 3 \times S_{M1}$ = **0.120**

Seismic design category

Occupancy category (Table 1-1)	II
Seismic design category based on short period response acceleration (Table 11.6-1)	B
Seismic design category based on 1 sec period response acceleration (Table 11.6-2)	B
Seismic design category	B

Approximate fundamental period

Height above base to highest level of building	h_n = **12.33** ft
From Table 12.8-2:	
Structure type	Steel moment frame
Building period parameter C_t	C_t = **0.028**
Building period parameter x	x = **0.80**
Approximate fundamental period (Eq 12.8-7)	$T_a = C_t \times (h_n)^x \times 1\text{sec} / (1\text{ft})^x$= **0.209** sec
Building fundamental period (Sect 12.8.2)	$T = T_a$ = **0.209** sec
Long-period transition period	T_L = **6** sec

Seismic response coefficient

Seismic force-resisting system (Table 12.2-1)	C_MOMENT_RESISTING_FRAME_SYSTEMS 4. Steel ordinary moment frames
Response modification factor (Table 12.2-1)	R = **3.5**
Seismic importance factor (Table 1.5-2)	I_e = **1.000**
Seismic response coefficient (Sect 12.8.1.1)	
Calculated (Eq 12.8-3)	$C_{s\_calc} = S_{DS} / (R / I_e)$ = **0.0521**
Maximum (Eq 12.8-3)	$C_{s\_max} = S_{D1} / ((T / 1\text{ sec}) \times (R / I_e))$ = **0.1641**
Minimum (Eq 9.5.5.2.1-3)	$C_{s\_min} = \max(0.044 \times S_{DS} \times I_e, 0.01)$ = **0.0100**

Seismic response coefficient C_s = **0.0521**

Seismic base shear (Sect 12.8.1)

Effective seismic weight of the structure W = **18.0** kips

Seismic response coefficient C_s = **0.0521**

Seismic base shear (Eq 12.8-1) $V = C_s \times W$ = **0.9** kips

2. SLAB ON GRADE DESIGN

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - Coyote Branch

CODE REFERENCES

Calculations per ACI 318-14, IBC 2015, CBC 2016, ASCE 7-10
Load Combinations Used : ASCE 7-16

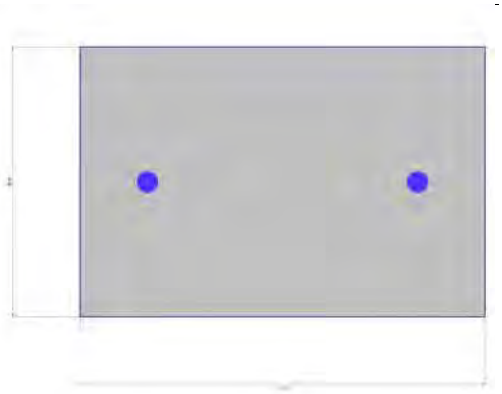
Material Properties

f'c	=	3.0 ksi	ϕ Phi Values	Flexure :	0.90
fr = f'c$^{1/2}$ * 7.50	=	410.792 psi		Shear :	0.750
ψ Density	=	145.0 pcf	β_1	=	0.850
λ Lt Wt Factor	=	1.0			
Elastic Modulus	=	3,122.0 ksi			

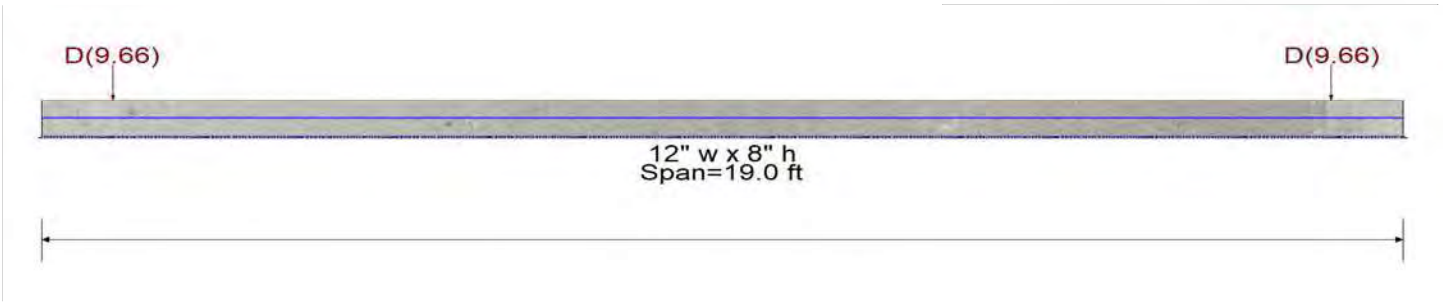
Soil Subgrade Modulus = 100.0 psi / (inch deflection)

Load Combination : ASCE 7-16

fy - Main Rebar	=	60.0 ksi	Fy - Stirrups	=	40.0 ksi
E - Main Rebar	=	29,000.0 ksi	E - Stirrups	=	29,000.0 ksi
			Stirrup Bar Size #	=	# 4
			Number of Resisting Legs Per Stirrup		2



Beam is supported on an elastic foundation,



Cross Section & Reinforcing Details

Rectangular Section, Width = 12.0 in, Height = 8.0 in
Span #1 Reinforcing....
2-#5 at 4.0 in from Top, from 0.0 to 19.0 ft in this span

Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Point Load : D = 9.660 k @ 1.0 ft
Point Load : D = 9.660 k @ 18.0 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.756 : 1	Maximum Deflection	
Section used for this span		Typical Section	Max Downward L+Lr+S Deflection	0.000 in
Mu : Applied		-7.159 k-ft	Max Upward L+Lr+S Deflection	0.000 in
Mn * Phi : Allowable		9.464 k-ft	Max Downward Total Deflection	0.327 in
Load Combination		D Only	Max Upward Total Deflection	-0.124 in
Location of maximum on span		4.694 ft		
Span # where maximum occurs		Span # 1		

Bearing pressures checked in Mathcad for full slab area

Maximum Soil Pressure = 4.709 ksf at 19.00 ft LdComb: D Only
Allowable Soil Pressure = 1.50 ksf EXCEEDED!

Shear Stirrup Requirements

Between 0.00 to 0.89 ft, PhiVc/2 < Vu <= PhiVc, Req'd Vs = Not Reqd 11.5.6.1, use stirrups spaced at 0.000 in
Between 1.12 to 1.34 ft, Vu > PhiVc, Req'd Vs = 0.1431, use stirrups spaced at 2.000 in
Between 1.56 to 17.21 ft, PhiVc/2 < Vu <= PhiVc, Req'd Vs = Not Reqd 11.5.6.1, use stirrups spaced at 0.000 in
Between 17.44 to 17.88 ft, Vu > PhiVc, Req'd Vs = 1.399, use stirrups spaced at 2.000 in
Between 18.11 to 18.55 ft, Vu < PhiVc/2, Req'd Vs = Not Reqd, use stirrups spaced at 0.000 in

Maximum Forces & Stresses for Load Combinations

Load Combination / Segment Length	Span #	Location (ft) in Span	Bending Stress Results (k-ft) Mu : Max	Phi*Mnx	Stress Ratio
MAXimum Bending Envelope					
Span # 1	1	18.106	1.39	9.46	0.15

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - Coyote Branch

Load Combination / Segment Length	Span #	Location (ft) in Span	Bending Stress Results (k-ft) Mu : Max	Phi*Mnx	Stress Ratio
D Only					
Span # 1	1	18.106	1.39	9.46	0.15

Overall Maximum Deflections - Unfactored Loads

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
Span 1	1	0.3270	19.000	Span 1	-0.1236	9.500

Detailed Shear Information

Load Combination	Span Number	Distance (ft)	'd' (in)	Vu (k) Actual	Vu (k) Design	Mu (k-ft)	d*Vu/Mu	Phi*Vc (k)	Comment	Phi*Vs (k)	Spacing (in) Req'd	Spacing (in) Suggest
D Only	1	0.00	4.00	0.41	0.41	0.00	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.22	4.00	1.20	1.20	0.09	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.45	4.00	1.95	1.95	0.36	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.67	4.00	2.67	2.67	0.80	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	0.89	4.00	3.35	3.35	1.39	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.12	4.00	-5.66	5.66	1.01	1.00	4.91	Vu > PhiVc	0.7530	0.00	2.00
D Only	1	1.34	4.00	-5.05	5.05	0.26	1.00	4.91	Vu > PhiVc	0.1431	0.00	2.00
D Only	1	1.56	4.00	-4.48	4.48	1.39	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.79	4.00	-3.94	3.94	2.39	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.01	4.00	-3.44	3.44	3.27	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.24	4.00	-2.97	2.97	4.04	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.46	4.00	-2.54	2.54	4.70	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.68	4.00	-2.14	2.14	5.27	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.91	4.00	-1.77	1.77	5.75	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.13	4.00	-1.43	1.43	6.14	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.35	4.00	-1.12	1.12	6.46	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.58	4.00	-0.85	0.85	6.71	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.80	4.00	-0.60	0.60	6.90	0.69	4.55	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.02	4.00	-0.37	0.37	7.03	0.43	4.24	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.25	4.00	-0.18	0.18	7.12	0.20	3.98	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.47	4.00	-0.00	0.00	7.16	0.01	3.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.69	4.00	0.14	0.14	7.16	0.16	3.93	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.92	4.00	0.27	0.27	7.13	0.31	4.10	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.14	4.00	0.38	0.38	7.07	0.43	4.25	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.36	4.00	0.47	0.47	6.98	0.53	4.37	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.59	4.00	0.54	0.54	6.88	0.62	4.47	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.81	4.00	0.59	0.59	6.76	0.70	4.56	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.04	4.00	0.62	0.62	6.63	0.75	4.62	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.26	4.00	0.65	0.65	6.49	0.80	4.67	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.48	4.00	0.66	0.66	6.34	0.83	4.71	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.71	4.00	0.65	0.65	6.19	0.84	4.72	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.93	4.00	0.64	0.64	6.05	0.84	4.72	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.15	4.00	0.61	0.61	5.91	0.83	4.71	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.38	4.00	0.57	0.57	5.77	0.80	4.67	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.60	4.00	0.53	0.53	5.64	0.75	4.62	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.82	4.00	0.48	0.48	5.52	0.70	4.56	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.05	4.00	0.42	0.42	5.42	0.63	4.47	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.27	4.00	0.36	0.36	5.32	0.54	4.38	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.49	4.00	0.29	0.29	5.24	0.45	4.27	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.72	4.00	0.22	0.22	5.18	0.35	4.15	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.94	4.00	0.15	0.15	5.13	0.24	4.02	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.16	4.00	0.08	0.08	5.09	0.12	3.88	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.39	4.00	0.00	0.00	5.07	0.00	3.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.61	4.00	-0.08	0.08	5.07	0.12	3.89	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.84	4.00	-0.15	0.15	5.09	0.24	4.02	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.06	4.00	-0.22	0.22	5.13	0.35	4.15	Vu < PhiVc/2	Not Reqd	0.00	0.00

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - Coyote Branch

Detailed Shear Information

Load Combination	Span Number	Distance (ft)	'd' (in)	Vu Actual	(k) Design	Mu (k-ft)	d*Vu/Mu	Phi*Vc (k)	Comment	Phi*Vs (k)	Spacing (in) Req'd	Spacing (in) Suggest
D Only	1	10.28	4.00	-0.29	0.29	5.18	0.45	4.28	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.51	4.00	-0.36	0.36	5.24	0.55	4.39	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.73	4.00	-0.42	0.42	5.32	0.64	4.49	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.95	4.00	-0.48	0.48	5.42	0.71	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.18	4.00	-0.53	0.53	5.52	0.77	4.64	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.40	4.00	-0.57	0.57	5.64	0.81	4.69	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.62	4.00	-0.61	0.61	5.77	0.85	4.73	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.85	4.00	-0.64	0.64	5.91	0.86	4.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.07	4.00	-0.65	0.65	6.05	0.86	4.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.29	4.00	-0.66	0.66	6.19	0.85	4.73	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.52	4.00	-0.65	0.65	6.34	0.82	4.69	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.74	4.00	-0.62	0.62	6.49	0.77	4.64	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.96	4.00	-0.59	0.59	6.63	0.71	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.19	4.00	-0.54	0.54	6.76	0.63	4.48	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.41	4.00	-0.47	0.47	6.88	0.54	4.38	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.64	4.00	-0.38	0.38	6.98	0.43	4.25	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.86	4.00	-0.27	0.27	7.07	0.31	4.10	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.08	4.00	-0.14	0.14	7.13	0.16	3.94	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.31	4.00	0.00	0.00	7.16	0.01	3.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.53	4.00	0.18	0.18	7.16	0.20	3.98	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.75	4.00	0.37	0.37	7.12	0.42	4.24	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	14.98	4.00	0.60	0.60	7.03	0.68	4.54	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	15.20	4.00	0.85	0.85	6.90	0.98	4.89	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	15.42	4.00	1.12	1.12	6.71	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	15.65	4.00	1.43	1.43	6.46	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	15.87	4.00	1.77	1.77	6.14	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	16.09	4.00	2.14	2.14	5.75	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	16.32	4.00	2.54	2.54	5.27	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	16.54	4.00	2.97	2.97	4.70	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	16.76	4.00	3.44	3.44	4.04	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	16.99	4.00	3.94	3.94	3.27	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	17.21	4.00	4.48	4.48	2.39	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	17.44	4.00	5.05	5.05	1.39	1.00	4.91	Vu > PhiVc	0.1431	0.00	2.00
D Only	1	17.66	4.00	5.66	5.66	0.26	1.00	4.91	Vu > PhiVc	0.7530	0.00	2.00
D Only	1	17.88	4.00	6.31	6.31	1.01	1.00	4.91	Vu > PhiVc	1.399	0.00	2.00
D Only	1	18.11	4.00	-2.67	2.67	1.39	1.00	4.91	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	18.33	4.00	-1.95	1.95	0.80	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	18.55	4.00	-1.20	1.20	0.36	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	18.78	4.00	-0.41	0.41	0.09	1.00	4.91	Vu < PhiVc/2	Not Reqd	0.00	0.00

3. ANCHOR DESIGN

Company:	Kimley-Horn and Associates, Inc	Page:	1
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Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	Coyote Branch	Date:	5/1/2020
Fastening point:			

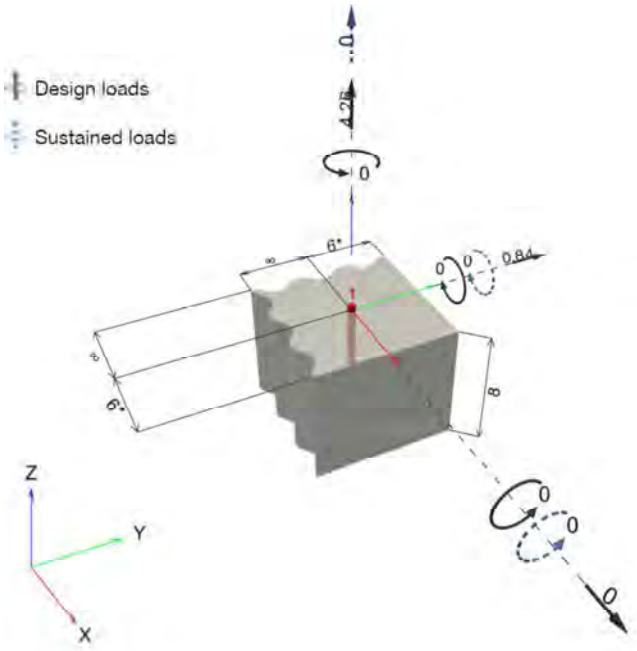
Specifier's comments:

1 Input data



Anchor type and diameter:	**HIT-HY 200 + Rebar A 615 Gr.40 #4**
Item number:	not available (element) / 2022793 HIT-HY 200-R (adhesive)
Effective embedment depth:	$h_{ef,opti}$ = 4.134 in. ($h_{ef,limit}$ = 6.750 in.)
Material:	ASTM A 615 GR.40
Evaluation Service Report:	ESR-3187
Issued I Valid:	4/1/2019 | 3/1/2020
Proof:	Design Method ACI 318-14 / Chem
Stand-off installation:	
Profile:	
Base material:	cracked concrete, 3000, f_c' = 3,000 psi; h = 8.000 in., Temp. short/long: 32/32 °F
Installation:	**hammer drilled hole, Installation condition: Dry**
Reinforcement:	tension: condition B, shear: condition B; no supplemental splitting reinforcement present edge reinforcement: none or < No. 4 bar

Geometry [in.] & Loading [kip, ft.kip]



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Design:	Coyote Branch	Date:	5/1/2020
Fastening point:			

1.1 Design results

Case	Description	Forces [kip] / Moments [ft.kip]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = 4.260; V_x = 0.000; V_y = 0.840; M_x = 0.00000; M_y = 0.00000; M_z = 0.00000; N_{sus} = 0.000; $M_{x,sus}$ = 0.00000; $M_{y,sus}$ = 0.00000;	no	99

2 Load case/Resulting anchor forces

Anchor reactions [kip]
Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	4.260	0.840	0.000	0.840

max. concrete compressive strain: - [‰]
max. concrete compressive stress: - [psi]
resulting tension force in (x/y)=(0.000/0.000): 0.000 [kip]
resulting compression force in (x/y)=(0.000/0.000): 0.000 [kip]

3 Tension load

	Load N_{ua} [kip]	Capacity ϕN_n [kip]	Utilization $\beta_N = N_{ua}/\phi N_n$	Status
Steel Strength*	4.260	7.800	55	OK
Bond Strength**	4.260	4.636	92	OK
Sustained Tension Load Bond Strength*	N/A	N/A	N/A	N/A
Concrete Breakout Failure**	4.260	4.874	88	OK

* highest loaded anchor **anchor group (anchors in tension)

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Design:	Coyote Branch	Date:	5/1/2020
Fastening point:			

3.1 Steel Strength

N_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi\ N_{sa} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,N}$ [in.^{2}]	f_{uta} [psi]
0.20	60,000

Calculations

N_{sa} [kip]
12.000

Results

N_{sa} [kip]	ϕ_{steel}	$\phi\ N_{sa}$ [kip]	N_{ua} [kip]
12.000	0.650	7.800	4.260

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	Coyote Branch	Date:	5/1/2020
Fastening point:			

3.2 Bond Strength

$N_a = \left(\frac{A_{Na}}{A_{Na0}}\right) \psi_{ed,Na} \psi_{cp,Na} N_{ba}$ — ACI 318-14 Eq. (17.4.5.1a)

$\phi N_a \geq N_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Na} see ACI 318-14, Section 17.4.5.1, Fig. R 17.4.5.1(b)

$A_{Na0} = (2 c_{Na})^2$ — ACI 318-14 Eq. (17.4.5.1c)

$c_{Na} = 10 d_a \sqrt{\frac{\tau_{uncr}}{1100}}$ — ACI 318-14 Eq. (17.4.5.1d)

$\psi_{ed,Na} = 0.7 + 0.3 \left(\frac{c_{a,min}}{c_{Na}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.5.4b)

$\psi_{cp,Na} = \text{MAX}\left(\frac{c_{a,min}}{c_{ac}}, \frac{c_{Na}}{c_{ac}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.5.5b)

$N_{ba} = \lambda_a \cdot \tau_{k,c} \cdot \pi \cdot d_a \cdot h_{ef}$ — ACI 318-14 Eq. (17.4.5.2)

Variables

$\tau_{k,c,uncr}$ [psi]	d_a [in.]	h_{ef} [in.]	$c_{a,min}$ [in.]	$\alpha_{overhead}$	$\tau_{k,c}$ [psi]
1,589	0.500	4.134	6.000	1.000	1,100

c_{ac} [in.]	λ_a
8.162	1.000

Calculations

c_{Na} [in.]	A_{Na} [in.^{2}]	A_{Na0} [in.^{2}]	$\psi_{ed,Na}$
5.983	143.17	143.17	1.000

$\psi_{cp,Na}$	N_{ba} [kip]
1.000	7.132

Results

N_a [kip]	ϕ_{bond}	ϕN_a [kip]	N_{ua} [kip]
7.132	0.650	4.636	4.260

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	Coyote Branch	Date:	5/1/2020
Fastening point:			

3.3 Concrete Breakout Failure

$N_{cb} = \left(\frac{A_{Nc}}{A_{Nc0}}\right) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b$ ACI 318-14 Eq. (17.4.2.1a)

$\phi N_{cb} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$A_{Nc0} = 9 h_{ef}^2$ ACI 318-14 Eq. (17.4.2.1c)

$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5h_{ef}}\right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.5b)

$\psi_{cp,N} = MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}}\right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.7b)

$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5}$ ACI 318-14 Eq. (17.4.2.2a)

Variables

h_{ef} [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$	c_{ac} [in.]	k_c	λ_a	f'_c [psi]
4.134	6.000	1.000	8.162	17	1.000	3,000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
148.64	153.36	0.991	1.000	7.809

Results

N_{cb} [kip]	$\phi_{concrete}$	ϕN_{cb} [kip]	N_{ua} [kip]
7.499	0.650	4.874	4.260

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	Coyote Branch	Date:	5/1/2020
Fastening point:			

4 Shear load

	Load V_{ua} [kip]	Capacity ϕV_n [kip]	Utilization $\beta_V = V_{ua}/\phi V_n$	Status
Steel Strength*	0.840	4.320	20	OK
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength (Bond Strength controls)**	0.840	9.984	9	OK
Concrete edge failure in direction y+**	0.840	2.989	29	OK

* highest loaded anchor **anchor group (relevant anchors)

4.1 Steel Strength

V_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi V_{steel} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,V}$ [in.^{2}]	f_{uta} [psi]
0.20	60,000

Calculations

V_{sa} [kip]
7.200

Results

V_{sa} [kip]	ϕ_{steel}	ϕV_{sa} [kip]	V_{ua} [kip]
7.200	0.600	4.320	0.840

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Fastening point:			

4.2 Pryout Strength (Bond Strength controls)

$V_{cp} = k_{cp}\left[\left(\frac{A_{Na}}{A_{Na0}}\right) \psi_{ed,Na} \psi_{cp,Na} N_{ba}\right]$ ACI 318-14 Eq. (17.5.3.1a)

$\phi V_{cp} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

A_{Na} see ACI 318-14, Section 17.4.5.1, Fig. R 17.4.5.1(b)

$A_{Na0} = (2 c_{Na})^2$ ACI 318-14 Eq. (17.4.5.1c)

$c_{Na} = 10 d_a \sqrt{\frac{\tau_{uncr}}{1100}}$ ACI 318-14 Eq. (17.4.5.1d)

$\psi_{ed,Na} = 0.7 + 0.3 \left(\frac{c_{a,min}}{c_{Na}}\right) \leq 1.0$ ACI 318-14 Eq. (17.4.5.4b)

$\psi_{cp,Na} = \text{MAX}\left(\frac{c_{a,min}}{c_{ac}}, \frac{c_{Na}}{c_{ac}}\right) \leq 1.0$ ACI 318-14 Eq. (17.4.5.5b)

$N_{ba} = \lambda_a \cdot \tau_{k,c} \cdot \pi \cdot d_a \cdot h_{ef}$ ACI 318-14 Eq. (17.4.5.2)

Variables

k_{cp}	$\alpha_{overhead}$	$\tau_{k,c,uncr}$ [psi]	d_a [in.]	h_{ef} [in.]	$c_{a,min}$ [in.]	$\tau_{k,c}$ [psi]
2	1.000	1,589	0.500	4.134	6.000	1,100

c_{ac} [in.]	λ_a
8.162	1.000

Calculations

c_{Na} [in.]	A_{Na} [in.^{2}]	A_{Na0} [in.^{2}]	$\psi_{ed,Na}$
5.983	143.17	143.17	1.000

$\psi_{cp,Na}$	N_{ba} [kip]
1.000	7.132

Results

V_{cp} [kip]	$\phi_{concrete}$	ϕV_{cp} [kip]	V_{ua} [kip]
14.264	0.700	9.984	0.840

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Design:	Coyote Branch	Date:	5/1/2020
Fastening point:			

4.3 Concrete edge failure in direction y+

$V_{cb} = \left(\frac{A_{Vc}}{A_{Vc0}}\right) \psi_{ed,V} \psi_{c,V} \psi_{h,V} \psi_{parallel,V} V_b$ — ACI 318-14 Eq. (17.5.2.1a)

$\phi V_{cb} \geq V_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Vc} see ACI 318-14, Section 17.5.2.1, Fig. R 17.5.2.1(b)

$A_{Vc0} = 4.5 c_{a1}^2$ — ACI 318-14 Eq. (17.5.2.1c)

$\psi_{ed,V} = 0.7 + 0.3\left(\frac{c_{a2}}{1.5c_{a1}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.5.2.6b)

$\psi_{h,V} = \sqrt{\frac{1.5c_{a1}}{h_a}} \geq 1.0$ — ACI 318-14 Eq. (17.5.2.8)

$V_b = \left(7\left(\frac{l_e}{d_a}\right)^{0.2}\sqrt{d_a}\right) \lambda_a \sqrt{f_c'} c_{a1}^{1.5}$ — ACI 318-14 Eq. (17.5.2.2a)

Variables

c_{a1} [in.]	c_{a2} [in.]	$\psi_{c,V}$	h_a [in.]	l_e [in.]
6.000	6.000	1.000	8.000	4.000

λ_a	d_a [in.]	f_c' [psi]	$\psi_{parallel,V}$
1.000	0.500	3,000	1.000

Calculations

A_{Vc} [in.^{2}]	A_{Vc0} [in.^{2}]	$\psi_{ed,V}$	$\psi_{h,V}$	V_b [kip]
120.00	162.00	0.900	1.061	6.039

Results

V_{cb} [kip]	$\phi_{concrete}$	ϕV_{cb} [kip]	V_{ua} [kip]
4.270	0.700	2.989	0.840

5 Combined tension and shear loads

β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status
0.919	0.281	5/3	99	OK

$\beta_{NV} = \beta_N^{\zeta} + \beta_V^{\zeta} <= 1$

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Design:	Coyote Branch	Date:	5/1/2020
Fastening point:			

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (AS 5216:2018, ETAG 001/Annex C, EOTA TR029 etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered - the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with CBFEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- Design Strengths of adhesive anchor systems are influenced by the cleaning method. Refer to the INSTRUCTIONS FOR USE given in the Evaluation Service Report for cleaning and installation instructions.
- For additional information about ACI 318 strength design provisions, please go to https://submittals.us.hilti.com/PROFISAnchorDesignGuide/
- Installation of Hilti adhesive anchor systems shall be performed by personnel trained to install Hilti adhesive anchors. Reference ACI 318-14, Section 17.8.1.

Fastening meets the design criteria!

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Design:	Coyote Branch	Date:	5/1/2020
Fastening point:			

7 Installation data

Profile: -

Hole diameter in the fixture: -

Plate thickness (input): -

Drilling method: Hammer drilled
Cleaning: Compressed air cleaning of the drilled hole according to instructions for use is required

#4 Rebar with Hilti HIT-HY 200 Safe Set System

Anchor type and diameter: HIT-HY 200 + Rebar A 615 Gr.40 #4
Item number: not available (element) / 2022793 HIT-HY 200-R (adhesive)

Installation torque: -

Hole diameter in the base material: 0.625 in.

Hole depth in the base material: 4.134 in.

Minimum thickness of the base material: 5.384 in.

7.1 Recommended accessories

Drilling	Cleaning	Setting
• Suitable Rotary Hammer • Properly sized drill bit	• Compressed air with required accessories to blow from the bottom of the hole • Proper diameter wire brush	• Dispenser including cassette and mixer • For deep installations, a piston plug is necessary • Torque wrench

Coordinates Anchor in.

Anchor	x	y	c_{-x}	c_{+x}	c_{-y}	c_{+y}
1	0.000	0.000	-	6.000	-	6.000

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	Coyote Branch	Date:	5/1/2020
Fastening point:			

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4. APPENDIX

4.1 WIND LOADS

Hazards by Location

Search Information

Address: 21699 W Yuma Rd, Buckeye, AZ 85326, USA

Coordinates: 33.4343439, -112.5171059

Elevation: 1035 ft

Timestamp: 2020-03-12T15:53:10.943Z

Hazard Type: Wind



ASCE 7-16

MRI 10-Year	71 mph
MRI 25-Year	77 mph
MRI 50-Year	82 mph
MRI 100-Year	87 mph
Risk Category I	95 mph
Risk Category II	101 mph
Risk Category III	108 mph
Risk Category IV	112 mph

ASCE 7-10

MRI 10-Year	76 mph
MRI 25-Year	84 mph
MRI 50-Year	90 mph
MRI 100-Year	96 mph
Risk Category I	105 mph
Risk Category II	115 mph
Risk Category III-IV	120 mph

ASCE 7-05

ASCE 7-05 Wind Speed	90 mph

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area – in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher. NOTE: For queries near wind-borne debris region boundaries, the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne debris region.

Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.

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this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the report.

4.2 SEISMIC LOADS

Hazards by Location

Search Information



Address: 21699 W Yuma Rd, Buckeye, AZ 85326, USA

Coordinates: 33.4343439, -112.5171059

Elevation: 1035 ft

Timestamp: 2020-03-12T15:54:19.917Z

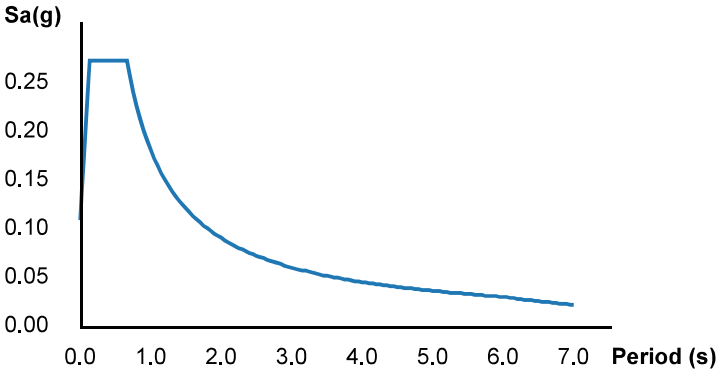
Hazard Type: Seismic

Reference Document: ASCE7-16

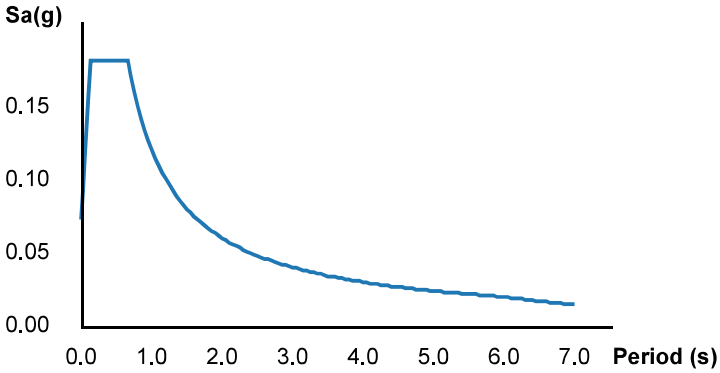
Risk Category: II

Site Class: D-default

MCER Horizontal Response Spectrum



Design Horizontal Response Spectrum



Basic Parameters

Name	Value	Description
S_S	0.171	MCE_R ground motion (period=0.2s)
S_1	0.075	MCE_R ground motion (period=1.0s)
S_{MS}	0.273	Site-modified spectral acceleration value
S_{M1}	0.181	Site-modified spectral acceleration value
S_{DS}	0.182	Numeric seismic design value at 0.2s SA
S_{D1}	0.121	Numeric seismic design value at 1.0s SA

Additional Information

Name	Value	Description
SDC	B	Seismic design category
F_a	1.6	Site amplification factor at 0.2s
F_v	2.4	Site amplification factor at 1.0s

CR_S	0.934	Coefficient of risk (0.2s)
CR_1	0.943	Coefficient of risk (1.0s)
PGA	0.075	MCE_G peak ground acceleration
F_{PGA}	1.6	Site amplification factor at PGA
PGA_M	0.12	Site modified peak ground acceleration
T_L	6	Long-period transition period (s)
SsRT	0.171	Probabilistic risk-targeted ground motion (0.2s)
SsUH	0.183	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.075	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.08	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGAd	0.5	Factored deterministic acceleration value (PGA)

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are provided by the U.S. Geological Survey Seismic Design Web Services.

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4.3 GENERATOR SPECIFICATIONS

SD300 | 10.3 | 300 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

Standby Power Rating
300 kW, 375 kVA, 60 Hz

Prime Power Rating*
270 kW, 338 kVA, 60 Hz

*Built in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the US or its Territories

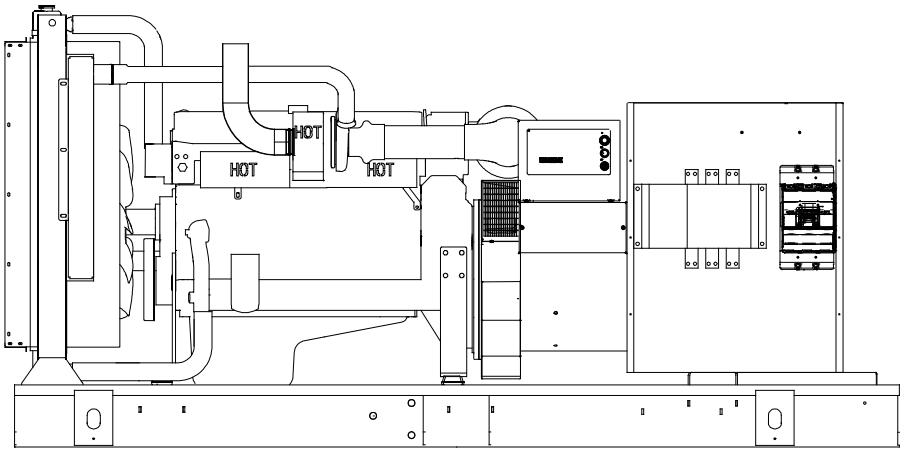


Image used for illustration purposes only

Codes and Standards

Generac products are designed to the following standards:

UL2200, UL508, UL142, UL489

NFPA 37, 70, 99, 110

NEC700, 701, 702, 708

ISO 3046, 7637, 8528, 9001

NEMA ICS10, MG1, 250, ICS6, AB1

ANSI C62.41

IBC 2009, CBC 2010, IBC 2012,
ASCE 7-05, ASCE 7-10,
ICC-ES AC-156 (2012)

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SD300 | 10.3L | 300 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Heavy Duty Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil & Coolant
- Radiator Duct Adapter (Open Set Only)

Fuel System

- Fuel Lockoff Solenoid
- Primary Fuel Filter

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze
- 120 VAC Coolant Heater

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- GENprotect™
- 12 Leads (3-Phase, Non 600V)
- Class H Insulation Material
- Vented Rotor
- 2/3 Pitch
- Skewed Stator
- Auxiliary Voltage Regulator Power Winding
- Permanent Magnet Excitation
- Sealed Bearing
- Automated Manufacturing (Winding, Insertion, Lacing, Varnishing)
- Rotor Dynamically Spin Balanced
- Amortisseur Winding
- Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Only)

ENCLOSURE (if selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- Rhino Coat™ - Textured Polyester Powder Coat Paint

TANKS (if selected)

- UL 142
- Double Wall
- Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested (2 psi)
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- Rhino Coat™ - Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

CONTROL SYSTEM



Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- 3 Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total & Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms & Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms & Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

SD300 | 10.3 | 300 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- Oil Make-Up System
- Oil Heater
- Critical Exhaust Silencer

FUEL SYSTEM

- Flexible Fuel Lines
- Primary Fuel Filter

ELECTRICAL SYSTEM

- 10A UL Battery Charger
- Battery Warmer

ALTERNATOR SYSTEM

- Alternator Upsizing
- Anti-Condensation Heater
- Tropical Coating

CIRCUIT BREAKER OPTIONS

- Main Line Circuit Breaker
- 2nd Main Line Circuit Breaker
- Shunt Trip and Auxiliary Contact
- Electronic Trip Breakers

GENERATOR SET

- GenLink® Communications Software (English Only)
- Extended Factory Testing
- IBC Seismic Certification
- 8 Position Load Center
- 2 Year Extended Warranty
- 5 Year Warranty
- 5 Year Extended Warranty
- 7 Year Extended Warranty
- 10 Year Extended Warranty

ENCLOSURE

- Standard Enclosure
- Level 1 Sound Attenuation
- Level 2 Sound Attenuation
- Steel Enclosure
- Aluminum Enclosure
- Up to 200 MPH Wind Load Rating*
- AC/DC Enclosure Lighting Kit
- 12 VDC Enclosure Light Kit
- 120 VAC Enclosure Light Kit

CONTROL SYSTEM

- NFPA 110 Compliant 21-Light Remote Annunciator
- Remote Relay Assembly (8 or 16)
- Oil Temperature Sender with Indication Alarm
- Remote E-Stop (Break Glass-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Surface Mount)
- Remote E-Stop (Red Mushroom-Type, Flush Mount)
- Remote Communication - Modem
- Remote Communication - Ethernet
- 10A Run Relay
- Ground Fault Indication and Protection Functions

TANKS (SIZE ON LAST PAGE)

- Electric Fuel Level
- Mechanical Fuel Level
- 8” Fill Extension
- 13” Fill Extension
- 19” Fill Extension

ENGINEERED OPTIONS

ENGINE SYSTEM

- Coolant Heater Ball Valves
- Fluid Containment Pan

CONTROL SYSTEM

- Spare Inputs (x4) / Outputs (x4)
- Battery Disconnect Switch

ALTERNATOR SYSTEM

- 3rd Breaker System

GENERATOR SET

- Special Testing

ENCLOSURE

- Motorized Dampers

TANKS

- Overfill Protection Valve
- UL2085 Tank
- ULC S-601 Tank
- Special Fuel Tanks
- Vent Extensions

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition.

*Consult factory for availability

SD300 | 10.3L | 300 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Iveco/FPT
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	6
Type	In-Line
Displacement - L (cu. in)	10.3 (628.54)
Bore - mm (in)	125 (4.92)
Stroke - mm (in)	140 (5.51)
Compression Ratio	16.5:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head	4-Valve
Piston Type	Aluminum
Crankshaft Type	Dropped Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow
Crankcase Capacity - L (qts)	30 (31.68)

Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed (rpm)	2250
Fan Diameter - mm (in)	762 (30.0)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Inject Pump Make	Electronic
Fuel Pump Type	Engine Driven Gear
Injector Type	Common Rail
Engine Type	Direct Injection
Fuel Supply Line - mm (in.)	12.7 (0.5) NPT
Fuel Return Line - mm (in.)	12.7 (0.5) NPT

Engine Electrical System

System Voltage	24 VDC
Battery Charger Alternator	Std
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	520 mm Generac
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Permanent Magnet Excitation
Bearings	Single Sealed Cartridge
Coupling	Direct, Flexible Disc
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SPEC SHEET

4 of 6

SD300 | 10.3 | 300 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

OPERATING DATA

POWER RATINGS

		Standby		Prime
Three-Phase 120/208 VAC @0.8pf	300 kW	Amps: 1041	270 kW	Amps: 937
Three-Phase 120/240 VAC @0.8pf	300 kW	Amps: 902	270 kW	Amps: 812
Three-Phase 277/480 VAC @0.8pf	300 kW	Amps: 451	270 kW	Amps: 406
Three-Phase 346/600 VAC @0.8pf	300 kW	Amps: 361	270 kW	Amps: 325

STARTING CAPABILITIES (sKVA)

sKVA vs. Voltage Dip

480 VAC							
Alternator	kW	10%	15%	20%	25%	30%	35%
Standard	350	383	575	767	958	1150	1342
Upsize 1	400	387	581	775	968	1162	1356
Upsize 2	500	457	686	914	1143	1371	1600

208/240 VAC							
Alternator	kW	10%	15%	20%	25%	30%	35%
Standard	350	280	410	535	640	770	900
Upsize 1	400	210	350	500	680	875	1100
Upsize 2	450	345	570	835	1100	1460	1710

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m)
3 (1)

Total Fuel Pump Flow (Combustion + Return) - gal/hr (l/hr)
31 (117)

Diesel - gal/hr (l/hr)

Percent Load	Standby	Prime
25%	7.6 (28.7)	6.9 (26.1)
50%	12.6 (47.7)	11.6 (43.9)
75%	17.4 (65.9)	15.8 (59.8)
100%	22.1 (83.7)	19.9 (75.3)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby	Prime
Coolant Flow per Minute	gal/min (l/min)	95 (360)	95 (360)
Coolant System Capacity	gal (l)	16.6 (63)	16.6 (63)
Heat Rejection to Coolant	BTU/hr	814,783	733,673
Inlet Air	cfm (m^3/hr)	14,505 (411)	14,505 (411)
Maximum Radiator Backpressure	in H_2O	0.5	0.5

COMBUSTION AIR REQUIREMENTS

	Standby	Prime
Flow at Rated Power cfm (m^3/min)	850 (24.07)	765 (21.67)

ENGINE

		Standby	Prime
Rated Engine Speed	rpm	1800	1800
Horsepower at Rated kW**	hp	480	432
Piston Speed	ft/min	1654	1654
BMEP	psi	336	302

EXHAUST

		Standby	Prime
Exhaust Flow (Rated Output)	cfm (m^3/min)	2240 (63.4)	2016 (57.1)
Max. Backpressure (Post Silencer)	in Hg (Kpa)	1.5 (5.1)	1.5 (5.1)
Exhaust Temp (Rated Output - Post Silencer)	°F (°C)	1020 (549)	918 (492)
Exhaust Outlet Size (Open Set)	mm (in)	101.6 (4)	101.6 (4)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

SPEC SHEET

5 of 6

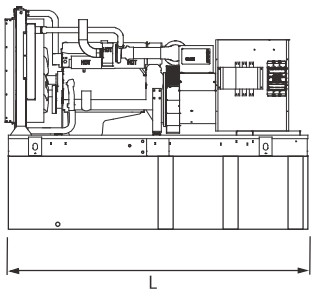
SD300 | 10.3L | 300 kW

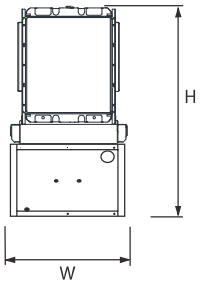
INDUSTRIAL DIESEL GENERATOR SET

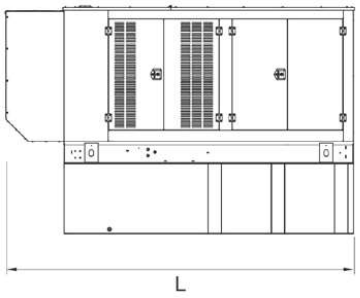
EPA Certified Stationary Emergency

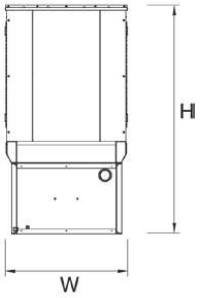
GENERAC | INDUSTRIAL POWER

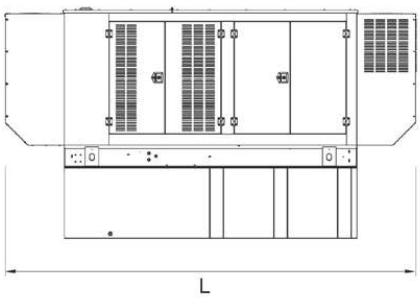
DIMENSIONS AND WEIGHTS*

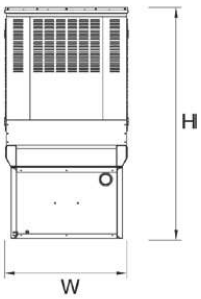


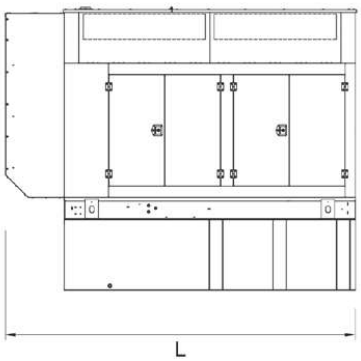


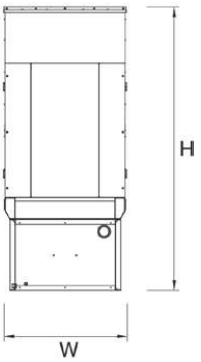












OPEN SET (Includes Exhaust Flex)

Run Time Hours	Usable Capacity Gal (L)	L x W x H in (mm)	Weight lbs (kg)
No Tank	-	136 (3454) x 58 (1473) x 68 (1727)	5816 (2638)
8	183 (693)	136 (3454) x 58 (1473) x 81 (2057)	6764 (3068)
20	438 (1659)	136 (3454) x 58 (1473) x 93 (2362)	7076 (3210)
31	693 (2624)	136 (3454) x 58 (1473) x 105 (2667)	7379 (3347)
43	946 (3518)	208 (5283) x 58 (1473) x 108 (2743)	8841 (4010)
60	1325 (5015)	278 (7061) x 58 (1473) x 108 (2743)	9856 (4471)

STANDARD ENCLOSURE

Run Time Hours	Usable Capacity Gal (L)	L x W x H in (mm)	Weight lbs (kg)	
			Steel	Aluminum
No Tank	-	175 (4445) x 58 (1473) x 78 (1981)		
8	183 (693)	175 (4445) x 58 (1473) x 91 (2311)		
20	438 (1659)	175 (4445) x 58 (1473) x 103 (2616)	1295 (588)	501 (227)
31	693 (2624)	175 (4445) x 58 (1473) x 115 (2921)		
43	946 (3518)	208 (5283) x 58 (1473) x 118 (2997)		
60	1325 (5015)	278 (7061) x 58 (1473) x 118 (2997)		

LEVEL 1 ACOUSTIC ENCLOSURE

Run Time Hours	Usable Capacity Gal (L)	L x W x H in (mm)	Weight lbs (kg)	
			Steel	Aluminum
No Tank	-	200 (5080) x 58 (1473) x 78 (1981)		
8	183 (693)	200 (5080) x 58 (1473) x 91 (2311)		
20	438 (1659)	200 (5080) x 58 (1473) x 103 (2616)	1470 (667)	935 (425)
31	693 (2624)	200 (5080) x 58 (1473) x 115 (2921)		
43	946 (3518)	234 (5944) x 58 (1473) x 118 (2997)		
60	1325 (5015)	304 (7722) x 58 (1473) x 118 (2997)		

LEVEL 2 ACOUSTIC ENCLOSURE

Run Time Hours	Usable Capacity Gal (L)	L x W x H in (mm)	Weight lbs (kg)	
			Steel	Aluminum
No Tank	-	180.6 (4588) x 57.6 (1463) x 107.2 (2724)		
8	183 (693)	180.6 (4588) x 57.6 (1463) x 120 (3048)		
20	438 (1659)	180.6 (4588) x 57.6 (1463) x 132 (3353)	2515 (1141)	1131 (514)
31	693 (2624)	180.6 (4588) x 57.6 (1463) x 144 (3658)		
43	946 (3518)	208 (5283) x 57.6 (1463) x 148(3759)		
60	1325 (5015)	278 (7061) x 57.6 (1463) x 146 (3708)		

(8841 lb set and tank) + (Diesel weight 7 lbs/gallon x 946 gallons) + (2515 lbs enclosure weight) = **17979 LBs total**

* All measurements are approximate and for estimation purposes only.

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

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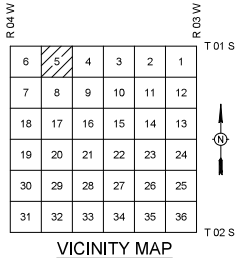
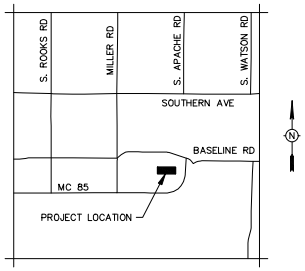
SAIDE REC CENTER
STANDBY GENERATOR
1003 E EASON AVE
BUCKEYE, ARIZONA 85326

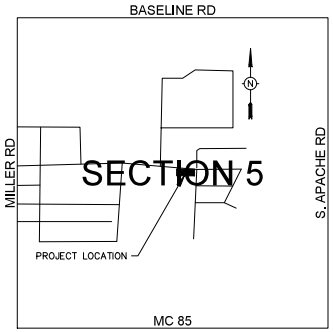
A PORTION OF THE NWSE OF SECTION 5, TOWNSHIP T01S, RANGE R03W OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



OVERALL DEVELOPMENT
NOT TO SCALE

FEMA FLOOD ZONE INFORMATION

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEV. (IN AO ZONE, USE DEPTH)
ALL FLOOD ZONES ARE SHOWN IN THIS PLAN SET.					

GENERAL PERMITTING NOTES

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF BUCKEYE DESIGN STANDARDS. IF THERE IS A CONFLICT, THE CITY OF BUCKEYE STANDARDS WILL GOVERN.
2. THE APPROVAL OF THE PLANS IS VALID FOR ONE (1) YEAR FROM THE DATE OF THE CITY ENGINEER'S SIGNATURE. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN ONE (1) YEAR, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
3. A CITY OF BUCKEYE INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF BUCKEYE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY THE CITY 24 HOURS PRIOR TO THE INSPECTION BY CALLING (623) 349-6248.
4. CITY PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. A CITY PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER ALL FEES HAVE BEEN PAID AND THE PERMIT HAS AN APPROVED MARICOPA COUNTY ENVIRONMENTAL SERVICES DUST PERMIT AND AN APPROVED STORM WATER POLLUTION PREVENTION PLAN ATTACHED. THE SWPPP SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. COPIES OF ALL PERMITS AND MOST RECENT APPROVED PLANS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS AND PLANS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL PROPER PERMIT DOCUMENTATION AND/OR PLANS ARE OBTAINED. ALL OF THESE REQUIREMENTS APPLY TO ONSITE GRADING AND IMPROVEMENT PLANS.

SUMMARY OF BUILDING CODES

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL RESIDENTIAL CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE

ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
MICHAEL COLOMBO
7740 N. 16TH STREET
SUITE 300 PHOENIX, AZ 85020
602-944-5500
MICHAEL.COLOMBO@KIMLEY-HORN.COM

SHEET INDEX

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	ELECTRICAL GENERAL NOTES
3	ELECTRICAL SITE PLAN
4	ELECTRICAL ONE LINE DIAGRAM
5	ELECTRICAL DETAILS
6	STRUCTURAL NOTES AND PLAN
7	STRUCTURAL DETAILS

APPROVAL

DISCLAIMER:

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS AND OMISSIONS.

BY: _____
CITY OF BUCKEYE ENGINEER DATE

BY: _____
FLOOD CONTROL DISTRICT MARICOPA COUNTY DATE

BY: _____
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION DATE

BY: _____
MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT DATE

BY: _____
PRIVATE WATER DATE

BY: _____
PRIVATE SEWER DATE

BY: _____
ROOSEVELT IRRIGATION DISTRICT (RID) DATE

BY: _____
BUCKEYE WATER CONSERVATION & DRAINAGE DISTRICT DATE

(OTHER SIGNATURE LINES AS REQUIRED)

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

MANAGING ENGINEERING / SURVEYOR
PROJECT COORDINATOR
DESIGN LAYOUT: EG
DRAFTED: JN
CHECKED: MAC
FIELD SURVEY
DRAWING SCALES

PLAN TYPE: ELECTRICAL PLANS

ENGINEER INFORMATION: Kimley»Horn

PROJECT: SAIDE REC CENTER
STANDBY GENERATOR

COB PROJECT PLAN STICKER

REVISIONS:
1
2
3

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

SUBMITTAL: FINAL

AS-BUILT SEAL

DESIGN SEAL

Registered Professional Engineer
CERTIFICATE NO. 30360
Michael K. Colombo
Date Signed 07/07/20
ARIZONA, USA

Expires 12/31/21

ORIGINAL PLAN DATE: 07/07/2020
LATEST REVISION DATE: 07/07/2020
PROJECT NUMBER: 191342012
SHEET NUMBER: 1 of 7

COB PLAN TRACKING #
COB PERMIT #

CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES

1. CITY OF BUCKEYE BUILDING DEPARTMENT SHALL; HE NOTIFIED 24 HOURS IN ADVANCE OF ANY ON-SITE OR OFF SITE CONSTRUCTION. PHONE 623-349-6248 FOR THE HOTLINE. ALL OTHERS FAX THE INSPECTION REQUEST FORM TO 623-349-6221, OR USE THE WEB BASED PERMIT PORTHOLE ACCESS TO SCHEDULE AN INSPECTION (WWW_BUCKEYEAZ.GOV).
2. ALL WORK AND MATERIALS MUST CONFORM WITH THESE SPECIFICATIONS, THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) AND AS AMENDED BY THE CITY OF BUCKEYE (COB).
3. A PERMIT IS REQUIRED FROM THE COB FOR ALL CONSTRUCTION WITHIN THE RIGHTS-OF-WAY (ROW).
4. THE CONTRACTOR WILL EXPOSE ALL EXISTING UTILITY LINES BEING TIED IN TO VERIFY THEIR LOCATION.
5. THE CONTRACTOR WILL LOCATE, OR HAVE LOCATED, ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINE, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO CALL BLUE STAKE PRIOR TO STARTING ANY CONSTRUCTION. NO WORK SHALL BEGIN UNTIL BLUE STAKE IS COMPLETED. BLUE STAKE TELEPHONE NUMBER 602-263-1 100 OR 1-800-STAKE-IT.
7. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO STARTING ANY WORK OR NEW PHASE OF WORK. THE CONTRACTOR, KEY SUB-CONTRACTORS, COB INSPECTOR AND REPRESENTATIVE OF THE CITY ENGINEER SHALL ATTEND THIS MEETING.
8. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COB AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. DISPOSAL OF EXCESS MATERIAL WITHOUT A PERMIT WITHIN THE COB LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL OR STOCKPILING OF MATERIALS WITHIN A RESIDENTIAL AREA. STOCKPILING OF EXCAVATED MATERIAL SHALL NOT EXCEED A HEIGHT OF 6 FEET ABOVE THE NATURAL GROUND ELEVATION. THE SLOPES ON ALL SIDES OF THE STOCKPILED EXCAVATED MATERIAL SHALL NOT EXCEED A 4: 1 RATIO OF LENGTH TO HEIGHT.
10. EXCAVATION CONTRACTORS MUST IDENTIFY LOCATION FOR DISPOSING OF EXCESS EXCAVATION MATERIAL ALONG WITH A LETTER FROM THE LAND OWNER, GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ANY CONSTRUCTION.
11. TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF PHOENIX BARRICADING MANUAL, MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION, M.A.G. UNIFORM STANDARD DETAIL 401, AND COB REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND BARRICADE PLAN TO THE COB FOR APPROVAL WHERE THE CONSTRUCTION OF THE NEW IMPROVEMENTS ARE ADJACENT TO OR CONNECTING TO ANY EXISTING ROADWAY OR PEDESTRIAN FACILITIES. THE TRAFFIC CONTROL PLAN AND BARRICADE PLAN SHALL BE APPROVED BEFORE A PERMIT FOR THE WORK WILL BC ISSUED. THE CONTRACTOR SHALL INSTALL APPROVED BARRICADING AND TRAFFIC CONTROL, AS APPROVED BY THE COB, BEFORE WORK CAN TAKE PLACE. ALL OVERNIGHT BARRICADES SHALL BE LIT AND FUNCTIONING.
12. A HAUL PLAN FOR MATERIAL IMPORT OR EXPORT SHALL BE REQUIRED FOR COB REVIEW AND APPROVAL PRIOR TO THE START OF HAULING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC. THIS WORK INCLUDES STREET SWEEPING, POWER BROOM AND WATER AS NEEDED OR DIRECTED BY THE COB.
13. ENVIRONMENTAL REQUIREMENTS
    A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL RELATED TO THE PROJECT CONSTRUCTION AND SHALL TAKE WHATEVER MEANS NECESSARY TO CONTROL ANY ABNORMAL CONDITIONS.
    B. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
    C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC.
    D. TEMPORARY DRAINAGE CONTROL MEASURES MAY BE REQUIRED DURING AND AFTER CONSTRUCTION UNTIL FINAL PROJECT BUILD-OUT IN ACCORDANCE WITH THE APPROVED PLANS AND IN ACCORDANCE WITH ANY ESTABLISHED OR REQUIRED BEST MANAGEMENT PRACTICES (BMP) AS PART OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS.
    E. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL AIR QUALITY PERMITS.
    F. THE CONTRACTOR SHALL SUBMIT TO THE COB A COPY OF THEIR APPROVED COUNTY (AIR QUALITY) DUST CONTROL PLAN, EROSION CONTROL PLAN (SWPPP), AND PERMIT PRIOR TO THE START OF WORK.
14. STREET CUTS: APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. THE PAVEMENT REPLACEMENT SECTION FOR ALL LONGITUDINAL AND TRANSVERSE TRENCHES LOCATED IN AN EXISTING PAVED STREET SHALL BE CONSTRUCTED IN ACCORDANCE M.A.G. UNIFORM STANDARD DETAIL NO. 200 "T"-TOP, BACKFILL, PAVEMENT SURFACE REPLACEMENT, MODIFIED AS FOLLOWS: THE WIDTH OF THE REPLACED PAVEMENT SECTION EXTEND 1 FOOT BEYOND THE TRENCH SIDE EDGE LINE, ON EITHER SIDE OF THE TRENCH. THE DEPTH OF THE PERMANENT SURFACE REPLACEMENT SHALL BE A MINIMUM OF 3 INCHES OR MATCH THE EXISTING THICKNESS OF THE PAVEMENT, WHICHEVER IS GREATER. SAWCUT OR CONSTRUCTION JOINTS SHALL BE ADEQUATELY TACK OILED WITH A MINIMUM OF 95% COVERAGE. ASPHALT MATERIAL SHALL BE A COB APPROVED MIX DESIGN WITH COMPACTED LIFTS NO GREATER THAN 3 INCHES. SLURRY BACKFILLED OR OPEN TRENCHES IN EXISTING ROADWAYS MUST BE PROPERLY STEEL PLATED AND BARRICADED OVER NIGHT. STEEL PLATES TO BE MILLED FLUSH WITH ROADWAY SURFACE PER NOTE 24. "COLD MIX" TEMPORARY ASPHALT PATCHES MUST BE REPLACED AS SOON AS POSSIBLE AND CANNOT REMAIN FOR MORE THAN 5 DAYS TIME OR AS REQUIRED BY THE COB. DURING THE 5 DAY PERIOD THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PATCH TO WITHIN MAG STD SPEC 321.5.3. ASPHALT IN PLACE FOR LESS THAN 5 YEARS SHALL BE MILLED AND OVERLAYED A MINIMUM OF 20 FEET PAST TRENCH WALLS, AND IN THE CASE OF MULTIPLE STREET CUTS, THE CONTINUOUS MILL AND OVERLAY SHALL EXTEND A MINIMUM OF 20-FEET PAST END OF THE FURTHEST TRENCH WALLS.
15. POTHOLING: NO POTHOLING SHALL BE DONE ON ANY STREET NEWER THAN 2 YEARS OLD. ALL POTHOLING IN EXISTING STREETS SHALL BE DONE USING WATER/AIR/VACUUM TYPE METHOD. POTHOLE SIZE SHALL BE LIMITED TO A 12 INCH BY 12 INCH SQUARE HOLE. REMOVAL MATERIAL CANNOT BE USED FOR BACK FILL. THE CONTRACTOR SHALL USE SLURRY PER MAG SEC. 728. PAVEMENT REPLACEMENT SHALL BE BY APPROVED HOT MIX ASPHALT ONLY. A 3 FOOT BY 3 FOOT PAVEMENT SLURRY SEAL SHALL BE APPLIED AFTER THE ASPHALT IS PLACED.
16. AN APPROVED, UP-TO-DATE SET OF PLANS AND A RIGHT-OF-WAY PERMIT SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WHILE WORK IS IN PROGRESS. IF THE PLANS AND PERMITS ARE NOT ON SITE, THE WORK SHALL BE STOPPED UNTIL THE APPROVED PLANS ARE PROVIDED. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT THE COB'S APPROVAL.
17. DAMAGE TO ANY AND ALL ITEMS CAUSED BY CONSTRUCTION OR CONSTRUCTION RELATED WORK SHALL BE REPLACED OR REPAIRED TO THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
18. ALL PARCEL CONSTRUCTION ACCESS LOCATIONS ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE ACCESS ROADS INSIDE AND THROUGHOUT THE PARCEL ALLOWING FOR INSPECTION ACCESSIBILITY. THIS INCLUDES GRADING, GRAVEL FILL AND/OR TRENCH PLATES AS REQUIRED.
19. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COB AND THE COB CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE COB.
20. THE COB SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONNECTION WITH THE WORK. THE COB WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS COMPLYING WITH MAG OR COB REQUIREMENTS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CERTIFIED AS-BUILT RECORD DOCUMENTS TO THE COB FOR REVIEW AND APPROVAL. NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL "AS-BUILT" PLANS CERTIFIED BY THE PROJECT ENGINEER/LAND SURVEYOR HAVE BEEN SUBMITTED AND ACCEPTED BY THE COB. FINAL CONSTRUCTION ACCEPTANCE OR THE RELEASE OF CERTIFICATE OF OCCUPANCIES SHALL NOT BE ISSUED UNTIL ALL AS-BUILT DRAWINGS AND OTHER REQUIRED DOCUMENTS PER THE COB'S FINAL PROJECT SUBMITTAL CHECKLIST, HAVE BEEN REVIEWED AND APPROVED BY THE CITY ENGINEER.
22. ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING THE WATER RESOURCE DEPARTMENT AT (623) 349-6800.
23. THE COB IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR RELOCATION OF UTILITIES.
24. ALL CONTRACTORS SHALL CONTRACT FOR TRASH PICKUP THROUGH A LICENSED CITY OF BUCKEYE SOLID WASTE HAULER (602-237-2078) AND DISPOSED OF AT THE SOUTHWEST REGIONAL LANDFILL IN BUCKEYE.
25. OPEN TRENCHES ACROSS DRIVEWAYS, STREETS AND CROSS-STREETS SHALL BE PLATED FOR OVERNIGHT, WEEKEND OR EXTENDED PERIODS, PER M.A.G. UNIFORM STANDARD DETAIL 211.
26. ALL ABC SHALL BE FROM AN ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) APPROVED SOURCE LIST.
27. LONGITUDINAL TRENCH BACKFILL IN EXISTING ARTERIAL, COLLECTOR, OR LOCAL ROADWAYS OR ADJACENT TO EXISTING ROADWAY (WHEN THE TRENCH EXCAVATION FALLS WITHIN 2 FEET OF EDGE OF PAVEMENT) SHALL REQUIRE 1/2 SACK CLSM PER MAG SPEC 728 FULL DEPTH OR ABC FULL DEPTH AS DIRECTED BY THE COB. ABC BACKFILL COMPACTION SHALL BE BY AN APPROVED MECHANICAL METHOD (NO WATER SETTLING) WITH BACKFILL MATERIAL LIFTS AS FOLLOWS:
    - 12 INCH LIFTS (LOOSE) TO BE USED IN THE TOP 4 FEET OF THE TRENCH
    - 24 INCH LIFTS (LOOSE) TO BE USED FROM 1 FOOT OVER THE PIPE TO 4 FEET FROM THE TOP OF THE TRENCH PER MAG SEC. 601.4.
28. ALL BACKFILL WITHIN OR ADJACENT TO EXISTING ROADWAYS SHALL BE MECHANICALLY COMPACTED.
29. TRANSVERSE TRENCH BACKFILL IN ALL EXISTING ROADWAYS SHALL REQUIRE 100% FULL DEPTH HALF SACK CLSM PER MAG SPEC 728.
30. ALL MATERIAL SUBMITTALS INCORPORATED IN THE PROJECT SHALL BE SUBMITTED AT OR BEFORE THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

ELECTRICAL GENERAL CONSTRUCTION NOTES

1. ALL EQUIPMENT, MATERIALS AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING OR NOTED OTHERWISE ON OTHER SHEETS.
2. PROVIDE ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE WORKING ELECTRICAL SYSTEM.
3. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY AND LOCAL CODES AND ORDINANCES, AS WELL AS ALL CURRENT STANDARDS, CODES AND PRACTICES AS REQUIRED BY NEC, NEMA, ANSI, NFPA, UBC, UL, IEEE, AND UTILITY COMPANY STANDARDS.
4. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER OF ALL SHOP DRAWINGS AND MANUFACTURERS DATA FOR PANEL BOARDS, TRANSFORMERS, WIRING DEVICES, ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL INDICATE THAT THE CONTRACTOR HAS REVIEWED THE INFORMATION THEREIN AND THAT THE PROPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOB SITE. ANY SUBSTITUTIONS SHALL BE OF THE EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
5. ALL WIRE SHALL BE STRANDED COPPER WITH XHHW-2 INSULATION OR APPROVED EQUAL.
6. ALL CONDUIT SHALL BE ROUTED UNDER FOOTINGS WHERE APPLICABLE. REFER TO STRUCTURAL DETAILS FOR MORE INFORMATION.
7. THE USE OF SERIES RATING OF UPSTREAM OR DOWNSTREAM CIRCUIT BREAKERS OR FUSES IS PROHIBITED. ONLY FULLY RATED SYSTEM COMPONENTS WILL BE ACCEPTED.
8. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40. ALL ELBOWS AND EXPOSED RISERS SHALL BE WRAPPED RIGID STEEL CONDUIT.
9. TYPE MC OR TYPE AC CABLE SHALL ONLY BE USED WITH THE SPECIFIC WRITTEN PERMISSION OF THE PROGRAM/PROJECT MANAGER. EMT TYPE CONDUIT WILL NOT BE ALLOWED.
10. ORDER AND/OR RELEASE ORDERED MATERIALS PROMPTLY AFTER SUBMITTAL APPROVAL. NO SUBSTITUTIONS OR ALTERNATE METHODS OF INSTALLATION WILL BE ACCEPTED FOR FAILURE TO ORDER MATERIALS IN A TIMELY FASHION.
11. PULL ROPES: PROVIDE 300 POUND PULL WIRE OR NYLON EQUIVALENT IN ALL INTERIOR EMPTY CONDUIT RUNS. PROVIDE 1/4" DIA NYLON PULL ROPE IN EACH EMPTY EXTERIOR CONDUIT OR DUCT.
12. ALL MULTIPLE POLE CIRCUITS SHALL BE PROVIDED WITH HANDLE TIES AS REQUIRED BY NEC.
13. CONDUIT/ CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT THE TIME OF CONSTRUCTION.
14. PRIOR TO PURCHASE OF ANY PANEL, PROTECTIVE DEVICES, SWITCH, STARTER, CONDUIT, WIRE, ETC., TO FEED ANY PIECE OF EQUIPMENT VERIFY THE VOLTAGE, PHASE, AND LOAD OF THAT ITEM IN THE FIELD AND/OR WITH THE PARTICULAR ENTITY INVOLVED IN THE FURNISHING THE ITEM SUCH THAT THE PROPER SIZE & RATING OF THE MATERIALS ARE PURCHASED. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY. THIS APPLIES TO ALL EQUIPMENT UNDER OTHER SECTIONS & BY THE OWNER.
15. DUE TO THE REQUIREMENTS TO INTERFACE WITH EXISTING FACILITIES AND UTILITIES. IT IS RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING A JOC PROPOSAL.
16. PROVIDE ALL TRENCHING, EXCAVATION, BACK FILLING, SHORING. PUMPING, COMPACTION TEST ETC. THAT ARE REQUIRED FOR THE SCOPE OF ELECTRICAL WORK.
17. VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
18. ALL PANEL BOARDS, SWITCHES, MOTOR STARTERS AND SWITCHBOARD CIRCUIT BREAKERS SHALL HAVE ENGRAVED MICARTA NAMEPLATES.
19. ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ELECTRICAL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
20. PROVIDE ALL PANEL BOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE OWNER FOR APPROVAL PRIOR TO FINALIZATION.

LEGEND

—X—X—	EXISTING FENCE
——OH——	EXISTING OVERHEAD POWER LINE
———	EXISTING CONDUIT, ABOVE GRADE
- - - - -	EXISTING CONDUIT, BELOW GRADE
———	PROPOSED RGS CONDUIT, ABOVE GRADE
— — — — —	PROPOSED PVC SCH 40 CONDUIT, BELOW GRADE
E	PROPOSED ELECTRICAL PULL BOX
C	PROPOSED COMMUNICATIONS PULL BOX
J	PROPOSED JUNCTION BOX
	EXISTING LIGHT POLE
	EXISTING TREE
	BRANCH PANELBOARD/SWITCHBOARD
	DISTRIBUTION PANELBOARD/SWITCHBOARD
	AUTOMATIC TRANSFER SWITCH
GEN	PROPOSED GENERATOR SET ON NEW STRUCTURAL PAD. SEE STRUCTURAL DRAWINGS FOR PAD DETAILS.

ABBREVIATIONS

AFG	ABOVE FINISH GRADE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
EX.	EXISTING
GEC	GROUNDING ELECTRODE CONDUCTOR
GND	GROUND
IBC	INTERNATIONAL BUILDING CODE
IFC	INTERNATIONAL FIRE CODE
IMC	INTERMEDIATE METAL CONDUIT
IPC	INTERNATIONAL PLUMBING CODE
KCMIL	THOUSAND CIRCULAR MIL
MLO	MAIN LUG ONLY
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
PCP	PUMP CONTROL PANEL
RMC	RIGID METAL CONDUIT
RTU	REMOTE TERMINAL UNIT
SCCR	SHORT CIRCUIT CURRENT RATING
TYP.	TYPICAL
MH	MOUNT HEIGHT

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL GENERAL NOTES

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL

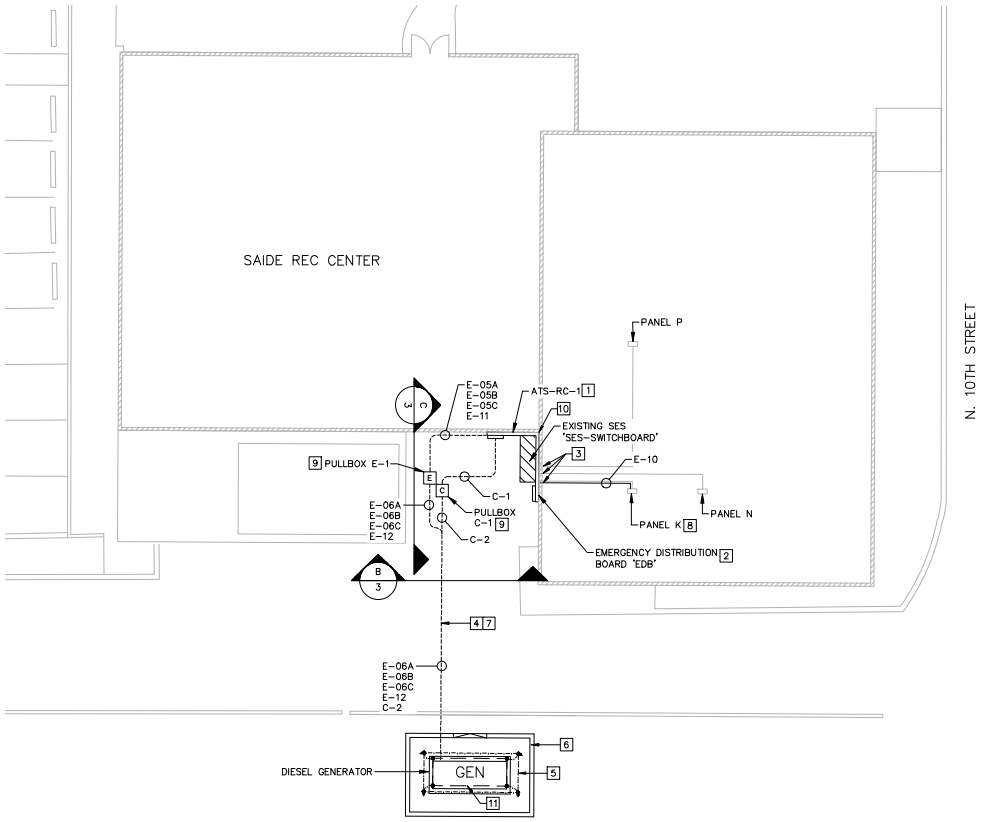
DESIGN SEAL
Registered Professional Engineer
CERTIFICATE NO.
Nathan A. Colonna
Date Signed 07/07/20
ARIZONA, USA
Expires 12/31/21

SUBMITTAL: FINAL

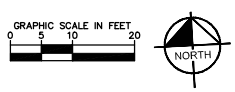
ORIGINAL PLAN DATE 07/07/2020	LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012	SHEET NUMBER 2 of 7

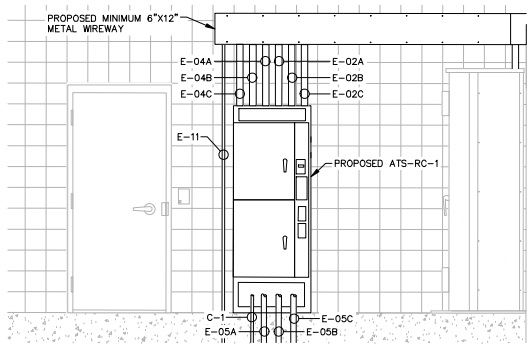
COB PLAN TRACKING #

COB PERMIT #

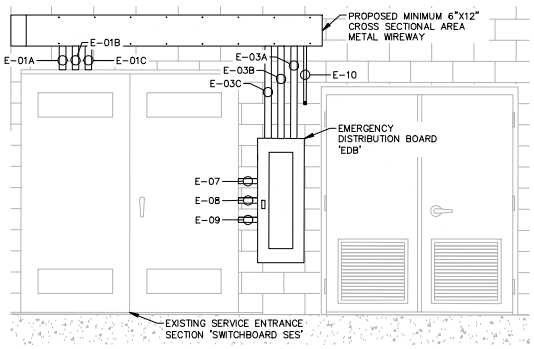


A
–
GENERATOR ADDITION SITE PLAN
SAIDE REC CENTER (1003 E. EASON)
SCALE:





B
–
ATS NORTH WALL
SAIDE REC CENTER (1003 E. EASON)
SCALE:NTS



C
–
SES EAST WALL
SAIDE REC CENTER (1003 E. EASON)
SCALE:NTS

CONSTRUCTION NOTES

1. MOUNT ATS ON 4" THICK HOUSEKEEPING PAD. SEE ONE-LINE DIAGRAM ON SHEET 4 FOR ATS EQUIPMENT AND CONNECTION DETAILS.
2. INSTALL NEW 600A 120/208V EMERGENCY DISTRIBUTION PANEL EDB. SEE ONE-LINE DIAGRAM AND PANELBOARD SUMMARY. SEE CONDUIT AND CONDUCTOR SCHEDULE FOR INTERCONNECTION DETAILS.
3. INTERCEPT CONDUIT FROM SES TO PANELBOARD AND ROUTE NEW CONDUIT TO PROPOSED ATS. PROVIDE JUNCTION BOX, ELBOW, AND NECESSARY FITTINGS PER SPECIFICATIONS TO REROUTE NEW CONDCUTORS FROM THE EXISTING PANELBOARD TO THE PROPOSED ATS. SEE CONDUIT AND CONDUCTOR SCHEDULE FOR CONDUIT AND CONDUCTOR SIZE AND QUANTITIY.
4. UNDERGROUND TRENCH DETAIL SHOWN ON SHEET 6.
5. PROVIDE GROUND RING FOR TRANSFORMER PER SPECIFICATIONS. GROUND ROD AND TEST WELL CONNECTION DETAIL SHOWN ON SHEET 5.
6. GENERATOR STRUCTURAL DETAILS SHOWN ON STRUCTURAL PLAN. SEE SHEET 6-7.
7. SEE CONDUIT SCHEDULE ON SHEET 4 FOR CONDUIT AND INTERCONNECTION DETAILS.
8. EXISTING PANEL K TO POWER GENERATOR ANCILLARY LOADS. SEE ONE-LINE DIAGRAM, CONDUIT SCHEDULE, AND PANEL SCHEDULE ON SHEET 4.
9. #5 ELECTRICAL PULLBOX. DETAIL SHOWN ON DETAILS SHEET 5.
10. PROPOSED 6" BY 12" METAL WIREWAY. WIREWAY MUST HAVE A MINIMUM CROSS SECTIONAL AREA OF 72 SQUARE INCHES.
11. PROPOSED 215 KVA, 208/120V, 3P, 4W, NEMA 3R, DIESEL GENERATOR WITH 693 GALLON BELLY TANK AND LEVEL TWO ACOUSTIC ENCLOSURE.

REVISIONS:

1

2

3

PLAN NAME

ELECTRICAL SITE PLAN

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

SUBMITTAL: FINAL

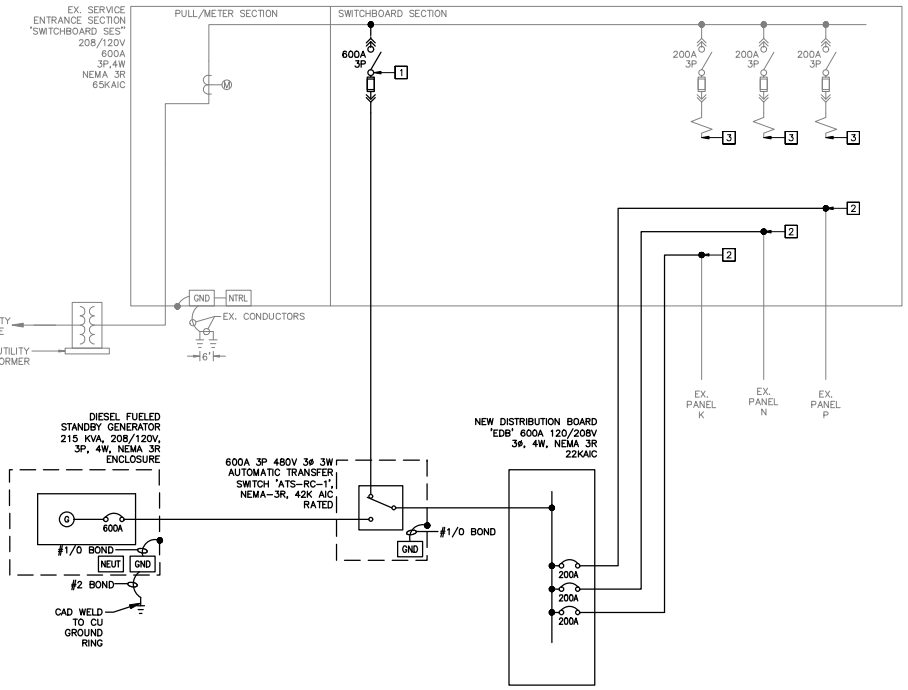
COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL Registered Professional Engineer (Electrical) CERTIFICATE NO. 50368 Michael A. Colombo Date Signed 07/07/20 ARIZONA, U.S.A. Expires 12/31/21
ORIGINAL PLAN DATE 07/07/2020	LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012	SHEET NUMBER 3 of 7

COB PLAN TRACKING #

COB PERMIT #

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.



A — ONE-LINE DIAGRAM
SCALE:NOT TO SCALE

GENERATOR LOAD CALCULATION	
LOAD DESCRIPTION	AMPS
EXISTING LOADS	
PANEL K	160
PANEL N	160
PANEL P	160
TOTAL CALCULATED PEAK DEMAND (EXISTING)	480
TOTAL REMOVED LOAD	0
PROPOSED LOADS	
PROPOSED LOAD (GENERATOR ANCILLARY LOADS)	4
TOTAL PROPOSED LOAD	4
FUTURE LOADS	0
TOTAL GEN LOAD (EXISTING-REMOVED+PROPOSED+FUTURE)	484
PERCENT LOADED % (TOTAL LOAD/600A)	80.7%

*EXISTING SITE DEMAND REFERENCED FROM 'CITY OF BUCKEYE SUNDANCE CROSSINGS MUNICIPAL TENANT IMPROVEMENT 3-17-2014 AS-BUIILT PLANS.

C — GENERATOR LOAD SUMMARY
SCALE:NOT TO SCALE

ELECTRICAL UPGRADES CONDUIT AND CABLE SCHEDULE

CONDUIT NO.	CONDUIT SIZE	CONDUIT STATUS	CONDUCTORS/CABLE QTY	CONDUCTORS/CABLE SIZE	FROM	TO	PURPOSE	REMARKS
E-01A	2.5"	NEW	4	#3/0 AWG	NEW 600A 3P SES FUSE	W/REWAY	POWER	PARALLEL SET TO ATS-RC-1. TRANSITION CONDUCTORS FROM CONDUIT TO W/REWAY.
			1	#1 AWG			GROUND	
E-01B	2.5"	NEW	4	#3/0 AWG	NEW 600A 3P SES FUSE	W/REWAY	POWER	PARALLEL SET TO ATS-RC-1. TRANSITION CONDUCTORS FROM CONDUIT TO W/REWAY.
			1	#1 AWG			GROUND	
E-01C	2.5"	NEW	4	#3/0 AWG	NEW 600A 3P SES FUSE	W/REWAY	POWER	PARALLEL SET TO ATS-RC-1. TRANSITION CONDUCTORS FROM CONDUIT TO W/REWAY.
			1	#1 AWG			GROUND	
E-02A	2.5"	NEW	4	#3/0 AWG	W/REWAY	ATS-RC-1	POWER	PA RALLEL SET TO ATS-RC-1. TRANSITION CONDUCTORS FROM W/REWAY TO CONDUIT AND ROUTE CONDUCTORS TO ATS-RC-1 FOR A COMPLETE SYSTEM.
			1	#1 AWG			GROUND	
E-02B	2.5"	NEW	4	#3/0 AWG	W/REWAY	ATS-RC-1	POWER	PA RALLEL SET TO ATS-RC-1. TRANSITION CONDUCTORS FROM W/REWAY TO CONDUIT AND ROUTE CONDUCTORS TO ATS-RC-1 FOR A COMPLETE SYSTEM.
			1	#1 AWG			GROUND	
E-02C	2.5"	NEW	4	#3/0 AWG	W/REWAY	ATS-RC-1	POWER	PA RALLEL SET TO ATS-RC-1. TRANSITION CONDUCTORS FROM W/REWAY TO CONDUIT AND ROUTE CONDUCTORS TO ATS-RC-1 FOR A COMPLETE SYSTEM.
			1	#1 AWG			GROUND	
E-03A	2.5"	NEW	4	#3/0 AWG	W/REWAY	EDB-S/WITCHGEAR-SES	POWER	PARALLEL CONDUIT TO EDE-S/AITCHGEAR-SES. TRANSITION CONDUCTORS FROM W/REWAY TO CONDUIT AND ROUTE CONDUCTORS TO EDB-S/WITCHGEAR-SES FOR A COMPLETE SYSTEM.
			1	#1 AWG			GROUND	
E-03B	2.5"	NEW	4	#3/0 AWG	W/REWAY	EDB-S/WITCHGEAR-SES	POWER	PARALLEL CONDUIT TO EDE-S/AITCHGEAR-SES. TRANSITION CONDUCTORS FROM W/REWAY TO CONDUIT AND ROUTE CONDUCTORS TO EDB-S/WITCHGEAR-SES FOR A COMPLETE SYSTEM.
			1	#1 AWG			GROUND	
E-03C	2.5"	NEW	4	#3/0 AWG	W/REWAY	EDB-S/WITCHGEAR-SES	POWER	PARALLEL CONDUIT TO EDE-S/AITCHGEAR-SES. TRANSITION CONDUCTORS FROM W/REWAY TO CONDUIT AND ROUTE CONDUCTORS TO EDB-S/WITCHGEAR-SES FOR A COMPLETE SYSTEM.
			1	#1 AWG			GROUND	
E-04A	2.5"	NEW	4	#3/0 AWG	ATS-RC-1	W/REWAY	POWER	PA RALLEL SET TO EDB-S/WITCHGEAR-SES. TRANSITION CONDUCTORS FROM CONDUIT TO W/REWAY.
			1	#1 AWG			GROUND	
E-04B	2.5"	NEW	4	#3/0 AWG	ATS-RC-1	W/REWAY	POWER	PA RALLEL SET TO EDB-S/WITCHGEAR-SES. TRANSITION CONDUCTORS FROM CONDUIT TO W/REWAY.
			1	#1 AWG			GROUND	
E-04C	2.5"	NEW	4	#3/0 AWG	ATS-RC-1	W/REWAY	POWER	PA RALLEL SET TO EDB-S/WITCHGEAR-SES. TRANSITION CONDUCTORS FROM CONDUIT TO W/REWAY.
			1	#1 AWG			GROUND	
E-05A	2.5"	NEW	4	#3/0 AWG	PULLBOX E-1	ATS-RC-1	POWER	PARALLEL CONDUIT TO ATS-RC-1
			1	#1 AWG			GROUND	
E-05B	2.5"	NEW	4	#3/0 AWG	PULLBOX E-1	ATS-RC-1	POWER	PARALLEL CONDUIT TO ATS-RC-1
			1	#1 AWG			GROUND	
E-05C	2.5"	NEW	4	#3/0 AWG	PULLBOX E-1	ATS-RC-1	POWER	PARALLEL CONDUIT TO ATS-RC-1
			1	#1 AWG			GROUND	
E-06A	2.5"	NEW	4	#3/0 AWG	GENERATOR	PULLBOX E-1	POWER	PARALLEL CONDUIT TO ATS-RC-1
			1	#1 AWG			GROUND	
E-06B	2.5"	NEW	4	#3/0 AWG	GENERATOR	PULLBOX E-1	POWER	PARALLEL CONDUIT TO ATS-RC-1
			1	#1 AWG			GROUND	
E-06C	2.5"	NEW	4	#3/0 AWG	GENERATOR	PULLBOX E-1	POWER	PARALLEL CONDUIT TO ATS-RC-1
			1	#1 AWG			GROUND	
E-07	2.5"	NEW	4	#3/0 AWG	EDB 200A BREAKER	PANEL K	POWER	ROUTE CONDUIT FROM PANEL 'EDB' TO EXISTING SES. MAKE CONNECTION TO EXISTING PANEL K FEEDER INSIDE SES.
			1	#6 AWG			GROUND	
E-08	2.5"	NEW	4	#3/0 AWG	EDB 200A BREAKER	PANEL N	POWER	ROUTE CONDUIT FROM PANEL 'EDB' TO EXISTING SES. MAKE CONNECTION TO EXISTING PANEL K FEEDER INSIDE SES.
			1	#6 AWG			GROUND	
E-09	2.5"	NEW	4	#3/0 AWG	EDB 200A BREAKER	PANEL P	POWER	ROUTE CONDUIT FROM PANEL 'EDB' TO EXISTING SES. MAKE CONNECTION TO EXISTING PANEL K FEEDER INSIDE SES.
			1	#6 AWG			GROUND	
E-10	1"	NEW	4	#8 AWG	PANEL K	W/REWAY	POWER	GENERATOR ANCILLARY LOADS. TRANSITION CONDUCTORS FROM CONDUIT TO W/REWAY. PANEL K, CKT 33 & 36
			1	#8 AWG			GROUND	
E-11	1"	NEW	4	#8 AWG	W/REWAY	PULLBOX E-1	POWER	GENERATOR ANCILLARY LOADS. TRANSITION CONDUCTORS FROM W/REWAY TO COND.IIT. PANEL K, CKT 33 & 36
			1	#8 AWG			GROUND	
E-12	1"	NEW	4	#8 AWG	PULLBOX E-1	GENERATOR	POWER	GENERATOR ANCILLARY LOADS. PANEL K, CKT 33 & 35
			1	#8 AWG			GROUND	
C-1	1"	NEW	5-PR #16 AWG		ATS-RC-1	PULLBOX C-1	POWER	GENERATOR CONTROLS
							GROUND	
C-2	1"	NEW	5-PR #16 AWG		PULLBOX C-1	GENERATOR CONTROL PANEL	POWER	GENERATOR CONTROLS
							GROUND	

B — CONDUIT AND CONDUCTOR SCHEDULE
SCALE:NOT TO SCALE

CONSTRUCTION NOTES

1. PROVIDE NEW 600A 277/480V 3P FUSED DISCONNECT IN EXISTING SES PANEL. PROVIDE NEW CONDUIT AND CONNECTION TO EMERGENCY DISTRIBUTION PANEL 'EDB'.
2. DISCONNECT LOAD SIDE OF CONDUIT COMING FROM EXISTING BREAKER. CONNECT EXISTING FEEDER TO NEW PANEL 'EDB'. ROUTE NEW CONDUIT INSIDE OF SES AND MAKE CONNECTION INSIDE SES. NOTE THE EXISTING EQUIPMENT SHOWN AS GREY AND NEW EQUIPEMENT SHOWN AS BOLD FOR CLARITY.
3. EXISTING FUSED DISCONNECT TO REMAIN WITH EXISTING LOAD TO BE RELOCATED. RELABEL DISCONNECT AS SPARE.
4. PROVIDE NEW 20A/1P BREAKER IN EXISTING SPACE IN PANEL 'K'. MATCH EXISTING AIC RATING.

PANEL: K

VOLTAGE: 120/208 PHASE, WIRES: 3ø, 4W SCCR (AMPS): 22,000 SOURCE: SES S/WITCHGEAR
PANEL BUS: 225 AMPS MAIN: MLO BREAKER

	DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION
	EXISTING LOAD		20/1	1	0			2	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	3		0		4	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	5			0	6	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	7	0			8	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	9		0		10	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	11			0	12	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	13	0			14	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	15		0		16	20/1		EXISTING LOAD
	EXISTING LOAD		50/2	17			0	18	20/1		EXISTING LOAD
				19	0			20	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	21		0		22	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	23			0	24	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	25	0			26	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	27		0		28	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	29			0	30	20/1		EXISTING LOAD
	EXISTING LOAD		20/1	31	0			32	20/1		EXISTING LOAD
4	GENERATOR BATTERY CHARGER	180	20/1	33		2		34	20/1		SPARE
4	GENERATOR SLOCK HEATER	180	20/1	35			2	36	20/1		SPARE
	SPACE			37	0			38	30/2		EXISTING LOAD
	SPACE			39		0		40			SPACE
	SPACE			41			0	42			SPACE
			TOTALS		0.0	1.5	1.5	AMPS			

LOAD CALCULATIONS:
SUBTOTAL (VA): 360
+25% PER NEC (VA): 90
TOTAL (VA): 450 @ 208V, 3Ø = 1.3 AMPS

D — PANEL K LOAD SUMMARY
SCALE:NOT TO SCALE

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	Isc	**% Vdrop
1	Utility Published Data	39066	39,066										39,066	
2	SES	1	39,066	NM	Copper	3	Set of	3/0	600	50	480	3	33,426	0.32%
3	ATS	2	33,426	NM	Copper	3	Set of	3/0	600	5	480	3	32,950	0.35%
4	EDP-SWITCHBAORD-SES	3	32,950	NM	Copper	3	Set of	3/0	600	20	480	3	31,175	0.48%

E — FAULT CURRENT CALCULATION
SCALE:NOT TO SCALE

CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100 1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL ONE LINE DIAGRAM

ENGINEER INFORMATION
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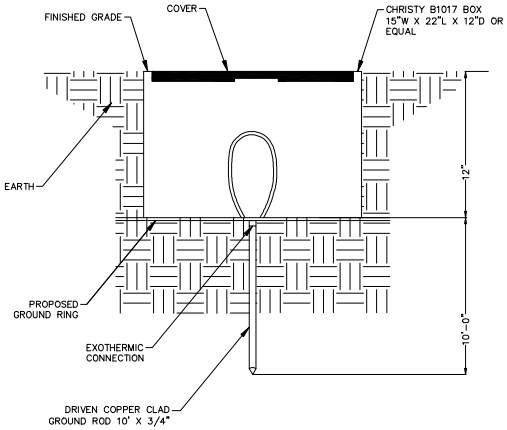
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

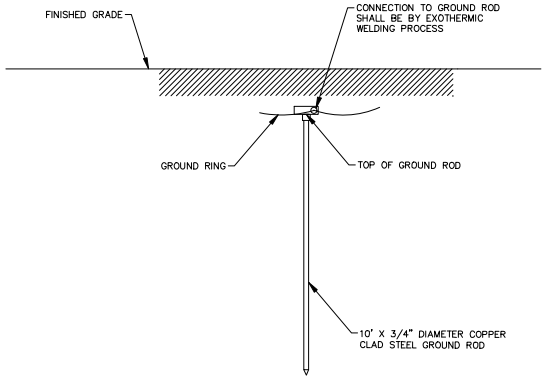
COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Registered Professional Engineer CERTIFICATE NO. 30361 Michael K. Colonno Date Signed 07/07/20 ARIZONA, USA
Expires 12/31/21

SUBMITTAL: FINAL

ORIGINAL PLAN DATE 07/07/2020
LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012
SHEET NUMBER 4 of 7
COB PLAN TRACKING #
COB PERMIT #



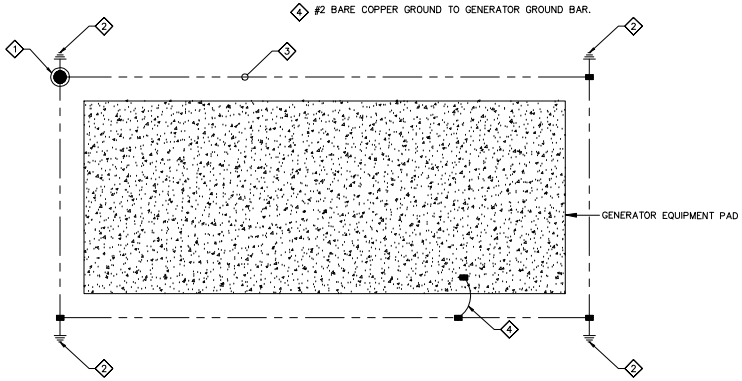
A — GROUNDING TEST WELL DETAIL
SCALE:N.T.S.



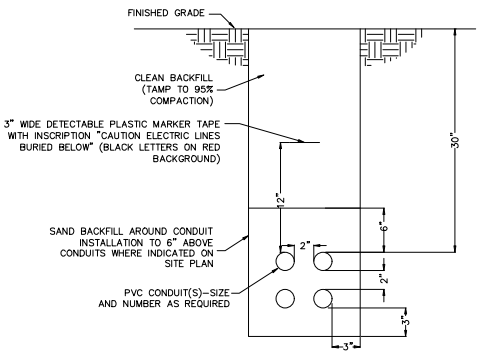
B — GROUND ROD DETAIL
SCALE:N.T.S.

GROUNDING NOTES

1. PROVIDE GROUND TEST POINT PER GROUDING TEST WELL DETAIL.
2. PROVIDE 10' X 3/4" COPPER CLAD GROUND ROD PER GROUND ROD DETAIL .
3. #2 BARE COPPER GROUND GRID BURIED AT 30" BELOW FINISHED GRADE.
4. #2 BARE COPPER GROUND TO GENERATOR GROUND BAR.



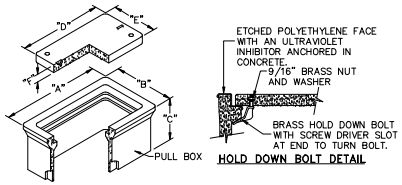
C — GENERATOR GROUNDING PLAN
SCALE:N.T.S.



ALL DIMENSIONS ARE
MINIMUM

NOTE:
1) THIS CONDUIT DUCT BANK DETAIL SHALL BE REFERENCED FOR ALL UNDER GROUND CONDUIT INSTALLATIONS.

D — TYPICAL UNDERGROUND CONDUIT INSTALLATION DETAIL
SCALE:NOT TO SCALE



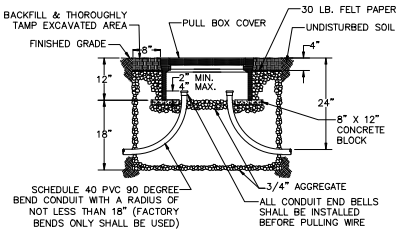
HOLD DOWN BOLT DETAIL



LID 'A' REINFORCED CONCRETE W/HOLD DOWN BOLTS

LID 'A'

DATA TABLE						
PULLBOX TYPE	PULLBOX LENGTH "A"	PULLBOX WIDTH "B"	PULLBOX HEIGHT "C"	LID LENGTH "D"	LID WIDTH "E"	LID HEIGHT "F"
#3 1/2	19-3/4"	14-1/4"	12"	15-1/4"	10"	1-3/4"
#5	25-1/4"	15-3/4"	12"	20-5/8"	10-1/2"	2"
#7	34-3/4"	21-3/4"	12"	30-1/8"	17-5/8"	2"



GENERAL NOTES:

1. THE PULL BOX SHALL BE MADE OF A HIGH DENSITY REINFORCED CONCRETE MATERIAL WITH END & SIDE KNOCKOUTS, & NONSETTLING SHOULDERS TO MAINTAIN GRADE, MANUFACTURED WITH APPROXIMATE DIMENSIONS AS SHOWN.
2. STEEL REINFORCEMENT SHALL BE AS REGULARLY USED IN STANDARD PRODUCTS OF THE RESPECTIVE MANUFACTURER.
3. COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS: "ELECTRIC" OR "HIGH VOLTAGE", AS REQUIRED.
4. THE PULL BOX SHALL HAVE AN ETCHED POLYETHYLENE FACE WITH AN ULTRAVIOLET INHIBITOR ANCHORED IN CONCRETE.

E — PULL BOX INSTALLATION DETAIL
SCALE:NOT TO SCALE

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL DETAILS

ENGINEER INFORMATION
Kimley»Horn
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PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

AS-BUILT SEAL

DESIGN SEAL
Registered Professional Engineer
CERTIFICATE NO.
30360
Michael K. Colonno
Date Signed 07/07/20
ARIZONA, USA
Expires 12/31/21

CALL TWO WORKING DAYS BEFORE YOU DIG
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1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	5 of 7

COB PLAN TRACKING #

COB PERMIT #

STRUCTURAL GENERAL NOTES

DESIGN SPECIFICATIONS

2018 INTERNATIONAL BUILDING CODE (IBC) WITH THE CITY OF BUCKEYE AMENDMENTS.

DESIGN LOADS

WIND LOADS: (PER ASCE 7-16)
- BASIC WIND SPEED = ULTIMATE DESIGN WIND SPEED . . . . . .101 MPH
- RISK CATEGORY II
- Iw 1.00
- STRUCTURE TYPE . . . . . .SOLID FREE-STANDING WALL
- EXPOSURE . . . . . ."C"

MAIN WIND FORCE RESISTING SYSTEM:
- DESIGN WIND PRESSURE . . . . . .15.72 psf (STRENGTH LEVEL)
- INTERNAL PRESSURE COEFFICIENT 0.00

EARTHQUAKE DESIGN DATA:
- Ie 1.00
- SITE CLASS . . . . . .D
- Ss . . . . . 0.167g S1 . . . . . .0.077g
- Sms . . . . . 0.178g Sm1 . . . . . .0.123g
- SEISMIC DESIGN CATEGORY . . . . . .B
- DESIGN BASE SHEAR (Cs*W) 0.051W
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

EARTH LOADS:
- ALLOWABLE BEARING PRESSURE = 1500 PSF
- ACTIVE EARTH PRESSURE = 45 PCF
- AT-REST EARTH PRESSURE = 60 PCF
- PASSIVE EARTH PRESSURE = 100 PCF
- = 0.25 (W/OUT PASSIVE PRESSURE)
- MODULUS OF SUBGRADE REACTION = 100 PCI

FOUNDATIONS

FOOTING BEARING DEPTH = 20" MIN.

FOR TOP OF FOOTING ELEVATIONS, SEE PERIMETER WALL PLAN THIS SHEET.

ALL EXCAVATION SHALL BE PROPERLY BACKFILLED. FOOTING BACKFILL WITHIN THE FOOTING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE SPECIAL INSPECTOR. FLOODING WILL NOT BE PERMITTED.

WALL BACKFILL MATERIAL, PLACEMENT AND COMPACTION SHOULD COMPLY IN FULL WITH THE PROJECT SPECIFICATIONS. COMPACTION OF EACH LIFT ADJACENT TO WALLS SHALL BE ACCOMPLISHED WITH HAND OPERATED TAMPERS OR OTHER LIGHTWEIGHT COMPACTORS. FLOODING OR JETTING IS PROHIBITED.

SLAB ON GRADE SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. SLAB ON GRADE PREPARATION SHALL BE PREPARED AS STATED IN THE PROJECT SPECIFICATIONS. FOR SLAB-ON-GRADE, THE UPPER 12 INCHES OF SUBGRADE SOILS AND AGGREGATE SUBBASE SHOULD CONSIST OF IMPORTED LOW VOLUME CHANGE MATERIALS." EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE SPECIAL INSPECTOR PRIOR TO PLACING THE CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR WHEN THE EXCAVATIONS ARE READY FOR INSPECTION. THE SPECIAL INSPECTOR SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE SPECIAL INSPECTOR, FOOTING ELEVATIONS, OR FOOTING DESIGNS WILL BE ALTERED BY CHANGE ORDER.

CONCRETE REINFORCING

SEE MAG STANDARD SPECIFICATIONS SECTION 505 AND 725 CLASS A (TYPE II) CONCRETE.

MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH, f'c = 3000 PSI.
REINFORCING STEEL, ASTM A615 GRADE 60, fy = 60,000 PSI.

MASONRY AND REINFORCING:

MASONRY: F'm = 1500 PSI; ASTM C90; MEDIUM WEIGHT; RUNNING BOND; STANDARD BLOCK

MORTAR: ASTM C270; TYPE S; CUBE STRENGTH = 1800 PSI

GROUT: ASTM C476, TYPE = COARSE; CUBE STRENGTH = 2000 PSI.

JOINT NOTES

CONCRETE:
FOOTINGS AND SLAB ON GRADE MAY BE CONTINUOUS WITH NO JOINT.

MASONRY:
MASONRY WALL MAY BE CONTINUOUS WITH NO JOINTS.

DIMENSIONS

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND ELEVATIONS WITH THE CIVIL GRADING DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY PRIOR TO START OF CONSTRUCTION.

GENERAL

THE CONTRACT PERIMETER WALL AND SLAB DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO , BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. CONTRACTOR IS RESPONSIBLE FOR ALL O.S.H.A. REQUIREMENTS, NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES AND/OR CONFLICTS.

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ARIZONA.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PROVIDED PER 2018 INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17.

A. STEEL CONSTRUCTION (SECTION 1705.2)
B. CONCRETE CONSTRUCTION (TABLE 1705.3)
C. MASONRY CONSTRUCTION (SECTION 1705.4)
D. SOILS (TABLE 1705.6)

POST-INSTALLED ANCHORS

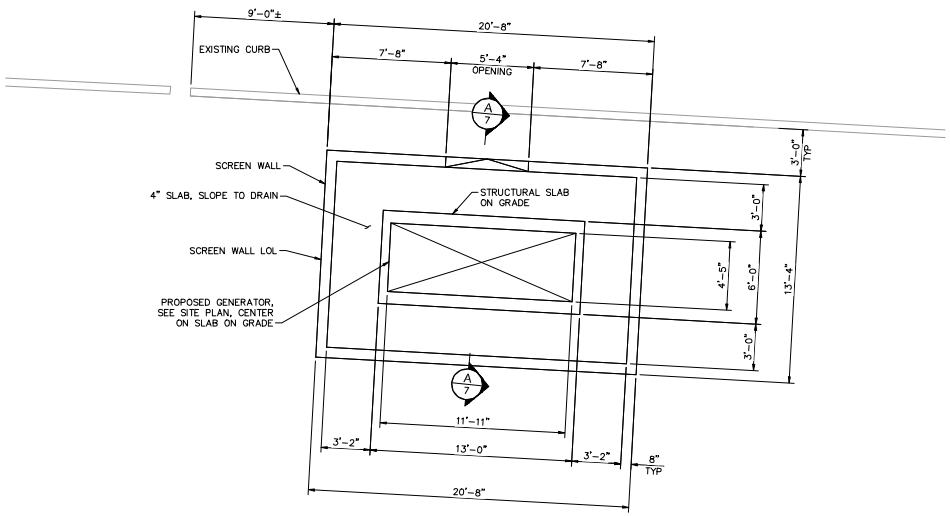
1. UNLESS NOTED OTHERWISE ON PLANS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES, OR APPROVED EQUAL:

	ADHESIVE ANCHOR	MECHANICAL ANCHOR
SOLID CONCRETE	HILTI RE 500 V3 HILTI HY 200 SAFE SET SYSTEM	HILTI KWIK HUS EZ HILTI KWIK BOLT TZ
GROUTED MASONRY	HILTI HY 270	HILTI KWIK BOLT 3
HOLLOWED MASONRY OR BRICK	HILTI HY 270 W/ APPROPRIATE TUBE SCREEN	HILTI HLC SLEEVE ANCHOR

2. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.
3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
4. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
5. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
6. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AWAY FROM THE LOCATIONS OF THE CONCRETE ANCHORS.

ABBREVIATIONS

ASTM.....AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL
CLR.....CLEARANCE
CONT.....CONTINUOUS
MAX.....MAXIMUM
MIN.....MINIMUM
MPH.....MILES PER HOUR
O.C.....ON CENTER
PCF.....POUNDS PER CUBIC FOOT
PSF.....POUNDS PER SQUARE FOOT
PSI.....POUNDS PER SQUARE INCH
TYP.....TYPICAL
LOL.....LAYOUT LINE
T/F.....TOP OF FOUNDATION
T/W.....TOP OF WALL



A
–
PROPOSED GENERATOR LOCATIONS
SAIDE REC CENTER (1003 E. EASON)
SCALE:1/4"=1'-0"

NORTH

NOTE:

CONTRACTOR SHALL VERIFY LOCATION OF SLAB AND ENCLOSURE WALL PRIOR TO CONSTRUCTION. ENCLOSURE WALL SHALL BE 3'-0" FROM THE BACK FACE OF CURB. NOTIFY ENGINEER OF ANY DISCREPANCIES.

REVISIONS:
1
2
3

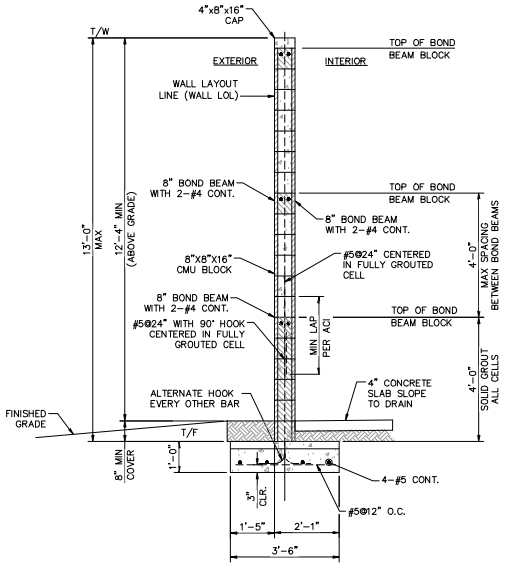
PLAN NAME
STRUCTURAL NOTES AND PLAN

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

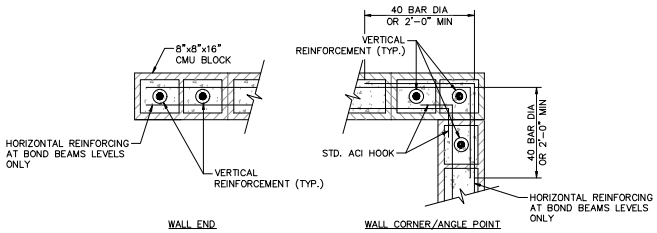
COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Professional Engineer (Civil) CERTIFICATE NO. 60164 NATHAN MERRILL Registered Arizona USA
ORIGINAL PLAN DATE 07/07/2020
LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012
SHEET NUMBER 6 of 7

SUBMITTAL: FINAL
COB PLAN TRACKING #
COB PERMIT #

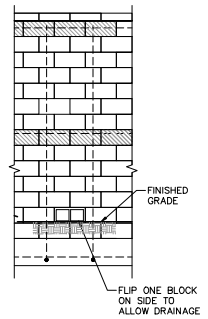
CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)



1 — **WALL SECTION**
SCALE:1/2"=1'-0"



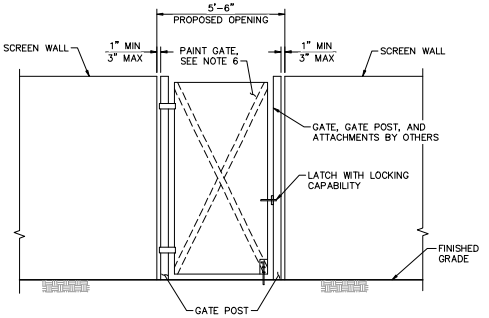
2 — **TYPICAL MASONRY DETAILS**
SCALE:NOT TO SCALE



NOTE:

IF THE LOW POINT OF ENCLOSURE SLAB IS NOT AT OPENING, PROVIDE DRAINAGE BLOCK AS SHOWN IN DETAIL.

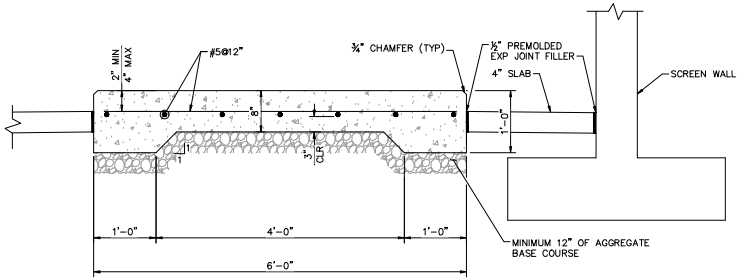
4 — **WALL DRAIN DETAIL**
SCALE:3/8"=1'-0"



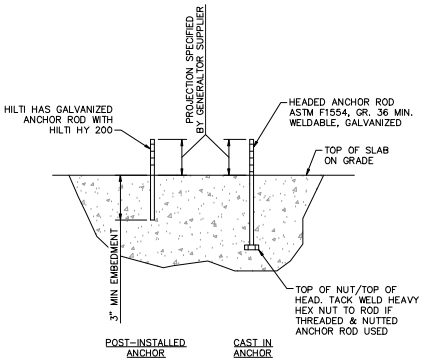
3 — **GATE DETAIL**
SCALE:3/8"=1'-0"

GATE NOTES:

1. GATE DESIGN SHALL BE IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION'S CODE REQUIREMENTS. THE GATE MANUFACTURER SHALL HAVE A LICENSED PROFESSIONAL ENGINEER SEAL AND SIGN THE GATE CALCULATIONS AND SHOP DRAWINGS.
2. LOAD COMBINATIONS USED IN GATE DESIGN SHALL BE IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE.
3. GATE DEFLECTION IN THE VERTICAL DIRECTION SHALL NOT EXCEED ½".
4. IF GATE FOUNDATIONS ARE NECESSARY, SIZES AND LOCATIONS SHALL BE DESIGNATED BY THE GATE MANUFACTURER AND APPROVED BY THE ENGINEER OF RECORD BEFORE CONSTRUCTION.
5. CENTER GATE DOOR IN PROPOSED OPENING.
6. SUBMIT PAINT COLOR TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. GATE SHALL BE GRAY OR BLACK.
7. SUBMIT GATE SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED CIVIL ENGINEER IN THE STATE OF ARIZONA.
8. HOT DIP GALVANIZE STEEL GATE ELEMENTS ACCORDING TO ASTM A123/A123M.



A — **GENERATOR CONCRETE PAD**
SCALE:1'=1'



B — **TYP ANCHOR DETAIL**
SCALE:NOT TO SCALE

NOTES:

1. POST-INSTALLED ADHESIVE ANCHOR RODS ARE ACCEPTABLE IN LIEU OF CAST-IN HEADED ANCHOR RODS AT GENERATOR ANCHOR LOCATIONS.
2. POST-INSTALLED ADHESIVE ANCHOR RODS SHALL STRICTLY FOLLOW MANUFACTURER'S INSTRUCTIONS FOR HOLE SIZE, DRILLING OPERATIONS, PREPARATION, AND MATERIAL HANDLING.
3. SETTING TEMPLATES SHALL BE USED TO SUPPORT ANCHOR RODS DURING CONCRETE PLACEMENT.
4. ANCHOR RODS SHALL BE INSTALLED PLUMB TO FACILITATE THE WASHER AND NUT RESTING FLUSH ON THE BASE PLATE.
5. ALTERNATE POST-INSTALLED ANCHORAGE SYSTEM OF EQUAL PROPERTIES MAY BE USED IN LEIU OF DETAIL SHOWN UPON ENGINEERS APPROVAL.
6. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.

REVISIONS:
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2
3

PLAN NAME
STRUCTURAL DETAILS

ENGINEER INFORMATION
Kimley»Horn
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COB PERMITTING APPROVED SEAL
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Professional Engineer CERTIFICATE NO. 60164 NATHAN MERRILL Date Signed 07/07/20 ARIZONA, U.S.A.

SUBMITTAL: FINAL
COB PLAN TRACKING #
COB PERMIT #

ORIGINAL PLAN DATE 07/07/2020
LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012
SHEET NUMBER 7 of 7

CALL TWO WORKING DAYS BEFORE YOU DIG 602-263-1100 1-800-STAKE-IT (OUTSIDE MARICOPA COUNTY)

SAIDE REC CENTER (1003 E. EASON)

City of Buckeye Emergency Generator Repair: Buckeye, AZ

STRUCTURAL CALCULATIONS FOR: Saide Rec Center Generator Pad

Prepared By:
Nathan Merrill, PE
Ph: 602-371-4573
Kimley-Horn and Associates, Inc.
7740 N. 16th St
Suite 300
Phoenix AZ, 85020



Date: May 2020

Kimley»Horn

Design References:

1. 2018 International Building Code

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5.3 Generator Specifications.....44

1. DESIGN LOADS

Kimley»Horn

Project: ***Emergency Generator Repair - Saide Rec Center*** *Subject:* ***Generator Pad Load Summary***

Designed by: ***ALF*** *Date:* ***04/29/2020*** *Checked by:* *Date:*

Table of Contents
Defined Units

Assumptions

Assume Generator is supplying power to Risk Category II structures, therefore generator is RC II.

Assume Generator is anchored to concrete pad at the 4 corners of the acoustic generator pad, not acoustic enclosure.

Assume X direction aligns with generator length, and Y direction aligns with generator width.

Acoustic Enclosure dimensions used to calculate wind loads.

Generator Specifications

$L_{gen} := 136in = 11.33\,ft$	Length of generator - 175 kW Diesel Generator Specification - see appendix.
$W_{gen} := 53in = 4.42\,ft$	Width of generator - 175 kW Diesel Generator Specification - see appendix.
$H_{gen} := 98in = 8.17\,ft$	Height of Generator - 175 kW Diesel Generator Specification - see appendix.
$L_{enc} := 143in = 11.92\,ft$	Length of Enclosure - 175 kW Diesel Generator Specification - see appendix..
$W_{enc} := 53in = 4.42\,ft$	Width of Enclosure - 175 kW Diesel Generator Specification - see appendix.
$H_{enc} := 133in = 11.08\,ft$	Height of Enclosure - 175 kW Diesel Generator Specification - see appendix.
$n_{anchors} := 4$	Number of Anchors assumed.

Soils Information

Assume conservative values from IBC Section 1610 & 1806

$p_a := 45pcf$	Active Soil Pressure
$p_{ar} := 60pcf$	At-Rest Soil Pressure
$p_p := 100pcf$	Passive Soil Pressure
$w_{soil} := 120pcf$	Unit Weight of Soil
$\mu := 0.25$	Soil Sliding Friction Factor

Generator Loading

$q_{wind} := 15.72psf$ — Applied Wind pressure. Maximum Tedds Run - see Wind Loading Calculations

$V_{seismic} := 0.6kip$ — Seismic Base Shear - see Seismic Loading Calculations. Apply at mid height of equipment to calculate anchor reactions.

$Weight_{gen} := 11.676kip$ — 175 kW Diesel Generator Specification - see appendix.

$$X_{wind} := \frac{\left(q_{wind} \cdot W_{enc} \cdot H_{enc}\right)}{n_{anchors}} = 0.19 \cdot kip$$

$$Y_{wind} := \frac{\left(q_{wind} \cdot L_{enc} \cdot H_{enc}\right)}{n_{anchors}} = 0.52 \cdot kip$$

$$Z_{wind} := \frac{\left[\frac{\left[\left(q_{wind} \cdot L_{enc} \cdot H_{enc}\right) \cdot \frac{H_{enc}}{2}\right]}{\left(\frac{W_{gen}}{2}\right)}\right]}{\frac{n_{anchors}}{2}} = 2.61 \cdot kip$$

Governing uplift- assumed wind is acting on Length of enclosure. Couple analyzed in Y direction for governing uplift - used for anchor design. Dead Load not added - conservative

$$Z_{seismic} := \frac{\left[\frac{\left[\left(V_{seismic}\right) \cdot \frac{H_{enc}}{2}\right]}{\left(\frac{W_{gen}}{2}\right)}\right]}{\frac{n_{anchors}}{2}} = 0.75 \cdot kip$$

Seismic uplift/compression - couple analyzed in Y direction for governing uplift

By inspection Wind Governs anchor and slab design.

$$Z_{strength} := \left(1.2 \cdot \frac{Weight_{gen}}{n_{anchors}}\right) + Z_{wind} = 6.11 \cdot kip$$

Vertical Shear transferred through anchor. Used for slab design

Bearing Check

Check governs over enercalc design - uses full slab area instead of 1 ft tributary width

$L_{pad} := 13ft$ — Length of pad

$W_{pad} := 6ft$ — Width of pad

Assumed bearing Capacity

$\sigma_{brg} := 1500psf$

$C_{brg} := \sigma_{brg} \cdot L_{pad} \cdot W_{pad} = 117 \cdot kip$ — Bearing Capacity

$D_{brg} := Z_{strength} \cdot n_{anchors} = 24.43 \cdot kip$ — Bearing Demand

$CH_{brg} := if\left(C_{brg} > D_{brg}, "OK", "NG"\right) = "OK"$

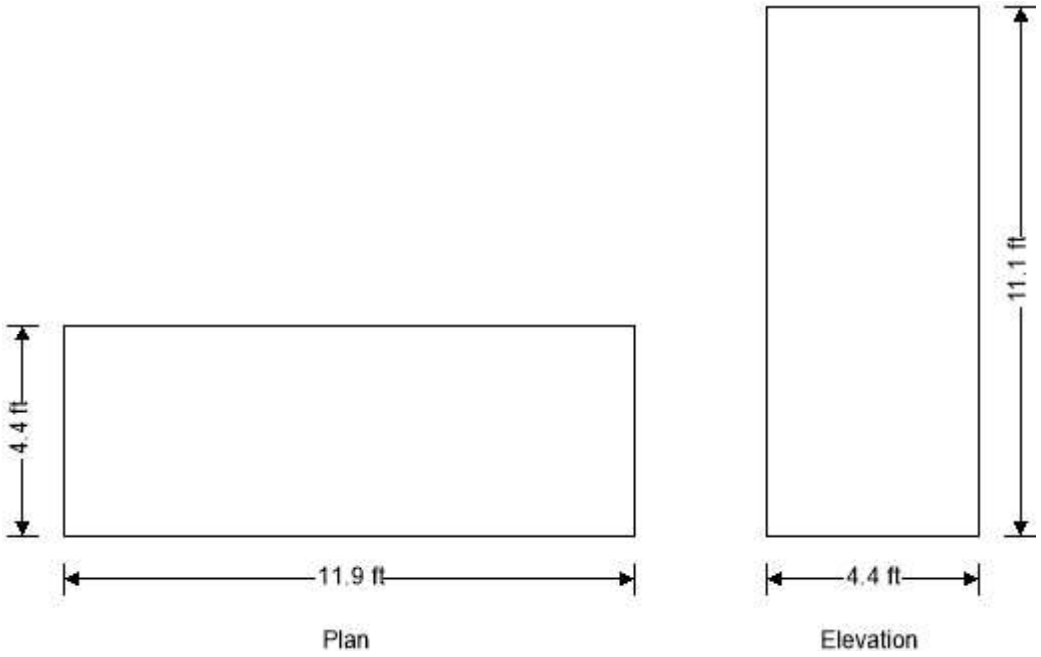
1.1 WIND LOADS

WIND LOADING

In accordance with ASCE7-16

Using the directional design method

Tedds calculation version 2.1.03



Building data

Type of roof	Flat
Length of building	b = **11.92** ft
Width of building	d = **4.42** ft
Height to eaves	H = **11.08** ft
Mean height	h = **11.08** ft

General wind load requirements

Basic wind speed	V = **101.0** mph
Risk category	II
Velocity pressure exponent coef (Table 26.6-1)	K_d = **0.85**
Ground elevation above sea level	z_{gl} = **876** ft
Ground elevation factor	$K_e = \exp(-0.0000362 \times z_{gl}/1ft)$ = **0.97**
Exposure category (cl 26.7.3)	C
Enclosure classification (cl.26.12)	Enclosed buildings
Internal pressure coef +ve (Table 26.13-1)	GC_{pi_p} = **0.18**
Internal pressure coef –ve (Table 26.13-1)	GC_{pi_n} = **-0.18**
Gust effect factor	G_f = **0.85**
Minimum design wind loading (cl.27.4.7)	p_{min_r} = **8** lb/ft^2

Topography

Topography factor not significant	K_{zt} = 1.0
Velocity pressure equation	$q = 0.00256 \times K_z \times K_{zt} \times K_d \times V^2 \times 1psf/mph^2$

Velocity pressures table

z (ft)	K_z (Table 26.10-1)	q_z (psf)
11.08	0.85	18.28

Peak velocity pressure for internal pressure

Peak velocity pressure – internal (as roof press.) q_i = **18.28** psf

Pressures and forces

Net pressure $p = q \times G_f \times C_{pe} - q_i \times GC_{pi}$

Net force $F_w = p \times A_{ref}$

Roof load case 1 - Wind 0, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (-ve)	11.08	-1.30	18.28	-23.49	52.69	-1.24

Total vertical net force $F_{w,v}$ = **-1.24** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 1 - Wind 0, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	11.08	0.80	18.28	9.14	132.07	1.21
B	11.08	-0.50	18.28	-11.06	132.07	-1.46
C	11.08	-0.70	18.28	-14.17	48.97	-0.69
D	11.08	-0.70	18.28	-14.17	48.97	-0.69

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_0} = b \times H$ = **132.07** ft^2

Projected vertical area of roof $A_{vert\_r\_0}$ = **0.00** ft^2

Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_0} + p_{min\_r} \times A_{vert\_r\_0}$ = **2.11** kips

Leeward net force $F_l = F_{w,wB}$ = **-1.5** kips

Windward net force $F_w = F_{w,wA}$ = **1.2** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min})$ = **2.7** kips

Roof load case 2 - Wind 0, GC_{pi} -0.18, $-0c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (+ve)	11.08	-0.18	18.28	0.49	52.69	0.03

Total vertical net force $F_{w,v}$ = **0.03** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 2 - Wind 0, GC_{pi} -0.18, $-0c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	11.08	0.80	18.28	15.72	132.07	2.08
B	11.08	-0.50	18.28	-4.48	132.07	-0.59
C	11.08	-0.70	18.28	-7.59	48.97	-0.37
D	11.08	-0.70	18.28	-7.59	48.97	-0.37

Overall loading

Projected vertical plan area of wall — $A_{vert\_w\_0} = b \times H =$ **132.07** ft^2

Projected vertical area of roof — $A_{vert\_r\_0} =$ **0.00** ft^2

Minimum overall horizontal loading — $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_0} + p_{min\_r} \times A_{vert\_r\_0} =$ **2.11** kips

Leeward net force — $F_l = F_{w,wB} =$ **-0.6** kips

Windward net force — $F_w = F_{w,wA} =$ **2.1** kips

Overall horizontal loading — $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min}) =$ **2.7** kips

Roof load case 3 - Wind 90, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (-ve)	11.08	-1.24	18.28	-22.61	24.49	-0.55
B (-ve)	11.08	-0.73	18.28	-14.60	24.49	-0.36
C (-ve)	11.08	-0.67	18.28	-13.73	3.71	-0.05

Total vertical net force — $F_{w,v} =$ **-0.96** kips

Total horizontal net force — $F_{w,h} =$ **0.00** kips

Walls load case 3 - Wind 90, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	11.08	0.80	18.28	9.14	48.97	0.45
B	11.08	-0.27	18.28	-7.41	48.97	-0.36
C	11.08	-0.70	18.28	-14.17	132.07	-1.87
D	11.08	-0.70	18.28	-14.17	132.07	-1.87

Overall loading

Projected vertical plan area of wall — $A_{vert\_w\_90} = d \times H =$ **48.97** ft^2

Projected vertical area of roof — $A_{vert\_r\_90} =$ **0.00** ft^2

Minimum overall horizontal loading — $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_90} + p_{min\_r} \times A_{vert\_r\_90} =$ **0.78** kips

Leeward net force — $F_l = F_{w,wB} =$ **-0.4** kips

Windward net force — $F_w = F_{w,wA} =$ **0.4** kips

Overall horizontal loading — $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min}) =$ **0.8** kips

Roof load case 4 - Wind 90, GC_{pi} -0.18, $+c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (+ve)	11.08	-0.18	18.28	0.49	24.49	0.01
B (+ve)	11.08	-0.18	18.28	0.49	24.49	0.01
C (+ve)	11.08	-0.18	18.28	0.49	3.71	0.00

Total vertical net force $F_{w,v}$ = **0.03** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 4 - Wind 90, GC_{pi} -0.18, $+c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	11.08	0.80	18.28	15.72	48.97	0.77
B	11.08	-0.27	18.28	-0.83	48.97	-0.04
C	11.08	-0.70	18.28	-7.59	132.07	-1.00
D	11.08	-0.70	18.28	-7.59	132.07	-1.00

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_90} = d \times H$ = **48.97** ft^2

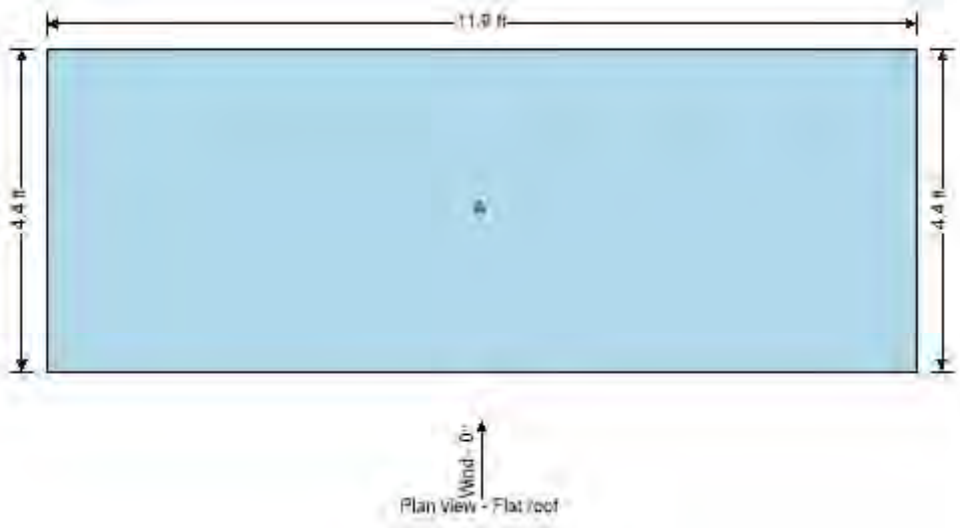
Projected vertical area of roof $A_{vert\_r\_90}$ = **0.00** ft^2

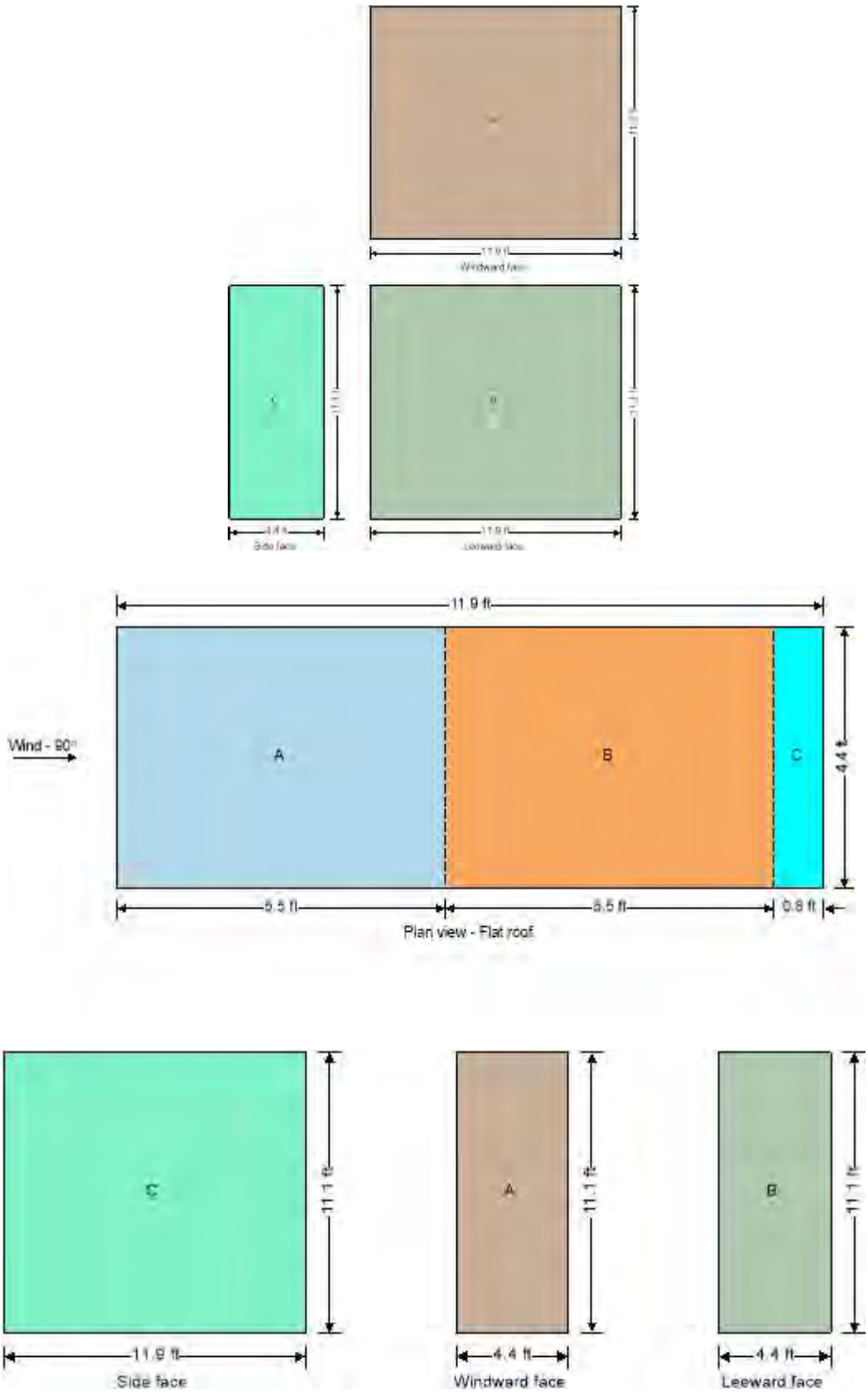
Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_90} + p_{min\_r} \times A_{vert\_r\_90}$ = **0.78** kips

Leeward net force $F_l = F_{w,wB}$ = **0.0** kips

Windward net force $F_w = F_{w,wA}$ = **0.8** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min})$ = **0.8** kips




11.9 ft
Wind - 90°
A
B
C
4.4 ft
5.5 ft
5.5 ft
0.8 ft
Plan view - Flat roof
11.1 ft
11.9 ft
Side face
4.4 ft
Windward face
Leeward face

1.2 SEISMIC LOADS

SEISMIC FORCES (ASCE 7-16)

Tedds calculation version 3.1.00

Site parameters

Site class	D, Soil properties not known
Mapped acceleration parameters (Section 11.4.2)	
at short period	S_S = **0.167**
at 1 sec period	S_1 = **0.077**
Site coefficientat short period (Table 11.4-1)	F_a = **1.600**
at 1 sec period (Table 11.4-2)	F_v = **2.400**

Spectral response acceleration parameters

at short period (Eq. 11.4-1)	$S_{MS} = F_a \times S_S$ = **0.267**
at 1 sec period (Eq. 11.4-2)	$S_{M1} = F_v \times S_1$ = **0.185**

Design spectral acceleration parameters (Sect 11.4.4)

at short period (Eq. 11.4-3)	$S_{DS} = 2 / 3 \times S_{MS}$ = **0.178**
at 1 sec period (Eq. 11.4-4)	$S_{D1} = 2 / 3 \times S_{M1}$ = **0.123**

Seismic design category

Occupancy category (Table 1-1)	II
Seismic design category based on short period response acceleration (Table 11.6-1)	B
Seismic design category based on 1 sec period response acceleration (Table 11.6-2)	B
Seismic design category	B

Approximate fundamental period

Height above base to highest level of building	h_n = **11.08** ft
From Table 12.8-2:	
Structure type	Steel moment frame
Building period parameter C_t	C_t = **0.028**
Building period parameter x	x = **0.80**
Approximate fundamental period (Eq 12.8-7)	$T_a = C_t \times (h_n)^x \times 1\text{sec} / (1\text{ft})^x$= **0.192** sec
Building fundamental period (Sect 12.8.2)	$T = T_a$ = **0.192** sec
Long-period transition period	T_L = **6** sec

Seismic response coefficient

Seismic force-resisting system (Table 12.2-1)	C_MOMENT_RESISTING_FRAME_SYSTEMS 4. Steel ordinary moment frames
Response modification factor (Table 12.2-1)	R = **3.5**
Seismic importance factor (Table 1.5-2)	I_e = **1.000**
Seismic response coefficient (Sect 12.8.1.1)	
Calculated (Eq 12.8-3)	$C_{s\_calc} = S_{DS} / (R / I_e)$ = **0.0509**
Maximum (Eq 12.8-3)	$C_{s\_max} = S_{D1} / ((T / 1\text{ sec}) \times (R / I_e))$ = **0.1835**
Minimum (Eq 9.5.5.2.1-3)	$C_{s\_min} = \max(0.044 \times S_{DS} \times I_e, 0.01)$ = **0.0100**

Seismic response coefficient	C_s = **0.0509**

Seismic base shear (Sect 12.8.1)

Effective seismic weight of the structure	W = **11.7** kips
Seismic response coefficient	C_s = **0.0509**
Seismic base shear (Eq 12.8-1)	$V = C_s \times W$ = **0.6** kips

2. SLAB ON GRADE DESIGN

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - Saide Rec Center

CODE REFERENCES

Calculations per ACI 318-14, IBC 2015, CBC 2016, ASCE 7-10
Load Combinations Used : ASCE 7-16

Material Properties

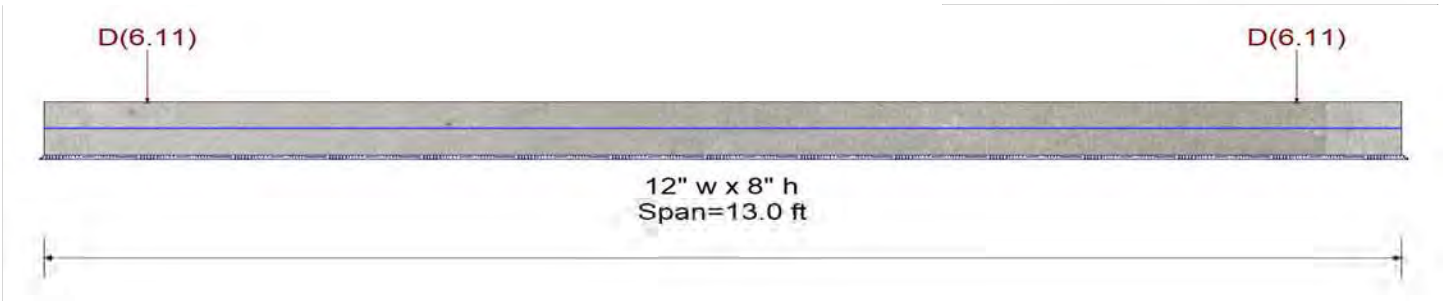
f'c	=	3.0 ksi	ϕ Phi Values	Flexure :	0.90
fr = f'c$^{1/2}$ * 7.50	=	410.792 psi		Shear :	0.750
ψ Density	=	145.0 pcf	β_1	=	0.850
λ Lt Wt Factor	=	1.0			
Elastic Modulus	=	3,122.0 ksi			

Soil Subgrade Modulus = 100.0 psi / (inch deflection)
Load Combination : ASCE 7-16

fy - Main Rebar	=	60.0 ksi	Fy - Stirrups	=	40.0 ksi
E - Main Rebar	=	29,000.0 ksi	E - Stirrups	=	29,000.0 ksi
			Stirrup Bar Size #	=	# 4
			Number of Resisting Legs Per Stirrup		2



Beam is supported on an elastic foundation,



Cross Section & Reinforcing Details

Rectangular Section, Width = 12.0 in, Height = 8.0 in
Span #1 Reinforcing....
1-#6 at 4.0 in from Top, from 0.0 to 13.0 ft in this span

Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Point Load : D = 6.110 k @ 1.0 ft
Point Load : D = 6.110 k @ 12.0 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.982 : 1	Maximum Deflection	
Section used for this span		Typical Section	Max Downward L+Lr+S Deflection	0.000 in
Mu : Applied		-6.941 k-ft	Max Upward L+Lr+S Deflection	0.000 in
Mn * Phi : Allowable		7.066 k-ft	Max Downward Total Deflection	0.189 in
Load Combination		D Only	Max Upward Total Deflection	-0.021 in
Location of maximum on span		6.576 ft		
Span # where maximum occurs		Span # 1		

Bearing pressures checked in Mathcad for full slab area

Maximum Soil Pressure =	2.718 ksf	at	13.00 ft	LdComb: D Only
Allowable Soil Pressure =	1.50 ksf	EXCEEDED!		

Shear Stirrup Requirements

Entire Beam Span Length : Vu < PhiVc/2, Req'd Vs = Not Reqd, use stirrups spaced at 0.000 in

Maximum Forces & Stresses for Load Combinations

Load Combination / Segment Length	Span #	Location (ft) in Span	Bending Stress Results (k-ft) Mu : Max	Phi*Mnx	Stress Ratio
MAXimum Bending Envelope					
Span # 1	1	12.082	0.83	7.07	0.12
D Only					
Span # 1	1	12.082	0.83	7.07	0.12

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - Saide Rec Center

Overall Maximum Deflections - Unfactored Loads

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
Span 1	1	0.1888	13.000	Span 1	-0.0214	6.500

Detailed Shear Information

Load Combination	Span Number	Distance (ft)	'd' (in)	Vu Actual	(k) Design	Mu (k-ft)	d*Vu/Mu	Phi*Vc (k)	Comment	Phi*Vs (k)	Spacing (in) Req'd	Spacing (in) Suggest
D Only	1	0.00	4.00	0.16	0.16	0.00	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.15	4.00	0.47	0.47	0.02	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.31	4.00	0.77	0.77	0.10	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.46	4.00	1.06	1.06	0.21	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.61	4.00	1.34	1.34	0.38	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.76	4.00	1.61	1.61	0.58	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.92	4.00	1.87	1.87	0.83	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	1.07	4.00	-3.98	3.98	0.68	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.22	4.00	-3.74	3.74	0.07	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.38	4.00	-3.51	3.51	0.50	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.53	4.00	-3.28	3.28	1.03	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.68	4.00	-3.07	3.07	1.54	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.84	4.00	-2.87	2.87	2.01	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.99	4.00	-2.67	2.67	2.45	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.14	4.00	-2.49	2.49	2.85	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.29	4.00	-2.31	2.31	3.23	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	2.45	4.00	-2.14	2.14	3.59	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.60	4.00	-1.98	1.98	3.92	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.75	4.00	-1.83	1.83	4.22	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.91	4.00	-1.69	1.69	4.50	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.06	4.00	-1.56	1.56	4.76	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.21	4.00	-1.43	1.43	5.00	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.36	4.00	-1.31	1.31	5.22	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.52	4.00	-1.20	1.20	5.42	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.67	4.00	-1.10	1.10	5.60	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.82	4.00	-1.00	1.00	5.77	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.98	4.00	-0.91	0.91	5.92	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.13	4.00	-0.82	0.82	6.06	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.28	4.00	-0.74	0.74	6.18	0.96	4.54	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.44	4.00	-0.67	0.67	6.30	0.85	4.44	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.59	4.00	-0.60	0.60	6.40	0.74	4.36	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.74	4.00	-0.53	0.53	6.49	0.65	4.28	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.89	4.00	-0.47	0.47	6.57	0.57	4.22	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.05	4.00	-0.41	0.41	6.64	0.49	4.15	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.20	4.00	-0.36	0.36	6.71	0.42	4.10	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.35	4.00	-0.30	0.30	6.76	0.36	4.04	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.51	4.00	-0.26	0.26	6.81	0.30	3.99	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.66	4.00	-0.21	0.21	6.85	0.25	3.95	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.81	4.00	-0.17	0.17	6.88	0.19	3.91	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.96	4.00	-0.12	0.12	6.90	0.14	3.86	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.12	4.00	-0.08	0.08	6.92	0.09	3.82	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.27	4.00	-0.04	0.04	6.93	0.05	3.78	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.42	4.00	-0.00	0.00	6.94	0.00	3.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.58	4.00	0.04	0.04	6.94	0.05	3.78	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.73	4.00	0.08	0.08	6.93	0.09	3.82	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.88	4.00	0.12	0.12	6.92	0.14	3.86	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.04	4.00	0.17	0.17	6.90	0.19	3.90	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.19	4.00	0.21	0.21	6.88	0.24	3.95	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.34	4.00	0.26	0.26	6.85	0.30	3.99	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.48	4.00	0.30	0.30	6.81	0.36	4.04	Vu < PhiVc/2	Not Reqd	0.00	0.00

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - Saide Rec Center

Detailed Shear Information

Load Combination	Span Number	Distance (ft)	'd' (in)	Vu Actual	(k) Design	Mu (k-ft)	d*Vu/Mu	Phi*Vc (k)	Comment	Phi*Vs (k)	Spacing (in) Req'd	Spacing (in) Suggest
D Only	1	7.65	4.00	0.36	0.36	6.76	0.42	4.09	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.80	4.00	0.41	0.41	6.71	0.49	4.15	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.95	4.00	0.47	0.47	6.64	0.56	4.21	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.11	4.00	0.53	0.53	6.57	0.64	4.28	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.26	4.00	0.60	0.60	6.49	0.73	4.35	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.41	4.00	0.67	0.67	6.40	0.83	4.43	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.56	4.00	0.74	0.74	6.30	0.94	4.52	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.72	4.00	0.82	0.82	6.18	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.87	4.00	0.91	0.91	6.06	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.02	4.00	1.00	1.00	5.92	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.18	4.00	1.10	1.10	5.77	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.33	4.00	1.20	1.20	5.60	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.48	4.00	1.31	1.31	5.42	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.64	4.00	1.43	1.43	5.22	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.79	4.00	1.56	1.56	5.00	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.94	4.00	1.69	1.69	4.76	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.09	4.00	1.83	1.83	4.50	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.25	4.00	1.98	1.98	4.22	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.40	4.00	2.14	2.14	3.92	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.55	4.00	2.31	2.31	3.59	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	10.71	4.00	2.49	2.49	3.23	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	10.86	4.00	2.67	2.67	2.85	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	11.01	4.00	2.87	2.87	2.45	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	11.16	4.00	3.07	3.07	2.01	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	11.32	4.00	3.28	3.28	1.54	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	11.47	4.00	3.51	3.51	1.03	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	11.62	4.00	3.74	3.74	0.50	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	11.78	4.00	3.98	3.98	0.07	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	11.93	4.00	4.24	4.24	0.68	1.00	4.57	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	12.08	4.00	-1.61	1.61	0.83	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.24	4.00	-1.34	1.34	0.58	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.39	4.00	-1.06	1.06	0.38	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.54	4.00	-0.77	0.77	0.21	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.69	4.00	-0.47	0.47	0.10	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.85	4.00	-0.16	0.16	0.02	1.00	4.57	Vu < PhiVc/2	Not Reqd	0.00	0.00

3. ANCHOR DESIGN

Company:	Kimley-Horn and Associates, Inc	Page:	1
Address:	111 East Broadway, 600	Specifier:	J.Goodsell
Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	Saide Rec Center	Date:	5/1/2020
Fastening point:			

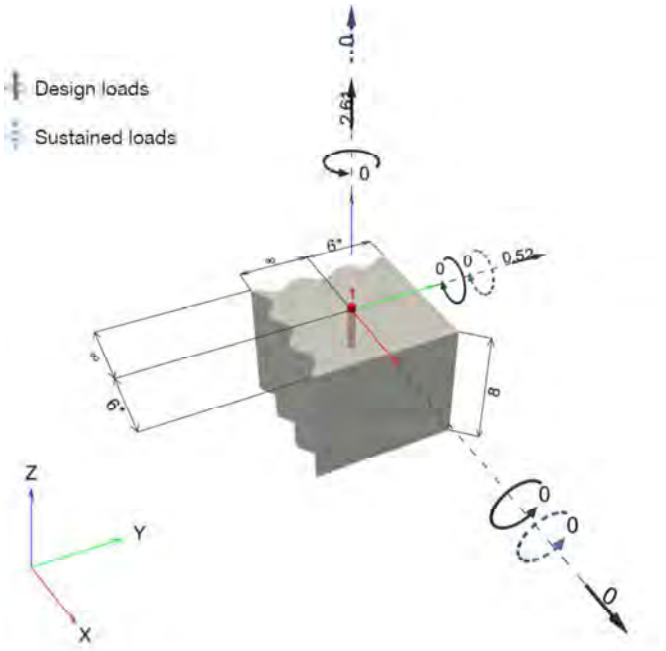
Specifier's comments:

1 Input data



Anchor type and diameter:	**HIT-HY 200 + Rebar A 615 Gr.40 #4**
Item number:	not available (element) / 2022793 HIT-HY 200-R (adhesive)
Effective embedment depth:	$h_{ef,opti}$ = 2.750 in. ($h_{ef,limit}$ = 6.750 in.)
Material:	ASTM A 615 GR.40
Evaluation Service Report:	ESR-3187
Issued I Valid:	4/1/2019 | 3/1/2020
Proof:	Design Method ACI 318-14 / Chem
Stand-off installation:	
Profile:	
Base material:	cracked concrete, 3000, f_c' = 3,000 psi; h = 8.000 in., Temp. short/long: 32/32 °F
Installation:	**hammer drilled hole, Installation condition: Dry**
Reinforcement:	tension: condition B, shear: condition B; no supplemental splitting reinforcement present edge reinforcement: none or < No. 4 bar

Geometry [in.] & Loading [kip, ft.kip]



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Design:	Saide Rec Center	Date:	5/1/2020
Fastening point:			

1.1 Design results

Case	Description	Forces [kip] / Moments [ft.kip]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = 2.610; V_x = 0.000; V_y = 0.520; M_x = 0.00000; M_y = 0.00000; M_z = 0.00000; N_{sus} = 0.000; $M_{x,sus}$ = 0.00000; $M_{y,sus}$ = 0.00000;	no	95

2 Load case/Resulting anchor forces

Anchor reactions [kip]
Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	2.610	0.520	0.000	0.520

max. concrete compressive strain: - [‰]
max. concrete compressive stress: - [psi]
resulting tension force in (x/y)=(0.000/0.000): 0.000 [kip]
resulting compression force in (x/y)=(0.000/0.000): 0.000 [kip]

3 Tension load

	Load N_{ua} [kip]	Capacity ϕN_n [kip]	Utilization $\beta_N = N_{ua}/\phi N_n$	Status
Steel Strength*	2.610	7.800	34	OK
Bond Strength**	2.610	3.088	85	OK
Sustained Tension Load Bond Strength*	N/A	N/A	N/A	N/A
Concrete Breakout Failure**	2.610	2.760	95	OK

* highest loaded anchor **anchor group (anchors in tension)

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Fastening point:			

3.1 Steel Strength

N_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi N_{sa} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,N}$ [in.^{2}]	f_{uta} [psi]
0.20	60,000

Calculations

N_{sa} [kip]
12.000

Results

N_{sa} [kip]	ϕ_{steel}	ϕN_{sa} [kip]	N_{ua} [kip]
12.000	0.650	7.800	2.610

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Fastening point:			

3.2 Bond Strength

$N_a = \left(\frac{A_{Na}}{A_{Na0}}\right) \psi_{ed,Na} \psi_{cp,Na} N_{ba}$ — ACI 318-14 Eq. (17.4.5.1a)

$\phi N_a \geq N_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Na} see ACI 318-14, Section 17.4.5.1, Fig. R 17.4.5.1(b)

$A_{Na0} = (2 c_{Na})^2$ — ACI 318-14 Eq. (17.4.5.1c)

$c_{Na} = 10 d_a \sqrt{\frac{\tau_{uncr}}{1100}}$ — ACI 318-14 Eq. (17.4.5.1d)

$\psi_{ed,Na} = 0.7 + 0.3 \left(\frac{c_{a,min}}{c_{Na}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.5.4b)

$\psi_{cp,Na} = \text{MAX}\left(\frac{c_{a,min}}{c_{ac}}, \frac{c_{Na}}{c_{ac}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.5.5b)

$N_{ba} = \lambda_a \cdot \tau_{k,c} \cdot \pi \cdot d_a \cdot h_{ef}$ — ACI 318-14 Eq. (17.4.5.2)

Variables

$\tau_{k,c,uncr}$ [psi]	d_a [in.]	h_{ef} [in.]	$c_{a,min}$ [in.]	$\alpha_{overhead}$	$\tau_{k,c}$ [psi]
1,589	0.500	2.750	6.000	1.000	1,100

c_{ac} [in.]	λ_a
4.136	1.000

Calculations

c_{Na} [in.]	A_{Na} [in.^{2}]	A_{Na0} [in.^{2}]	$\psi_{ed,Na}$
5.983	143.17	143.17	1.000

$\psi_{cp,Na}$	N_{ba} [kip]
1.000	4.751

Results

N_a [kip]	ϕ_{bond}	ϕN_a [kip]	N_{ua} [kip]
4.751	0.650	3.088	2.610

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Fastening point:			

3.3 Concrete Breakout Failure

$N_{cb} = \left(\frac{A_{Nc}}{A_{Nc0}}\right) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b$ — ACI 318-14 Eq. (17.4.2.1a)

$\phi N_{cb} \geq N_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$A_{Nc0} = 9 h_{ef}^2$ — ACI 318-14 Eq. (17.4.2.1c)

$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5h_{ef}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.2.5b)

$\psi_{cp,N} = MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.2.7b)

$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5}$ — ACI 318-14 Eq. (17.4.2.2a)

Variables

h_{ef} [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$	c_{ac} [in.]	k_c	λ_a	f'_c [psi]
2.750	6.000	1.000	4.136	17	1.000	3,000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
68.06	68.06	1.000	1.000	4.246

Results

N_{cb} [kip]	$\phi_{concrete}$	ϕN_{cb} [kip]	N_{ua} [kip]
4.246	0.650	2.760	2.610

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Fastening point:			

4 Shear load

	Load V_{ua} [kip]	Capacity ϕV_n [kip]	Utilization $\beta_V = V_{ua}/\phi V_n$	Status
Steel Strength*	0.520	4.320	13	OK
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength (Concrete Breakout Strength controls)**	0.520	5.945	9	OK
Concrete edge failure in direction y+**	0.520	2.773	19	OK

* highest loaded anchor **anchor group (relevant anchors)

4.1 Steel Strength

V_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi V_{steel} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,V}$ [in.^{2}]	f_{uta} [psi]
0.20	60,000

Calculations

V_{sa} [kip]
7.200

Results

V_{sa} [kip]	ϕ_{steel}	ϕV_{sa} [kip]	V_{ua} [kip]
7.200	0.600	4.320	0.520

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Fastening point:			

4.2 Pryout Strength (Concrete Breakout Strength controls)

$V_{cp} = k_{cp} \left[\left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b \right]$ ACI 318-14 Eq. (17.5.3.1a)

$\phi V_{cp} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$A_{Nc0} = 9 h_{ef}^2$ ACI 318-14 Eq. (17.4.2.1c)

$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}} \right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.5b)

$\psi_{cp,N} = MAX \left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}} \right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.7b)

$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5}$ ACI 318-14 Eq. (17.4.2.2a)

Variables

k_{cp}	h_{ef} [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$
2	2.750	6.000	1.000

c_{ac} [in.]	k_c	λ_a	f'_c [psi]
4.136	17	1.000	3,000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
68.06	68.06	1.000	1.000	4.246

Results

V_{cp} [kip]	$\phi_{concrete}$	ϕV_{cp} [kip]	V_{ua} [kip]
8.493	0.700	5.945	0.520

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4.3 Concrete edge failure in direction y+

$V_{cb} = \left(\frac{A_{Vc}}{A_{Vc0}}\right) \Psi_{ed,V} \Psi_{c,V} \Psi_{h,V} \Psi_{parallel,V} V_b$ — ACI 318-14 Eq. (17.5.2.1a)

$\phi V_{cb} \geq V_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Vc} see ACI 318-14, Section 17.5.2.1, Fig. R 17.5.2.1(b)

$A_{Vc0} = 4.5 c_{a1}^2$ — ACI 318-14 Eq. (17.5.2.1c)

$\Psi_{ed,V} = 0.7 + 0.3\left(\frac{c_{a2}}{1.5c_{a1}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.5.2.6b)

$\Psi_{h,V} = \sqrt{\frac{1.5c_{a1}}{h_a}} \geq 1.0$ — ACI 318-14 Eq. (17.5.2.8)

$V_b = \left(7\left(\frac{l_e}{d_a}\right)^{0.2}\sqrt{d_a}\right) \lambda_a \sqrt{f'_c}\, c_{a1}^{1.5}$ — ACI 318-14 Eq. (17.5.2.2a)

Variables

c_{a1} [in.]	c_{a2} [in.]	$\Psi_{c,V}$	h_a [in.]	l_e [in.]
6.000	6.000	1.000	8.000	2.750

λ_a	d_a [in.]	f'_c [psi]	$\Psi_{parallel,V}$
1.000	0.500	3,000	1.000

Calculations

A_{Vc} [in.^{2}]	A_{Vc0} [in.^{2}]	$\Psi_{ed,V}$	$\Psi_{h,V}$	V_b [kip]
120.00	162.00	0.900	1.061	5.603

Results

V_{cb} [kip]	$\phi_{concrete}$	ϕV_{cb} [kip]	V_{ua} [kip]
3.962	0.700	2.773	0.520

5 Combined tension and shear loads

β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status
0.946	0.187	1.000	95	OK

$\beta_{NV} = (\beta_N + \beta_V) / 1.2 <= 1$

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Fastening point:			

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (AS 5216:2018, ETAG 001/Annex C, EOTA TR029 etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered - the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with CBFEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- Design Strengths of adhesive anchor systems are influenced by the cleaning method. Refer to the INSTRUCTIONS FOR USE given in the Evaluation Service Report for cleaning and installation instructions.
- For additional information about ACI 318 strength design provisions, please go to https://submittals.us.hilti.com/PROFISAnchorDesignGuide/
- Installation of Hilti adhesive anchor systems shall be performed by personnel trained to install Hilti adhesive anchors. Reference ACI 318-14, Section 17.8.1.

Fastening meets the design criteria!

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Design:	Saide Rec Center	Date:	5/1/2020
Fastening point:			

7 Installation data

Profile: -

Hole diameter in the fixture: -

Plate thickness (input): -

Drilling method: Hammer drilled
Cleaning: Compressed air cleaning of the drilled hole according to instructions for use is required

#4 Rebar with Hilti HIT-HY 200 Safe Set System

Anchor type and diameter: HIT-HY 200 + Rebar A 615 Gr.40 #4
Item number: not available (element) / 2022793 HIT-HY 200-R (adhesive)

Installation torque: -

Hole diameter in the base material: 0.625 in.

Hole depth in the base material: 2.750 in.

Minimum thickness of the base material: 4.000 in.

7.1 Recommended accessories

Drilling	Cleaning	Setting
• Suitable Rotary Hammer • Properly sized drill bit	• Compressed air with required accessories to blow from the bottom of the hole • Proper diameter wire brush	• Dispenser including cassette and mixer • For deep installations, a piston plug is necessary • Torque wrench

Coordinates Anchor in.

Anchor	x	y	c_{-x}	c_{+x}	c_{-y}	c_{+y}
1	0.000	0.000	-	6.000	-	6.000

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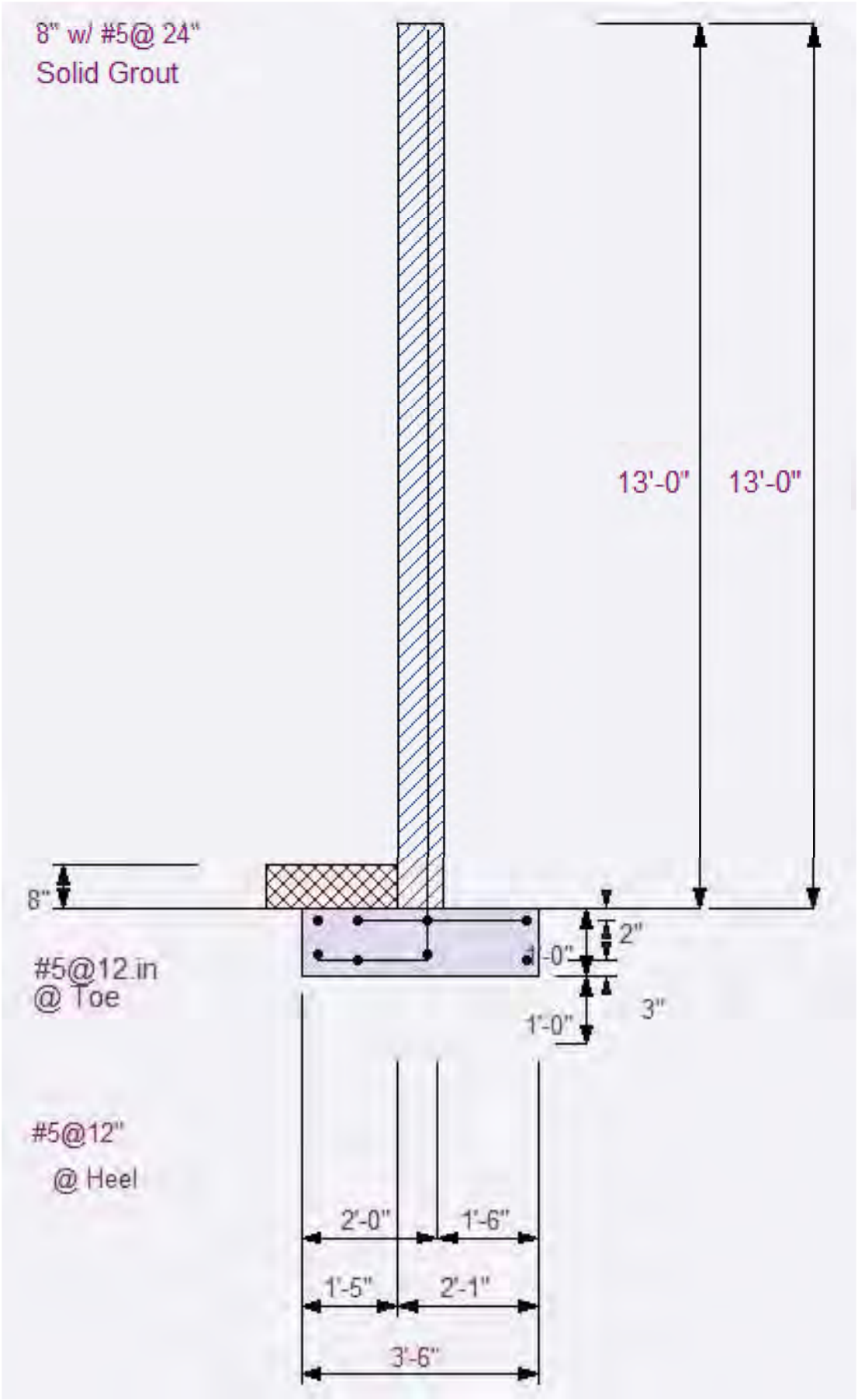
4. SCREEN WALL DESIGN


8" w/ #5@ 24"
Solid Grout
13'-0"
13'-0"
8"
2"
#5@12 in
@ Toe
1'-0"
3"
#5@12"
@ Heel
2'-0"
1'-6"
1'-5"
2'-1"
3'-6"

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Cantilevered Retaining Wall

Code: IBC 2018,ACI 318-14,TMS 402-16

Criteria



Retained Height	=	0.00 ft
Wall height above soil	=	13.00 ft
Slope Behind Wall	=	0.00
Height of Soil over Toe	=	8.00 in
Water height over heel	=	0.0 ft

Load Factors

Building Code	IBC 2018,ACI
Dead Load	1.200
Live Load	1.600
Earth, H	1.600
Wind, W	1.000
Seismic, E	1.000

Soil Data and Lateral Earth Pressure

Allow Soil Bearing	=	1,500.0 psf	Soil Density, Heel	=	100.00 pcf
Equivalent Fluid Pressure Method			Soil Density, Toe	=	0.00 pcf
Active Heel Pressure	=	45.0 psf/ft	Footing||Soil Friction	=	0.250
	=		Soil height to ignore for passive pressure	=	12.00 in
Passive Pressure	=	100.0 psf/ft			

Surcharge Loads

Surcharge Over Heel	=	0.0 psf	Surcharge Over Toe	=	0.0
Used To Resist Sliding & Overturning			Used for Sliding & Overturning		

Axial Load Applied to Stem

Axial Dead Load	=	0.0 lbs	Axial Load Eccentricity	=	0.0 in
Axial Live Load	=	0.0 lbs			

Lateral Load Applied to Stem

Lateral Load	=	0.0 #/ft
...Height to Top	=	0.00 ft
...Height to Bottom	=	0.00 ft
Load Type	=	Wind (W) (Service Level)

Wind on Exposed Stem

Wind on Exposed Stem (Service Level)	=	14.4 psf

Adjacent Footing Load

Adjacent Footing Load	=	0.0 lbs	Footing Type		Line Load
Footing Width	=	0.00 ft	Base Above/Below Soil		
Eccentricity	=	0.00 in	at Back of Wall	=	0.0 ft
Wall to Ftg CL Dist	=	0.00 ft	Poisson's Ratio	=	0.300

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Cantilevered Retaining Wall

Code: IBC 2018,ACI 318-14,TMS 402-16

Wall Design Summary

Stability Ratios

Overturning	=	2.01 OK
Sliding	=	3.39 OK

Soil Bearing

Total Bearing Load	=	1,617 lbs
...resultant ecc.	=	10.48 in
Soil Pressure @ Toe	=	1,229 psf OK
Soil Pressure @ Heel	=	0 psf OK
Allowable	=	1,500 psf
Soil Pressure Less Than Allowable		
ACI Factored @ Toe	=	1,720 psf
ACI Factored @ Heel	=	0 psf
Footing Shear @ Toe	=	11.5 psi OK
Footing Shear @ Heel	=	1.3 psi OK
Allowable	=	82.2 psi

Sliding

Resisting Forces

Vertical Forces	Force	
Soil Over Heel (above water table, if any)	0.0	lbs
Soil Over Heel (below water table, if any)	0.0	
Water Over Heel	0.0	
Buoyant Force	0.0	
Sloped Soil Over Heel	0.0	
Surcharge Over Heel	0.0	
Adjacent Footing Load	0.0	
Axial Dead Load on Stem	0.0	
Axial Live Load on Stem *	Omit	
Soil Over Toe	0.0	
Surcharge Over Toe	0.0	
Stem Weight(s)	1,092.0	
Earth @ Stem Transitions	0.0	
Footing Weight	525.2	
Key Weight	0.0	
Vert. Component **	0.0	
Total Vertical Loads	1,617.2	lbs

Sliding Forces

Lateral Forces	Force	
Heel Active Pressure (above water table, if any)	22.5	lbs
Heel Active Pressure (below water table, if any)	0.0	
Hydrostatic Force	0.0	
* Heel Active Pressure	22.5	
Surcharge over Heel	0.0	
Adjacent Footing	0.0	
Surcharge Over Toe	0.0	
Load @ Stem Above Soil	187.2	
Added Lateral Load	0.0	
Seismic Load	0.0	
Seismic-Self-weight	0.0	
Lateral on Key	0.0	
Totals =	209.7	lbs

*Includes water table effect

* Axial live load NOT included in total displayed , or used for overturning or sliding resistance, but is included for soil pressure calculations.

Sliding Calcs

Lateral Sliding Force	=		209.7 lbs	
less 100% Passive Force	=	-	305.6 lbs	
less 100% Friction Force	=	-	404.3 lbs	
Added Force Req'd	=		0.0 lbs	OK
....for 1.5 Stability	=		0.0 lbs	OK

Vertical component of active lateral soil pressure IS NOT considered in the calculation of soil bearing pressures.

Overturning

Resisting Moments

Resisting Moments	Force		Distance		Moment
Soil Over Heel (above water table, if any)	0.0	lbs	2.79	ft	0.0ft-#
Soil Over Heel (below water table, if any)	0.0				
Water Table	0.0				
Soil Over Heel	0.0		2.79		0.0
Sloped Soil Over Heel	0.0				
Surcharge Over Heel	0.0				
Adjacent Footing Load	0.0				
Axial Dead Load on Stem	0.0				
Axial Live Load on Stem *	0.0				
Soil Over Toe	0.0		0.71		
Surcharge Over Toe	0.0				
Stem Weight(s)	1,092.0		1.75		1,911.4
Earth @ Stem Transitions	0.0				
Footing Weight	525.2		1.75		919.3
Key Weight	0.0		2.00		
Vert. Component	0.0				
Total Vertical Loads	1,617.2	lbs			
Resisting Moment					**2,830.6** ft-#
Eccentricity					**10.5** in

* Axial live load NOT included in total displayed, or used for overturning or sliding resistance, but is included for soil pressure calculations.

Overturning

Overturning Moments

Overturning Moments	Force		Distance		Moment
Heel Active Pressure (above water table, if any)	22.5	lbs	0.33	ft	7.5 ft-#
Heel Active Pressure (below water table, if any)	0.0				
Hydrostatic Force	0.0				
Buoyant Force	0.0				
Surcharge over Heel	0.0				
Adjacent Footing	0.0				
Surcharge Over Toe	0.0				
Load @ Stem Above Soil	187.2		7.50		1,404.0
Added Lateral Load	0.0				
Seismic Load	0.0				
Seismic-Self-weight	0.0				
Totals =	209.7	lbs			
Overturning Moment					1,411.5 ft-#

Stem Design Summary

			Bottom
			Stem OK
Design Height Above Ftg	ft	=	0.00
Wall Material Above "Ht"		=	Masonry
Design Method		=	LRFD
Thickness		=	8.00
Rebar Size		=	# 5
Rebar Spacing		=	24.00
Rebar Placed at		=	Edge
Design Data			
fb/FB + fa/Fa		=	**0.356**
Total Force @ Section			
Service Level	lbs	=	
Strength Level	lbs	=	187.2
Moment....Actual			
Service Level	ft-#	=	
Strength Level	ft-#	=	1,216.8
Moment.....Allowable		=	3,411.6
Shear.....Actual			
Service Level	psi	=	
Strength Level	psi	=	2.0
Shear.....Allowable	psi	=	69.7
Anet	in2	=	91.50
Rebar Depth 'd'	in	=	5.25
Masonry Data			
f'm	psi	=	1,500
Fy	psi	=	60,000
Solid Grouting		=	Yes
Modular Ratio 'n'		=	21.48
Wall Weight	psf	=	84.0
Equiv. Solid Thick.	in	=	7.60
Masonry Block Type		=	Normal Weight
Masonry Design Method		=	LRFD
Concrete Data			
f'c	psi	=	
Fy	psi	=	

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Cantilevered Retaining Wall

Code: IBC 2018,ACI 318-14,TMS 402-16

Footing Data

Toe Width	=	1.42 ft	f'c	=	3,000	psi
Heel Width	=	2.08	Fy	=	60,000	psi
Total Footing Width	=	3.50 ft	Footing Concrete Density	=	150.00	pcf
Footing Thickness	=	12.00 in	Min. As %	=	0.0018	
Key Width	=	0.00 in	Rebar Cover @ Top	=	2.00	in
Key Depth	=	12.00 in	@ Bottom	=	3.00	in
Key Distance from Toe	=	2.00 ft				

Footing Design Results

		Toe	Heel	
Factored Pressure	=	1,720	0	psf
Mu' : Upward	=	17,003	216	ft-#
Mu' : Downward	=	3,869	2,680	ft-#
Mu: Design	=	327	-426	ft-#
Actual 1-Way Shear	=	11.46	1.31	psi
Allow 1-Way Shear	=	43.82	43.82	psi

Toe Reinforcing	=	# 5 @ 12.00 in
Heel Reinforcing	=	# 5 @ 12.00 in
Key Reinforcing	=	None Spec'd

Other Acceptable Sizes & Spacings

Toe: Not req'd: Mu < phi*5*lambda*sqrt(f'c)*Sm

Heel: Not req'd: Mu < phi*5*lambda*sqrt(f'c)*Sm

Key: No key defined

Min footing T&S reinf Area	0.91	in2
Min footing T&S reinf Area per fc	0.26	in2 /ft

If one layer of horizontal bars:	If two layers of horizontal bars:
#4@ 9.26 in	#4@ 18.52 in
#5@ 14.35 in	#5@ 28.70 in
#6@ 20.37 in	#6@ 40.74 in

Footing Torsion, Tu	=	0.00 ft-lbs
Footing Allow. Torsion, phi Tu	=	0.00 ft-lbs

If torsion exceeds allowable, provide supplemental design for footing torsion.

Tilt

Horizontal Deflection at Top of Wall due to settlement of soil

(Deflection due to wall bending not considered)

Soil Spring Reaction Modulus	250.0	pci
Horizontal Defl @ Top of Wall (approximate only)	0.127	in

The above calculation is not valid if the heel soil bearing pressure exceeds that of the toe.

because the wall would then tend to rotate into the retained soil.

5. APPENDIX

5.1 WIND LOADS

Hazards by Location

Search Information

Address: 1003 E Eason Ave, Buckeye, AZ 85326, USA

Coordinates: 33.3728425, -112.5758664

Elevation: 876 ft

Timestamp: 2020-03-12T15:55:38.233Z

Hazard Type: Wind



ASCE 7-16

MRI 10-Year	70 mph
MRI 25-Year	77 mph
MRI 50-Year	82 mph
MRI 100-Year	87 mph
Risk Category I	95 mph
Risk Category II	101 mph
Risk Category III	108 mph
Risk Category IV	112 mph

ASCE 7-10

MRI 10-Year	76 mph
MRI 25-Year	84 mph
MRI 50-Year	90 mph
MRI 100-Year	96 mph
Risk Category I	105 mph
Risk Category II	115 mph
Risk Category III-IV	120 mph

ASCE 7-05

ASCE 7-05 Wind Speed	90 mph

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area – in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher. NOTE: For queries near wind-borne debris region boundaries, the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne debris region.

Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.

While the information presented on this website is believed to be correct, ATC and its sponsors and contributors assume no responsibility or liability for its accuracy. The material presented in the report should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. ATC does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the report provided by this website. Users of the information from this website assume all liability arising from such use. Use of the output of this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for t

5.2 SEISMIC LOADS

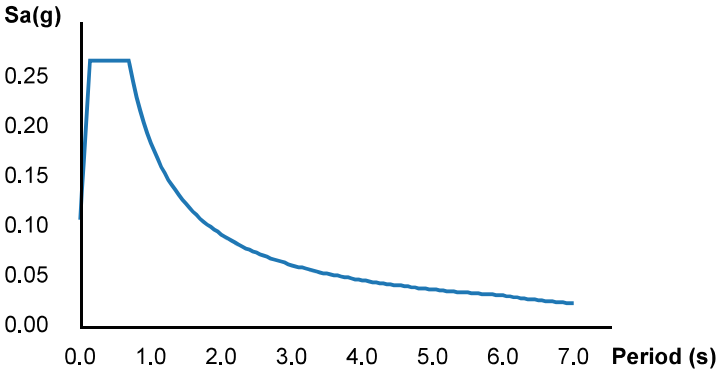
Hazards by Location

Search Information

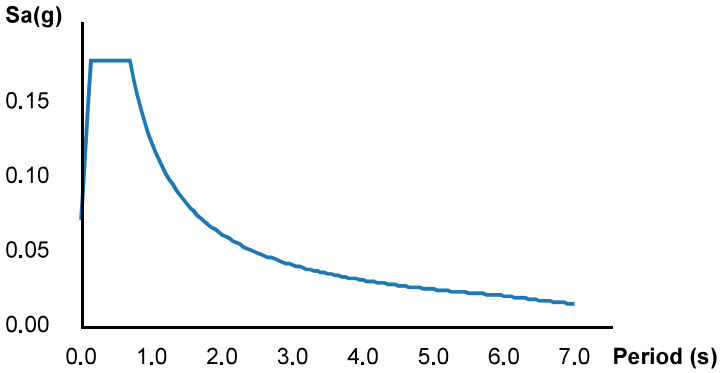
Address:	1003 E Eason Ave, Buckeye, AZ 85326, USA
Coordinates:	33.3728425, -112.5758664
Elevation:	876 ft
Timestamp:	2020-03-12T15:54:51.730Z
Hazard Type:	Seismic
Reference Document:	ASCE7-16
Risk Category:	II
Site Class:	D-default



MCER Horizontal Response Spectrum



Design Horizontal Response Spectrum



Basic Parameters

Name	Value	Description
S_S	0.167	MCE_R ground motion (period=0.2s)
S_1	0.077	MCE_R ground motion (period=1.0s)
S_{MS}	0.267	Site-modified spectral acceleration value
S_{M1}	0.184	Site-modified spectral acceleration value
S_{DS}	0.178	Numeric seismic design value at 0.2s SA
S_{D1}	0.123	Numeric seismic design value at 1.0s SA

Additional Information

Name	Value	Description
SDC	B	Seismic design category
F_a	1.6	Site amplification factor at 0.2s
F_v	2.4	Site amplification factor at 1.0s

CR_S	0.937	Coefficient of risk (0.2s)
CR_1	0.944	Coefficient of risk (1.0s)
PGA	0.073	MCE_G peak ground acceleration
F_{PGA}	1.6	Site amplification factor at PGA
PGA_M	0.117	Site modified peak ground acceleration
T_L	6	Long-period transition period (s)
SsRT	0.167	Probabilistic risk-targeted ground motion (0.2s)
SsUH	0.178	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.077	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.081	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGAd	0.5	Factored deterministic acceleration value (PGA)

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are provided by the U.S. Geological Survey Seismic Design Web Services.

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5.3 GENERATOR SPECIFICATIONS

SD175 | 6.7L | 175 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

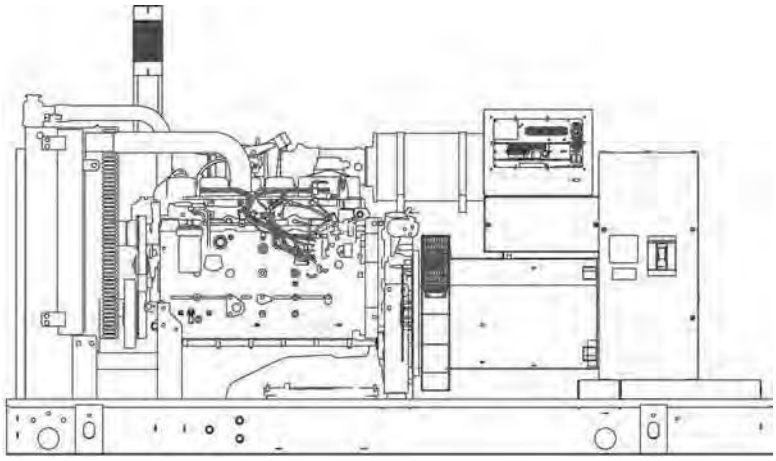
GENERAC | INDUSTRIAL POWER

STANDBY POWER RATING

175 kW, 219 kVA, 60 Hz

PRIME POWER RATING*

158 kW, 197 kVA, 60 Hz



*Built in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the U.S. or its Territories.

**Certain options or customization may not hold certification valid.

Image used for illustration purposes only

CODES AND STANDARDS

Generac products are designed to the following standards:

UL2200, UL508, UL142, UL498

NFPA70, 99, 110, 37

NEC700, 701, 702, 708

ISO9001, 8528, 3046, 7637, Pluses #2b, 4

NEMA ICS10, MG1, 250, ICS6, AB1

ANSI C62.41

POWERING AHEAD

For over 50 years, Generac has led the industry with innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SPEC SHEET

1 OF 6

SD175 | 6.7L | 175 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

STANDARD FEATURES

ENGINE SYSTEM

General

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel flexible exhaust connection
- Critical Exhaust Silencer (enclosed only)
- Factory Filled Oil
- Radiator Duct Adapter (open set only)

Fuel System

- Fuel lockoff solenoid
- Primary fuel filter

Cooling System

- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene glycol antifreeze
- 120 VAC Coolant Heater

Engine Electrical System

- Battery charging alternator
- Battery cables
- Battery tray
- Solenoid activated starter motor
- Rubber-booted engine electrical connections

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- 12 leads (3-phase, non 600 V)
- Class H insulation material
- Vented rotor
- 2/3 pitch
- Skewed stator
- Auxiliary voltage regulator power winding
- Amortisseur winding
- Brushless Excitation
- Sealed Bearings
- Automated manufacturing (winding, insertion, lacing, varnishing)
- Rotor dynamically spin balanced
- Full load capacity alternator
- Protective thermal switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of circuits - high/low voltage
- Separation of circuits - multiple breakers
- Silencer Heat Shield
- Wrapped Exhaust Piping
- Silencer housed in discharge hood (enclosed only)
- Standard Factory Testing
- 2 Year Limited Warranty (Standby rated Units)
- 1 Year Limited Warranty (Prime rated Units)
- Silencer mounted in the discharge hood (enclosed only)

ENCLOSURE (IF SELECTED)

- Rust-proof fasteners with nylon washers to protect finish
- High performance sound-absorbing material
- Gasketed doors
- Stamped air-intake louvers
- Air discharge hoods for radiator-upward pointing
- Stainless steel lift off door hinges
- Stainless steel lockable handles
- Rhino Coat™- Textured polyester powder coat

TANKS (IF SELECTED)

- UL 142
- Double wall
- Vents
- Sloped top
- Sloped bottom
- Factory pressure tested (2 psi)
- Rupture basin alarm
- Fuel level
- Check valve in supply and return lines
- Rhino Coat™- Textured polyester powder coat
- Stainless hardware

CONTROL SYSTEM



Control Panel

- Digital H Control Panel - Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485
- All-Phase Sensing DVR
- Full System Status
- Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- Power Output (kW)
- Power Factor
- kW Hours, Total & Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance algorithm
- Sealed Boards
- Password parameter adjustment protection
- Single point ground
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

Alarms

- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)

SD175 | 6.7L | 175 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

CONFIGURABLE OPTIONS

ENGINE SYSTEM

General

- O Oil Heater
- O Industrial Exhaust Silencer

Fuel System

- O Flexible fuel lines
- O Primary fuel filter

Engine Electrical System

- O 10A UL battery charger
- O 2.5A UL battery charger
- O Battery Warmer

ALTERNATOR SYSTEM

- O Alternator Upsizing
- O Anti-Condensation Heater
- O Tropical coating
- O Permanent Magnet Excitation

CIRCUIT BREAKER OPTIONS

- O Main Line Circuit Breaker
- O 2nd Main Line Circuit Breaker
- O Shunt Trip and Auxiliary Contact
- O Electronic Trip Breaker

GENERATOR SET

- O Gen-Link Communications Software (English Only)
- O IBC Seismic Certification
- O 8 Position Load Center
- O 2 Year Extended Warranty
- O 5 Year Warranty
- O 5 Year Extended Warranty

ENCLOSURE

- O Weather Protected
- O Level 1 Sound Attenuation
- O Level 2 Sound Attenuation
- O Steel Enclosure
- O Aluminum Enclosure
- O 150 MPH Wind Kit
- O 12 VDC Enclosure Lighting Kit
- O 120 VAC Enclosure Lighting Kit
- O AC/DC Enclosure Lighting Kit
- O Door Alarm Switch

TANKS (Size on last page)

- O Electrical Fuel Level
- O Mechanical Fuel Level
- O 8” Fill Extension
- O 13” Fill Extension

CONTROL SYSTEM

- O 21-Light Remote Annunciator
- O Remote Relay Panel (8 or 16)
- O Oil Temperature Sender with Indication Alarm
- O Remote E-Stop (Break Glass-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Surface Mount)
- O Remote E-Stop (Red Mushroom-Type, Flush Mount)
- O Remote Communication - Modem
- O Remote Communication - Ethernet
- O 10A Run Relay
- O Ground Fault Indication and Protection Functions

ENGINEERED OPTIONS

ENGINE SYSTEM

- O Coolant heater ball valves
- O Block Heaters
- O Fluid containment pans

ALTERNATOR SYSTEM

- O 3rd Breaker Systems

CONTROL SYSTEM

- O Spare inputs (x4) / outputs (x4) - H Panel Only
- O Battery Disconnect Switch

GENERATOR SET

- O Special Testing

ENCLOSURE

- O Motorized Dampers
- O Door switched for intrusion alert
- O Enclosure ambient heaters

TANKS

- O Overfill Protection Valve
- O UL2085 Tank
- O ULC S-601 Tank
- O Stainless Steel Tank
- O Special Fuel Tanks (MIDEQ and FL DEP/DERM, etc.)
- O Vent Extensions

RATING DEFINITIONS

Standby - Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

Prime - Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications. Power ratings in accordance with ISO 8528-1, Second Edition

SD175 | 6.7L | 175 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Generac
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emissions Data Sheet
Cylinder #	6
Type	In-Line
Displacement - L (cu In)	6.7 (406.86)
Bore - mm (in)	104 (4.09)
Stroke - mm (in)	128 (5.2)
Compression Ratio	16.5:1
Intake Air Method	Turbocharged/Aftercooled
Cylinder Head Type	4 Valve
Piston Type	Alloy Aluminum
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	+/- 0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow Cartridge
Crankcase Capacity - L (qts)	19.6 (20.7)

Cooling System

Cooling System Type	Closed Recovery
Water Pump	Belt Driven Centrifugal
Fan Type	Pusher
Fan Speed (rpm)	2538
Fan Diameter mm (in)	-
Coolant Heater Wattage	1500
Coolant Heater Standard Voltage	120 V /240 V

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specifications	ASTM
Fuel Filtering (microns)	5
Fuel Injection	Electronic
Fuel Pump Type	Engine Driven Gear
Injector Type	Electronic
Fuel Supply Line mm (in)	12.7 (0.5) NPT
Fuel Return Line mm (in)	12.7 (0.5) NPT

Engine Electrical System

System Voltage	12 VDC
Battery Charging Alternator	Std
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	520
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5%
Telephone Interference Factor (TIF)	<50
Standard Excitation	Permanent Magnet
Bearings	Single Seated Cartridge
Coupling	Direct, Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	3
Regulation Accuracy (Steady State)	±0.25%

SD175 | 6.7L | 175 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

OPERATING DATA

POWER RATINGS

		Standby	
Single-Phase 120/240 VAC @1.0pf	175 kW	Amps:	729
Three-Phase 120/208 VAC @0.8pf	175 kW	Amps:	607
Three-Phase 120/240 VAC @0.8pf	175 kW	Amps:	526
Three-Phase 277/480 VAC @0.8pf	175 kW	Amps:	263
Three-Phase 346/600 VAC @0.8pf	175 kW	Amps:	210

STARTING CAPABILITIES (sKVA)

		sKVA vs. Voltage Dip											
		480 VAC						208/240 VAC					
Alternator	kW	10%	15%	20%	25%	30%	35%	10%	15%	20%	25%	30%	35%
Standard	200	187	280	373	467	560	653	140	210	280	350	420	490
Upsize 1	250	263	395	527	658	790	922	197	296	395	494	593	692
Upsize 2	300	303	454	605	757	908	1059	227	341	454	568	681	794

FUEL CONSUMPTION RATES*

Fuel Pump Lift - ft (m)
3 (1)
Total Fuel Pump Flow (Combustion + Return)
29.0 gal/hr

	Diesel - gal/hr (l/hr)
Percent Load	Standby
25%	3.9 (14.8)
50%	7.3 (27.6)
75%	10.5 (39.7)
100%	13.5 (51.1)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Coolant Flow per Minute	gal/min (l/min)	44.6 (168.8)
Coolant System Capacity	gal (L)	7.5 (28.4)
Heat Rejection to Coolant	BTU/hr	497,718
Inlet Air	cfm (m^3/hr)	7946 (13502)
Max. Operating Radiator Air Temp	F° (C°)	122 (50)
Max. Ambient Temperature (before derate)	F° (C°)	104 (40)
Maximum Radiator Backpressure	in H_2O	0.5

COMBUSTION AIR REQUIREMENTS

		Standby
Flow at Rated Power	cfm (m^3/min)	470 (13.31)

ENGINE

		Standby
Rated Engine Speed	rpm	1800
Horsepower at Rated kW**	hp	279
Piston Speed	ft/min (m/min)	1559 (475)
BMEP	psi	257

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

EXHAUST

		Standby
Exhaust Flow (Rated Output)	cfm (m^3/min)	1326 (37.55)
Max. Backpressure (Post Silencer)	inHg (Kpa)	1.5 (5.1)
Exhaust Temp (Rated Output)	°F (°C)	1040 (560)
Exhaust Outlet Size (Open Set)	mm (in)	101.6 (4)

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please consult a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standard.

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

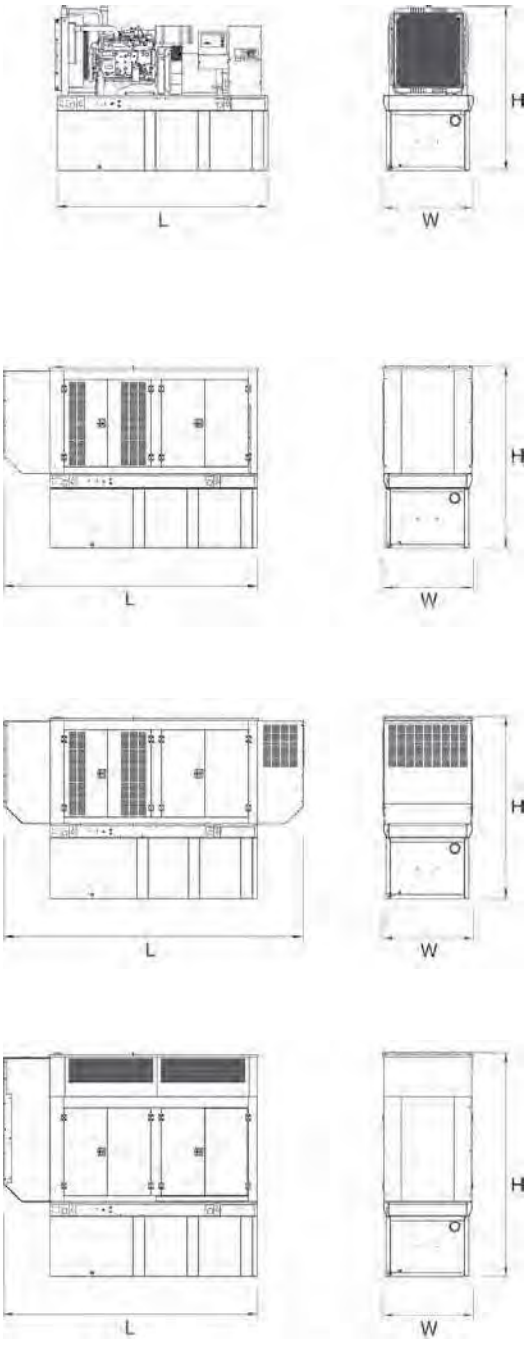
SD175 | 6.7L | 175 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

DIMENSIONS AND WEIGHTS*



OPEN SET

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Tank & Open Set
NO TANK		117 (2972) x 50 (1270) x 57 (1448)	3980 (1805)
10	134 (507)	117 (2972) x 50 (1270) x 71 (1803)	4764 (2161)
24	322 (1219)	117 (2972) x 50 (1270) x 82 (2083)	5052 (2292)
38	510 (1930.6)	117 (2972) x 50 (1270) x 94 (2388)	5345 (2424)
51	693 (2623.3)	136 (3454) x 53 (1346) x 98 (2489)	5575 (2530)
70	946 (3581)	208 (5283) x 53 (1346) x 98 (2489)	7005 (3117)
98	1325 (5015.7)	278 (7061) x 53 (1346) x 96 (2438)	8020 (3638)

STANDARD ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only	
			Steel	Aluminum
NO TANK	-	143 (3632) x 50 (1270) x 68 (1727)		
10	134 (507)	143 (3632) x 50 (1270) x 81 (2057)		
24	322 (1219)	143 (3632) x 50 (1270) x 93 (2362)		
38	510 (1930.6)	143 (3632) x 50 (1270) x 105 (2667)	850 (386)	280 (127)
51	693 (2623.3)	143 (3632) x 53 (1346) x 109 (2769)		
70	946 (3581)	208 (5283) x 53 (1346) x 109 (2769)		
98	1325 (5015.7)	278 (7061) x 53 (1346) x 107 (2718)		

LEVEL 1 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only	
			Steel	Aluminum
NO TANK	-	168 (4267) x 50 (1270) x 68 (1727)		
10	134 (507)	168 (4267) x 50 (1270) x 81 (2057)		
24	322 (1219)	168 (4267) x 50 (1270) x 93 (2362)		
38	510 (1930.6)	168 (4267) x 50 (1270) x 105 (2667)	1050 (476)	347 (157)
51	693 (2623.3)	168 (4267) x 53 (1346) x 109 (2769)		
70	946 (3581)	234 (5944) x 53 (1346) x 109 (2769)		
98	1325 (5015.7)	304 (7722) x 53 (1346) x 107 (2718)		

LEVEL 2 ACOUSTIC ENCLOSURE

RUN TIME HOURS	USABLE CAPACITY GAL (L)	L x W x H in (mm)	WT lbs (kg) - Enclosure Only	
			Steel	Aluminum
NO TANK	-	143 (3632) x 50 (1270) x 92 (2337)		
10	134 (507)	143 (3632) x 50 (1270) x 105 (2667)		
24	322 (1219)	143 (3632) x 50 (1270) x 117 (2972)		
38	510 (1930.6)	143 (3632) x 50 (1270) x 129 (3278)	1250 (567)	413 (187)
51	693 (2623.3)	143 (3632) x 53 (1346) x 133 (3378)		
70	946 (3581)	208 (5283) x 53 (1346) x 133 (3378)		
98	1325 (5015.7)	278 (7061) x 53 (1346) x 131 (3327)		

*All measurements are approximate and for estimation purposes only. Sound dBA can be found on the sound data sheet. Enclosure Only weight is added to Tank & Open Set weight to determine total weight.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

(5575 lb set and tank) + (Diesel weight 7 lbs/gallon x 693 gallons) + (1250lbs enclosure weight) = **11676 LBs total**

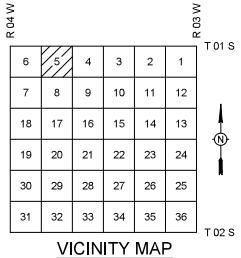
Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

Emergency Backup Generators Citywide
Contract No. 2021030
LightDay Solar, Inc.
© 2015 Generac Power Systems, Inc. All rights reserved. All specifications are subject to change without notice.

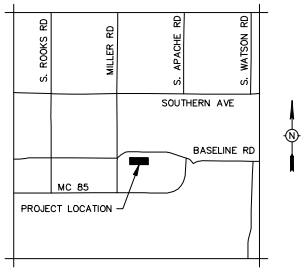
FLEET MANAGEMENT STANDBY GENERATOR

415 E. ARIZONA EASTERN BUCKEYE, ARIZONA 85326

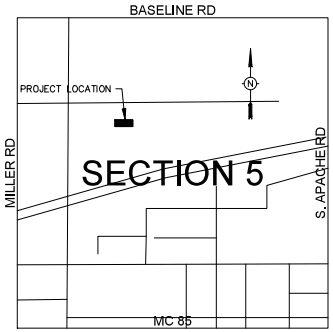
A PORTION OF THE NWNW OF SECTION 5, TOWNSHIP T01S, RANGE R03W OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



OVERALL DEVELOPMENT
NOT TO SCALE

FEMA FLOOD ZONE INFORMATION

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEV. (IN AO ZONE, USE DEPTH)
ALL FLOOD ZONES ARE SHOWN IN THIS PLAN SET.					

GENERAL PERMITTING NOTES

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF BUCKEYE DESIGN STANDARDS. IF THERE IS A CONFLICT, THE CITY OF BUCKEYE STANDARDS WILL GOVERN.
2. THE APPROVAL OF THE PLANS IS VALID FOR ONE (1) YEAR FROM THE DATE OF THE CITY ENGINEER'S SIGNATURE. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN ONE (1) YEAR, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
3. A CITY OF BUCKEYE INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF BUCKEYE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY THE CITY 24 HOURS PRIOR TO THE INSPECTION BY CALLING (623) 349-6248.
4. CITY PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. A CITY PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER ALL FEES HAVE BEEN PAID AND THE PERMIT HAS AN APPROVED MARICOPA COUNTY ENVIRONMENTAL SERVICES DUST PERMIT AND AN APPROVED STORM WATER POLLUTION PREVENTION PLAN ATTACHED. THE SWPPP SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
5. COPIES OF ALL PERMITS AND MOST RECENT APPROVED PLANS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS AND PLANS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL PROPER PERMIT DOCUMENTATION AND/OR PLANS ARE OBTAINED. ALL OF THESE REQUIREMENTS APPLY TO ONSITE GRADING AND IMPROVEMENT PLANS.

SUMMARY OF BUILDING CODES

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL RESIDENTIAL CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE

ENGINEER

KIMLEY-HORN AND ASSOCIATES, INC.
MICHAEL COLOMBO
7740 N. 16TH STREET
SUITE 300 PHOENIX, AZ 85020
602-944-5500
MICHAEL.COLOMBO@KIMLEY-HORN.COM

SHEET INDEX

SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	ELECTRICAL GENERAL NOTES
3	ELECTRICAL SITE PLAN
4	ELECTRICAL ONE LINE DIAGRAM
5	ELECTRICAL DETAILS
6	STRUCTURAL NOTES AND PLAN
7	STRUCTURAL DETAILS

APPROVAL

DISCLAIMER:

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS AND OMISSIONS.

BY: _____
CITY OF BUCKEYE ENGINEER DATE

BY: _____
FLOOD CONTROL DISTRICT MARICOPA COUNTY DATE

BY: _____
MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION DATE

BY: _____
MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT DATE

BY: _____
PRIVATE WATER DATE

BY: _____
PRIVATE SEWER DATE

BY: _____
ROOSEVELT IRRIGATION DISTRICT (RID) DATE

BY: _____
BUCKEYE WATER CONSERVATION & DRAINAGE DISTRICT DATE

(OTHER SIGNATURE LINES AS REQUIRED)

MANAGING ENGINEERING / SURVEYOR
PROJECT COORDINATOR
DESIGN LAYOUT: EG | DRAFTED: JN | CHECKED: MAC
FIELD SURVEY | DRAFTED | CHECKED
DRAWING SCALES

PLAN TYPE: ELECTRICAL PLANS

ENGINEER INFORMATION: Kimley»Horn

PROJECT: FLEET MANAGEMENT STANDBY GENERATOR

COB PROJECT PLAN STICKER

REVISIONS:
1
2
3

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

SUBMITTAL: FINAL

AS-BUILT SEAL

DESIGN SEAL

Registered Professional Engineer
CERTIFICATE NO. 30360
Michael K. Colombo
Date Signed 07/07/20
ARIZONA, USA

Expires 12/31/21

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	1 of 7

COB PLAN TRACKING #
COB PERMIT #

CITY OF BUCKEYE GENERAL CONSTRUCTION NOTES

1. CITY OF BUCKEYE BUILDING DEPARTMENT SHALL; HE NOTIFIED 24 HOURS IN ADVANCE OF ANY ON-SITE OR OFF SITE CONSTRUCTION. PHONE 623-349-6248 FOR THE HOTLINE. ALL OTHERS FAX THE INSPECTION REQUEST FORM TO 623-349-6221, OR USE THE WEB BASED PERMIT PORTHOLE ACCESS TO SCHEDULE AN INSPECTION (WWW_BUCKEYEAZ.GOV).
2. ALL WORK AND MATERIALS MUST CONFORM WITH THESE SPECIFICATIONS, THE CURRENT UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS SPONSORED AND DISTRIBUTED BY THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) AND AS AMENDED BY THE CITY OF BUCKEYE (COB).
3. A PERMIT IS REQUIRED FROM THE COB FOR ALL CONSTRUCTION WITHIN THE RIGHTS-OF-WAY (ROW).
4. THE CONTRACTOR WILL EXPOSE ALL EXISTING UTILITY LINES BEING TIED IN TO VERIFY THEIR LOCATION.
5. THE CONTRACTOR WILL LOCATE, OR HAVE LOCATED, ALL EXISTING UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE, PIPELINE, ETC.) AND STRUCTURES IN ADVANCE OF CONSTRUCTION AND WILL ELIMINATE ALL CONFLICTS PRIOR TO START OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE TO CALL BLUE STAKE PRIOR TO STARTING ANY CONSTRUCTION. NO WORK SHALL BEGIN UNTIL BLUE STAKE IS COMPLETED. BLUE STAKE TELEPHONE NUMBER 602-263-1 100 OR 1-800-STAKE-IT.
7. A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO STARTING ANY WORK OR NEW PHASE OF WORK. THE CONTRACTOR, KEY SUB-CONTRACTORS, COB INSPECTOR AND REPRESENTATIVE OF THE CITY ENGINEER SHALL ATTEND THIS MEETING.
8. ANY WORK PERFORMED WITHOUT THE APPROVAL OF THE COB AND/OR ALL WORK AND MATERIAL NOT IN CONFORMANCE WITH THE SPECIFICATIONS IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
9. DISPOSAL OF EXCESS MATERIAL WITHOUT A PERMIT WITHIN THE COB LIMITS IS PROHIBITED. A USE PERMIT IS REQUIRED FOR DISPOSAL OR STOCKPILING OF MATERIALS WITHIN A RESIDENTIAL AREA. STOCKPILING OF EXCAVATED MATERIAL SHALL NOT EXCEED A HEIGHT OF 6 FEET ABOVE THE NATURAL GROUND ELEVATION. THE SLOPES ON ALL SIDES OF THE STOCKPILED EXCAVATED MATERIAL SHALL NOT EXCEED A 4: 1 RATIO OF LENGTH TO HEIGHT.
10. EXCAVATION CONTRACTORS MUST IDENTIFY LOCATION FOR DISPOSING OF EXCESS EXCAVATION MATERIAL ALONG WITH A LETTER FROM THE LAND OWNER, GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ANY CONSTRUCTION.
11. TRAFFIC CONTROL SHALL BE PROVIDED AND MAINTAINED IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF PHOENIX BARRICADING MANUAL, MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION, M.A.G. UNIFORM STANDARD DETAIL 401, AND COB REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND BARRICADE PLAN TO THE COB FOR APPROVAL WHERE THE CONSTRUCTION OF THE NEW IMPROVEMENTS ARE ADJACENT TO OR CONNECTING TO ANY EXISTING ROADWAY OR PEDESTRIAN FACILITIES. THE TRAFFIC CONTROL PLAN AND BARRICADE PLAN SHALL BE APPROVED BEFORE A PERMIT FOR THE WORK WILL BC ISSUED. THE CONTRACTOR SHALL INSTALL APPROVED BARRICADING AND TRAFFIC CONTROL, AS APPROVED BY THE COB, BEFORE WORK CAN TAKE PLACE. ALL OVERNIGHT BARRICADES SHALL BE LIT AND FUNCTIONING.
12. A HAUL PLAN FOR MATERIAL IMPORT OR EXPORT SHALL BE REQUIRED FOR COB REVIEW AND APPROVAL PRIOR TO THE START OF HAULING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC. THIS WORK INCLUDES STREET SWEEPING, POWER BROOM AND WATER AS NEEDED OR DIRECTED BY THE COB.
13. ENVIRONMENTAL REQUIREMENTS
    A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL RELATED TO THE PROJECT CONSTRUCTION AND SHALL TAKE WHATEVER MEANS NECESSARY TO CONTROL ANY ABNORMAL CONDITIONS.
    B. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS FOR CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADS ARE MAINTAINED IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
    C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY AND FINAL CLEAN-UP OPERATIONS OF ADJACENT, EXISTING PAVED STREETS USED BY CONSTRUCTION TRAFFIC.
    D. TEMPORARY DRAINAGE CONTROL MEASURES MAY BE REQUIRED DURING AND AFTER CONSTRUCTION UNTIL FINAL PROJECT BUILD-OUT IN ACCORDANCE WITH THE APPROVED PLANS AND IN ACCORDANCE WITH ANY ESTABLISHED OR REQUIRED BEST MANAGEMENT PRACTICES (BMP) AS PART OF THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEET ALL REQUIREMENTS.
    E. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL AIR QUALITY PERMITS.
    F. THE CONTRACTOR SHALL SUBMIT TO THE COB A COPY OF THEIR APPROVED COUNTY (AIR QUALITY) DUST CONTROL PLAN, EROSION CONTROL PLAN (SWPPP), AND PERMIT PRIOR TO THE START OF WORK.
14. STREET CUTS: APPLICATIONS FOR STREET CUT PERMITS MUST BE APPROVED BY THE CITY ENGINEER PRIOR TO APPROVAL OF IMPROVEMENT PLANS. THE PAVEMENT REPLACEMENT SECTION FOR ALL LONGITUDINAL AND TRANSVERSE TRENCHES LOCATED IN AN EXISTING PAVED STREET SHALL BE CONSTRUCTED IN ACCORDANCE M.A.G. UNIFORM STANDARD DETAIL NO. 200 "T"-TOP, BACKFILL, PAVEMENT SURFACE REPLACEMENT, MODIFIED AS FOLLOWS: THE WIDTH OF THE REPLACED PAVEMENT SECTION EXTEND 1 FOOT BEYOND THE TRENCH SIDE EDGE LINE, ON EITHER SIDE OF THE TRENCH. THE DEPTH OF THE PERMANENT SURFACE REPLACEMENT SHALL BE A MINIMUM OF 3 INCHES OR MATCH THE EXISTING THICKNESS OF THE PAVEMENT, WHICHEVER IS GREATER. SAWCUT OR CONSTRUCTION JOINTS SHALL BE ADEQUATELY TACK OILED WITH A MINIMUM OF 95% COVERAGE. ASPHALT MATERIAL SHALL BE A COB APPROVED MIX DESIGN WITH COMPACTED LIFTS NO GREATER THAN 3 INCHES. SLURRY BACKFILLED OR OPEN TRENCHES IN EXISTING ROADWAYS MUST BE PROPERLY STEEL PLATED AND BARRICADED OVER NIGHT. STEEL PLATES TO BE MILLED FLUSH WITH ROADWAY SURFACE PER NOTE 24. "COLD MIX" TEMPORARY ASPHALT PATCHES MUST BE REPLACED AS SOON AS POSSIBLE AND CANNOT REMAIN FOR MORE THAN 5 DAYS TIME OR AS REQUIRED BY THE COB. DURING THE 5 DAY PERIOD THE CONTRACTOR IS REQUIRED TO MAINTAIN THE PATCH TO WITHIN MAG STD SPEC 321.5.3. ASPHALT IN PLACE FOR LESS THAN 5 YEARS SHALL BE MILLED AND OVERLAYED A MINIMUM OF 20 FEET PAST TRENCH WALLS, AND IN THE CASE OF MULTIPLE STREET CUTS, THE CONTINUOUS MILL AND OVERLAY SHALL EXTEND A MINIMUM OF 20-FEET PAST END OF THE FURTHEST TRENCH WALLS.
15. POTHOLING: NO POTHOLING SHALL BE DONE ON ANY STREET NEWER THAN 2 YEARS OLD. ALL POTHOLING IN EXISTING STREETS SHALL BE DONE USING WATER/AIR/VACUUM TYPE METHOD. POTHOLE SIZE SHALL BE LIMITED TO A 12 INCH BY 12 INCH SQUARE HOLE. REMOVAL MATERIAL CANNOT BE USED FOR BACK FILL. THE CONTRACTOR SHALL USE SLURRY PER MAG SEC. 728. PAVEMENT REPLACEMENT SHALL BE BY APPROVED HOT MIX ASPHALT ONLY. A 3 FOOT BY 3 FOOT PAVEMENT SLURRY SEAL SHALL BE APPLIED AFTER THE ASPHALT IS PLACED.
16. AN APPROVED, UP-TO-DATE SET OF PLANS AND A RIGHT-OF-WAY PERMIT SHALL BE MAINTAINED ON THE JOB SITE AT ALL TIMES WHILE WORK IS IN PROGRESS. IF THE PLANS AND PERMITS ARE NOT ON SITE, THE WORK SHALL BE STOPPED UNTIL THE APPROVED PLANS ARE PROVIDED. DEVIATION FROM THE PLANS SHALL NOT BE ALLOWED WITHOUT THE COB'S APPROVAL.
17. DAMAGE TO ANY AND ALL ITEMS CAUSED BY CONSTRUCTION OR CONSTRUCTION RELATED WORK SHALL BE REPLACED OR REPAIRED TO THE SAME OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
18. ALL PARCEL CONSTRUCTION ACCESS LOCATIONS ARE SUBJECT TO THE CITY ENGINEER'S APPROVAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER AND ADEQUATE ACCESS ROADS INSIDE AND THROUGHOUT THE PARCEL ALLOWING FOR INSPECTION ACCESSIBILITY. THIS INCLUDES GRADING, GRAVEL FILL AND/OR TRENCH PLATES AS REQUIRED.
19. THE CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COB AND THE COB CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE COB.
20. THE COB SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES UTILIZED IN CONNECTION WITH THE WORK. THE COB WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS COMPLYING WITH MAG OR COB REQUIREMENTS.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING CERTIFIED AS-BUILT RECORD DOCUMENTS TO THE COB FOR REVIEW AND APPROVAL. NO FINAL ACCEPTANCE SHALL BE ISSUED UNTIL "AS-BUILT" PLANS CERTIFIED BY THE PROJECT ENGINEER/LAND SURVEYOR HAVE BEEN SUBMITTED AND ACCEPTED BY THE COB. FINAL CONSTRUCTION ACCEPTANCE OR THE RELEASE OF CERTIFICATE OF OCCUPANCIES SHALL NOT BE ISSUED UNTIL ALL AS-BUILT DRAWINGS AND OTHER REQUIRED DOCUMENTS PER THE COB'S FINAL PROJECT SUBMITTAL CHECKLIST, HAVE BEEN REVIEWED AND APPROVED BY THE CITY ENGINEER.
22. ARRANGEMENTS FOR CONSTRUCTION WATER CAN BE MADE BY CALLING THE WATER RESOURCE DEPARTMENT AT (623) 349-6800.
23. THE COB IS NOT RESPONSIBLE FOR LIABILITY ACCRUED DUE TO DELAYS AND/OR DAMAGES TO UTILITIES IN CONJUNCTION WITH THIS CONSTRUCTION. ALSO, THE CITY WILL NOT PARTICIPATE IN THE COST OF CONSTRUCTION OR RELOCATION OF UTILITIES.
24. ALL CONTRACTORS SHALL CONTRACT FOR TRASH PICKUP THROUGH A LICENSED CITY OF BUCKEYE SOLID WASTE HAULER (602-237-2078) AND DISPOSED OF AT THE SOUTHWEST REGIONAL LANDFILL IN BUCKEYE.
25. OPEN TRENCHES ACROSS DRIVEWAYS, STREETS AND CROSS-STREETS SHALL BE PLATED FOR OVERNIGHT, WEEKEND OR EXTENDED PERIODS, PER M.A.G. UNIFORM STANDARD DETAIL 211.
26. ALL ABC SHALL BE FROM AN ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) APPROVED SOURCE LIST.
27. LONGITUDINAL TRENCH BACKFILL IN EXISTING ARTERIAL, COLLECTOR, OR LOCAL ROADWAYS OR ADJACENT TO EXISTING ROADWAY (WHEN THE TRENCH EXCAVATION FALLS WITHIN 2 FEET OF EDGE OF PAVEMENT) SHALL REQUIRE 1/2 SACK CLSM PER MAG SPEC 728 FULL DEPTH OR ABC FULL DEPTH AS DIRECTED BY THE COB. ABC BACKFILL COMPACTION SHALL BE BY AN APPROVED MECHANICAL METHOD (NO WATER SETTLING) WITH BACKFILL MATERIAL LIFTS AS FOLLOWS:
    - 12 INCH LIFTS (LOOSE) TO BE USED IN THE TOP 4 FEET OF THE TRENCH
    - 24 INCH LIFTS (LOOSE) TO BE USED FROM 1 FOOT OVER THE PIPE TO 4 FEET FROM THE TOP OF THE TRENCH PER MAG SEC. 601.4.
28. ALL BACKFILL WITHIN OR ADJACENT TO EXISTING ROADWAYS SHALL BE MECHANICALLY COMPACTED.
29. TRANSVERSE TRENCH BACKFILL IN ALL EXISTING ROADWAYS SHALL REQUIRE 100% FULL DEPTH HALF SACK CLSM PER MAG SPEC 728.
30. ALL MATERIAL SUBMITTALS INCORPORATED IN THE PROJECT SHALL BE SUBMITTED AT OR BEFORE THE PRECONSTRUCTION MEETING FOR REVIEW AND APPROVAL BY THE CITY ENGINEER.

ELECTRICAL GENERAL CONSTRUCTION NOTES

1. ALL EQUIPMENT, MATERIALS AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING OR NOTED OTHERWISE ON OTHER SHEETS.
2. PROVIDE ALL LABOR, MATERIALS, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE WORKING ELECTRICAL SYSTEM.
3. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY AND LOCAL CODES AND ORDINANCES, AS WELL AS ALL CURRENT STANDARDS, CODES AND PRACTICES AS REQUIRED BY NEC, NEMA, ANSI, NFPA, UBC, UL, IEEE, AND UTILITY COMPANY STANDARDS.
4. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER OF ALL SHOP DRAWINGS AND MANUFACTURERS DATA FOR PANEL BOARDS, TRANSFORMERS, WIRING DEVICES, ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL INDICATE THAT THE CONTRACTOR HAS REVIEWED THE INFORMATION THEREIN AND THAT THE PROPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOB SITE. ANY SUBSTITUTIONS SHALL BE OF THE EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
5. ALL WIRE SHALL BE STRANDED COPPER WITH XHHW-2 INSULATION OR APPROVED EQUAL.
6. ALL CONDUIT SHALL BE ROUTED UNDER FOOTINGS WHERE APPLICABLE. REFER TO STRUCTURAL DETAILS FOR MORE INFORMATION.
7. THE USE OF SERIES RATING OF UPSTREAM OR DOWNSTREAM CIRCUIT BREAKERS OR FUSES IS PROHIBITED. ONLY FULLY RATED SYSTEM COMPONENTS WILL BE ACCEPTED.
8. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40. ALL ELBOWS AND EXPOSED RISERS SHALL BE WRAPPED RIGID STEEL CONDUIT.
9. TYPE MC OR TYPE AC CABLE SHALL ONLY BE USED WITH THE SPECIFIC WRITTEN PERMISSION OF THE PROGRAM/PROJECT MANAGER. EMT TYPE CONDUIT WILL NOT BE ALLOWED.
10. ORDER AND/OR RELEASE ORDERED MATERIALS PROMPTLY AFTER SUBMITTAL APPROVAL. NO SUBSTITUTIONS OR ALTERNATE METHODS OF INSTALLATION WILL BE ACCEPTED FOR FAILURE TO ORDER MATERIALS IN A TIMELY FASHION.
11. PULL ROPES: PROVIDE 300 POUND PULL WIRE OR NYLON EQUIVALENT IN ALL INTERIOR EMPTY CONDUIT RUNS. PROVIDE 1/4" DIA NYLON PULL ROPE IN EACH EMPTY EXTERIOR CONDUIT OR DUCT.
12. ALL MULTIPLE POLE CIRCUITS SHALL BE PROVIDED WITH HANDLE TIES AS REQUIRED BY NEC.
13. CONDUIT/ CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT THE TIME OF CONSTRUCTION.
14. PRIOR TO PURCHASE OF ANY PANEL, PROTECTIVE DEVICES, SWITCH, STARTER, CONDUIT, WIRE, ETC., TO FEED ANY PIECE OF EQUIPMENT VERIFY THE VOLTAGE, PHASE, AND LOAD OF THAT ITEM IN THE FIELD AND/OR WITH THE PARTICULAR ENTITY INVOLVED IN THE FURNISHING THE ITEM SUCH THAT THE PROPER SIZE & RATING OF THE MATERIALS ARE PURCHASED. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY. THIS APPLIES TO ALL EQUIPMENT UNDER OTHER SECTIONS & BY THE OWNER.
15. DUE TO THE REQUIREMENTS TO INTERFACE WITH EXISTING FACILITIES AND UTILITIES. IT IS RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE TO DETERMINE EXISTING CONDITIONS PRIOR TO SUBMITTING A JOC PROPOSAL.
16. PROVIDE ALL TRENCHING, EXCAVATION, BACK FILLING, SHORING. PUMPING, COMPACTION TEST ETC. THAT ARE REQUIRED FOR THE SCOPE OF ELECTRICAL WORK.
17. VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
18. ALL PANEL BOARDS, SWITCHES, MOTOR STARTERS AND SWITCHBOARD CIRCUIT BREAKERS SHALL HAVE ENGRAVED MICARTA NAMEPLATES.
19. ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ELECTRICAL WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
20. PROVIDE ALL PANEL BOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE OWNER FOR APPROVAL PRIOR TO FINALIZATION.

LEGEND

—X—X—	EXISTING FENCE
——OH——	EXISTING OVERHEAD POWER LINE
———	EXISTING CONDUIT, ABOVE GRADE
- - - - -	EXISTING CONDUIT, BELOW GRADE
———	PROPOSED RGS CONDUIT, ABOVE GRADE
— — — — —	PROPOSED PVC SCH 40 CONDUIT, BELOW GRADE
E	PROPOSED ELECTRICAL PULL BOX
C	PROPOSED COMMUNICATIONS PULL BOX
J	PROPOSED JUNCTION BOX
	EXISTING LIGHT POLE
	EXISTING TREE
	BRANCH PANELBOARD/SWITCHBOARD
	DISTRIBUTION PANELBOARD/SWITCHBOARD
	AUTOMATIC TRANSFER SWITCH
GEN	PROPOSED GENERATOR SET ON NEW STRUCTURAL PAD. SEE STRUCTURAL DRAWINGS FOR PAD DETAILS.

ABBREVIATIONS

AFG	ABOVE FINISH GRADE
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
EX.	EXISTING
GEC	GROUNDING ELECTRODE CONDUCTOR
GND	GROUND
IBC	INTERNATIONAL BUILDING CODE
IFC	INTERNATIONAL FIRE CODE
IMC	INTERMEDIATE METAL CONDUIT
IPC	INTERNATIONAL PLUMBING CODE
KCMIL	THOUSAND CIRCULAR MIL
MLO	MAIN LUG ONLY
NEC	NATIONAL ELECTRICAL CODE
NTS	NOT TO SCALE
PCP	PUMP CONTROL PANEL
RMC	RIGID METAL CONDUIT
RTU	REMOTE TERMINAL UNIT
SCCR	SHORT CIRCUIT CURRENT RATING
TYP.	TYPICAL
MH	MOUNT HEIGHT

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL GENERAL NOTES

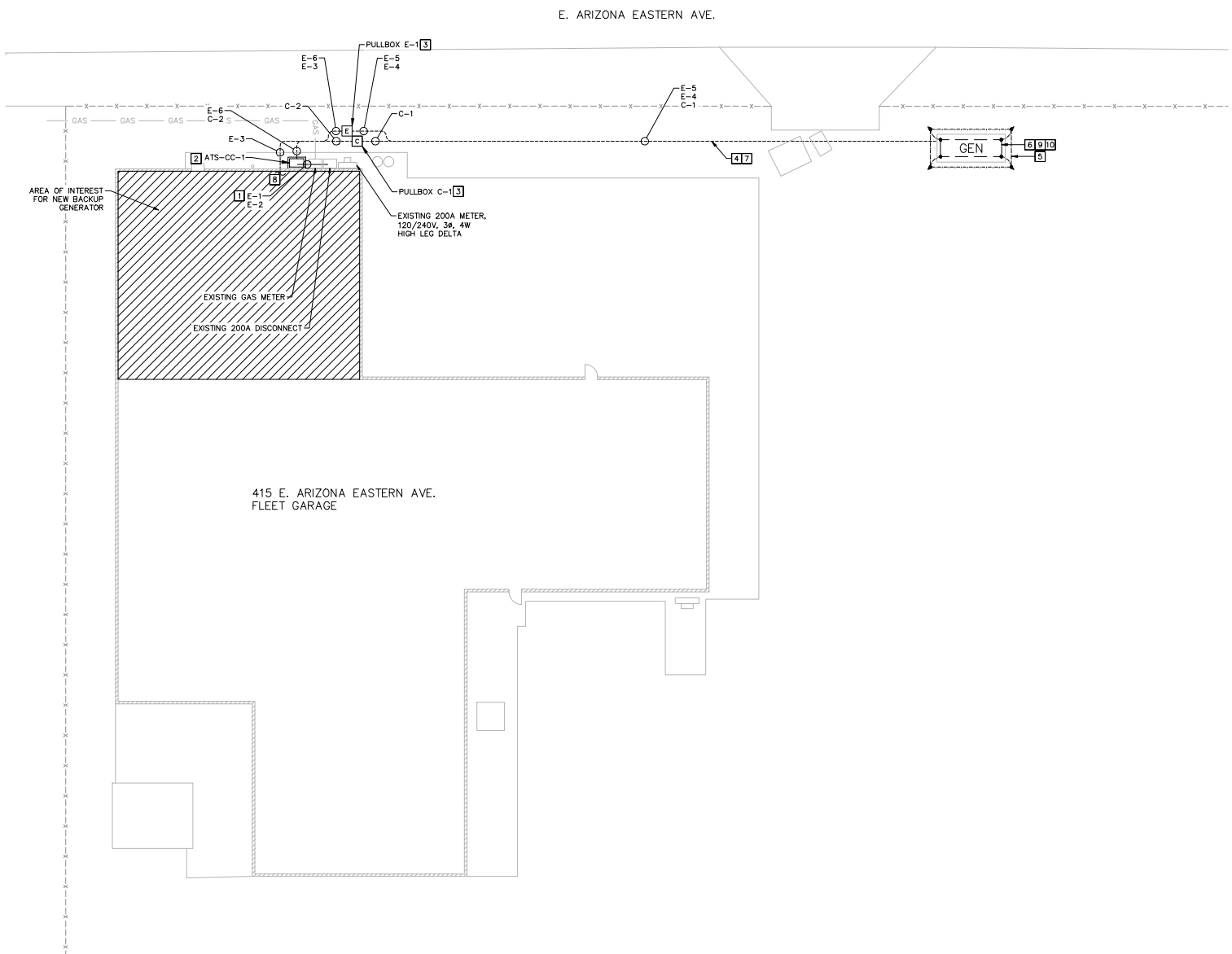
ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Registered Professional Engineer
CERTIFICATE NO. 30360
Nathan A. Colonna
Date Signed 07/07/20
ARIZONA, USA
Expires 12/31/21

SUBMITTAL: FINAL

ORIGINAL PLAN DATE 07/07/2020	LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012	SHEET NUMBER 2 of 7

COB PLAN TRACKING #
COB PERMIT #



A
–
GENERATOR ELECTRICAL SITE PLAN
FLEET (415 E. ARIZONA EASTERN)
SCALE:1"=20'

CONSTRUCTION NOTES

1. SEE SINGLE LINE DIAGRAM SHEET 4 FOR CONDUIT TIE-IN OF ATS-MY-1.
2. MOUNT ATS-MY-1 ON WALL AT 36" ABOVE GROUND. SEE ONE-LINE DIAGRAM FOR ATS-MY-1 INFORMATION.
3. #5 ELECTRICAL PULLBOX. DETAIL SHOWN ON SHEET 5.
4. UNDERGROUND TRENCH DETAIL SHOWN ON SHEET 5.
5. PROVIDE GROUND RING FOR TRANSFORMER PER SPECIFICATIONS. GROUND ROD AND TEST WELL CONNECTION DETAIL SHOWN ON SHEET 5.
6. GENERATOR STRUCTURAL DETAILS SHOWN ON STRUCTURAL PLANS. SEE SHEET 6 AND 7.
7. SEE CONDUIT SCHEDULE ON SHEET 4 FOR CONDUIT AND INTERCONNECTION DETAILS.
8. EXTEND CONDUIT TO PANEL A FOR GENERATOR ANCILLARY LOADS.
9. MOUNT GENERATOR 18" ABOVE FLOOD PLAIN. SET GENERATOR ON PAD OR TANK TO ACHIEVE ELEVATION. SEE STRUCTURAL PLANS.
10. PROPOSED 60 KW/75 KVA, 120/240V, 3P, 4W, NEMA 3R, HIGH LEG DELTA, DIESEL GENERATOR WITH 220 GALLON BELLY TANK.

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1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

REVISIONS:
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2
3

PLAN NAME
ELECTRICAL SITE PLAN

ENGINEER INFORMATION
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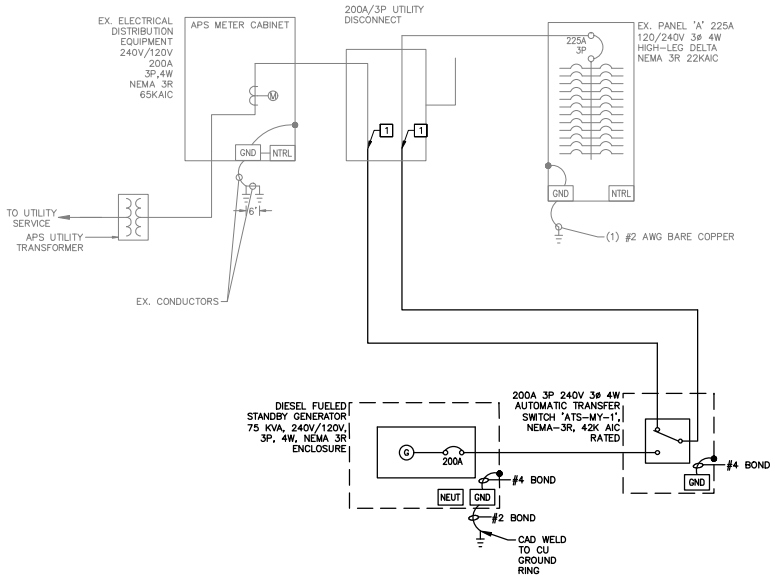
SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL Registered Professional Engineer (Electrical) CERTIFICATE NO. 50368 Michael A. Colombo Date Signed 07/07/20 ARIZONA, U.S.A. Expires 12/31/21
ORIGINAL PLAN DATE 07/07/2020	LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012	SHEET NUMBER 3 of 7

COB PLAN TRACKING #
COB PERMIT #



A — PARTIAL ONELINE DIAGRAM
SCALE:NOT TO SCALE

CONSTRUCTION NOTES

1. INTERCEPT FEEDERS BETWEEN THE UTILITY DISCONNECT AND PANEL A, DISCONNECT AND REROUTE THROUGH THE PROPOSED ATS. REFEED PANEL A AS REQUIRED. FIELD VERIFY.
2. PROVIDE NEW 20A/1P BREAKER IN EXISTING SPACE IN PANEL 'A'. MATCH EXISTING AIC RATING.

GENERATOR LOAD CALCULATION

LOAD DESCRIPTION	AMPS
EXISTING LOADS	
PANEL A	160
TOTAL CALCULATED PEAK DEMAND (EXISTING)	160
TOTAL REMOVED LOAD	0
PROPOSED LOADS	
PROPOSED LOAD (GENERATOR ANCILLARY LOADS)	9
TOTAL PROPOSED LOAD	9
FUTURE LOADS	0
TOTAL GEN LOAD (EXISTING-REMOVED+PROPOSED+FUTURE)	169
PERCENT LOADED % (TOTAL LOAD/200A)	84.5%

C — GENERATOR LOAD SUMMARY
SCALE:NOT TO SCALE

ELECTRICAL UPGRADES CONDUIT AND CABLE SCHEDULE

CONDUIT			CONDUCTORS/CABLE					REMARKS
NO.	SIZE	STATUS	QTY	SIZE	FROM	TO	PURPOSE	
E-1	2"	NEW	4	#3/0 AWG	200A 3P UTILITY DISCONNECT	ATS-MY-1	POWER	DEMOLISH CONDUIT GUTTER ABOVE DISCONNECT. REROUTE NEW CONDUIT(S) PER CONDUIT SCHEDULE TO/FROM ATS-CC-1
			1	#4 AWG			GROUND	
E-2	2"	NEW	4	#3/0 AWG	ATS-MY-1	200A 3P UTILITY DISCONNECT	POWER	DEMOLISH CONDUIT GUTTER ABOVE DISCONNECT. REROUTE NEW CONDUIT(S) PER CONDUIT SCHEDULE TO/FROM ATS-CC-1
			1	#4 AWG			GROUND	
E-3	1"	NEW	4	#8 AWG	PANEL B	PULLBOX E-1	POWER	GENERATOR ANCLLARY LOADS: PANEL A, CKT 19 & 21
			1	#8 AWG			GROUND	
E-4	1"	NEW	4	#8 AWG	PULLBOX E-1	GENERATOR	POWER	GENERATOR ANCLLARY LOADS: PANEL A, CKT 19 & 21
			1	#8 AWG			GROUND	
E-5	2"	NEW	4	#3/0 AWG	GENERATOR	PULLBOX E-1	POWER	CONDUIT TO ATS-MY-1
			1	#6 AWG			GROUND	
E-6	2"	NEW	4	#3/0 AWG	PULLBOX E-1	ATS-CC-1	POWER	CONDUIT TO ATS-MY-1
			1	#6 AWG			GROUND	
C-1	1"	NEW	8-PR #16 AWG		GENERATOR	PULLBOX C-1	CONTROLS	GENERATOR CONTROLS
C-2	1"	NEW	8-PR #16 AWG		PULLBOX C-1	ATS-MY-1	CONTROLS	GENERATOR CONTROLS

B — CONDUIT AND CONDUCTOR SCHEDULE
SCALE:NOT TO SCALE

PANEL: A

VOLTAGE: 120/240 PHASE, WIRES: 3ø, 4W SCCR (AMPS): 22,000 SOURCE: PANEL A
PANEL BUS: 225 AMPS MAIN: MLO BREAKER

	DESCRIPTION	VA	CB	CKT	A	B	C	CKT	CB	VA	DESCRIPTION
	EXISTING LOAD		20/3	1	0			2	20/1		
				3		0		4	20/1		EXISTING LOAD
				5			0	6	20/1		
	EXISTING LOAD		20/3	7	0			8	20/1		
				9		0		10	20/1		EXISTING LOAD
				11			0	12	20/1		SPACE
	EXISTING LOAD		20/1	13	0			14	20/1		
	EXISTING LOAD		20/2	15		0		16	20/1		EXISTING LOAD
				17			0	18	20/1		SPACE
2	GENERATOR BLOCK HEATER	1800	20/1	19	15			20	20/1		EXISTING LOAD
2	GENERATOR BATTERY CHARGER	1800	20/1	21		15		22	20/1		SPACE
	SPACE		20/1	23			0	24	20/1		EXISTING LOAD
			TOTALS		15.0	15.0	0.0	AMPS			

LOAD CALCULATIONS:
SUBTOTAL (VA): 3600
+25% PER NEC (VA): 900
TOTAL (VA): 4500 @ 208V, 3Ø = 12.5 AMPS

D — PANEL SCHEDULE
SCALE:NOT TO SCALE

Point	Point Name	Source* Point	Source Amps	Conduit Type	Conductor Type	Wire Size/Quantity			Load (A)	Distance	Voltage	Phase	Isc	**% Vdrop
1	Utility Published Data	25625	25,625										25,625	
2	SES	1	25,625	NM	Copper	1	Set of	3/0	200	50	480	3	19,237	0.32%
3	ATS	2	19,237	NM	Copper	1	Set of	3/0	200	5	480	3	18,769	0.35%
4	EDPHA	3	18,769	NM	Copper	1	Set of	3/0	200	20	480	3	17,105	0.48%

E — FAULT CURRENT CALCULATION
SCALE:NOT TO SCALE

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL ONE LINE DIAGRAM

ENGINEER INFORMATION
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COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Registered Professional Engineer CERTIFICATE NO. 30360 Michael K. Cifonelli Date Signed 07/07/20 ARIZONA, USA
Expires 12/31/21

SUBMITTAL: FINAL

ORIGINAL PLAN DATE 07/07/2020
LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012
SHEET NUMBER 4 of 7
COB PLAN TRACKING #
COB PERMIT #

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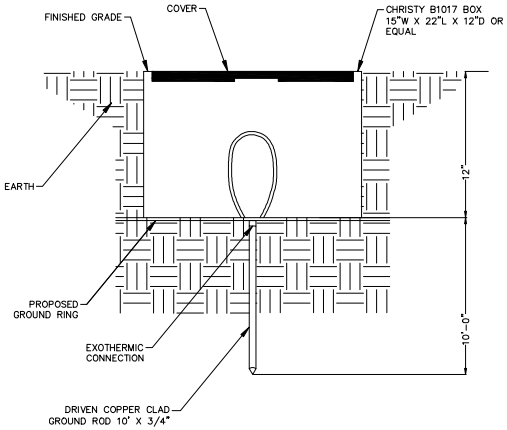
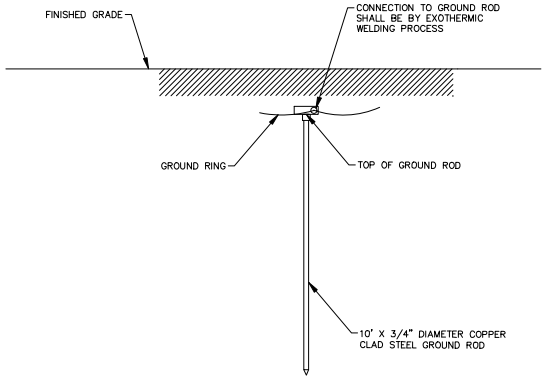


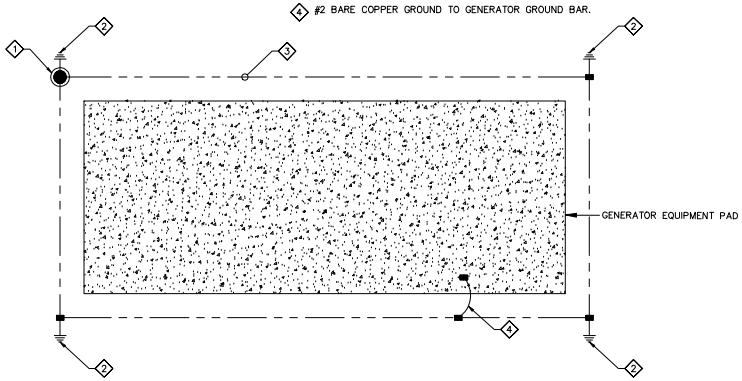
A — GROUNDING TEST WELL DETAIL
SCALE:N.T.S.



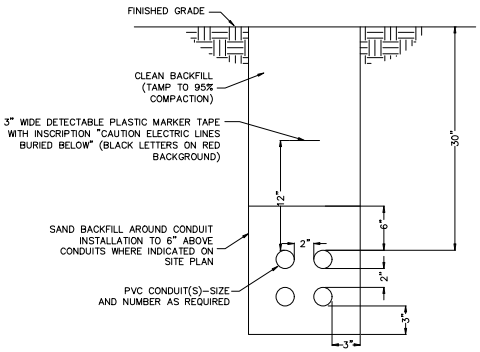
B — GROUND ROD DETAIL
SCALE:N.T.S.

GROUNDING NOTES

1. PROVIDE GROUND TEST POINT PER GROUDING TEST WELL DETAIL.
2. PROVIDE 10' X 3/4" COPPER CLAD GROUND ROD PER GROUND ROD DETAIL .
3. #2 BARE COPPER GROUND GRID BURIED AT 30" BELOW FINISHED GRADE.
4. #2 BARE COPPER GROUND TO GENERATOR GROUND BAR.



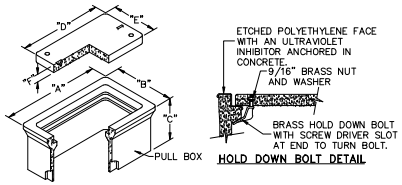
C — GENERATOR GROUNDING PLAN
SCALE:N.T.S.



ALL DIMENSIONS ARE
MINIMUM

NOTE:
1) THIS CONDUIT DUCT BANK DETAIL SHALL BE REFERENCED FOR ALL UNDER GROUND CONDUIT INSTALLATIONS.

D — TYPICAL UNDERGROUND CONDUIT INSTALLATION DETAIL
SCALE:NOT TO SCALE

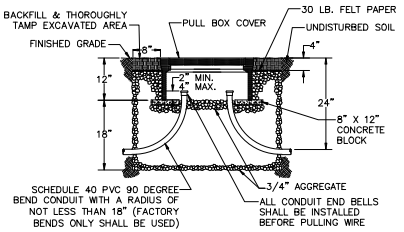


HOLD DOWN BOLT DETAIL



LID 'A' REINFORCED CONCRETE W/HOLD DOWN BOLTS

DATA TABLE						
PULLBOX TYPE	PULLBOX LENGTH	PULLBOX WIDTH	PULLBOX HEIGHT	LID LENGTH	LID WIDTH	LID HEIGHT
	"A"	"B"	"C"	"D"	"E"	"F"
#3 1/2	19-3/4"	14-1/4"	12"	15-1/4"	10"	1-3/4"
#5	25-1/4"	15-3/4"	12"	20-5/8"	10-1/2"	2"
#7	34-3/4"	21-3/4"	12"	30-1/8"	17-5/8"	2"



GENERAL NOTES:

1. THE PULL BOX SHALL BE MADE OF A HIGH DENSITY REINFORCED CONCRETE MATERIAL WITH END & SIDE KNOCKOUTS, & NONSETTLING SHOULDERS TO MAINTAIN GRADE, MANUFACTURED WITH APPROXIMATE DIMENSIONS AS SHOWN.
2. STEEL REINFORCEMENT SHALL BE AS REGULARLY USED IN STANDARD PRODUCTS OF THE RESPECTIVE MANUFACTURER.
3. COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS: "ELECTRIC" OR "HIGH VOLTAGE", AS REQUIRED.
4. THE PULL BOX SHALL HAVE AN ETCHED POLYETHYLENE FACE WITH AN ULTRAVIOLET INHIBITOR ANCHORED IN CONCRETE.

E — PULL BOX INSTALLATION DETAIL
SCALE:NOT TO SCALE

REVISIONS:
1
2
3

PLAN NAME
ELECTRICAL DETAILS

ENGINEER INFORMATION
Kimley»Horn
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SUBMITTAL: FINAL

COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL



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ORIGINAL PLAN DATE	LATEST REVISION DATE
07/07/2020	07/07/2020
PROJECT NUMBER	SHEET NUMBER
191342012	5 of 7

COB PLAN TRACKING #
COB PERMIT #

STRUCTURAL GENERAL NOTES

DESIGN SPECIFICATIONS

2018 INTERNATIONAL BUILDING CODE (IBC) WITH THE CITY OF BUCKEYE AMENDMENTS.

DESIGN LOADS

WIND LOADS: (PER ASCE 7-16)
- BASIC WIND SPEED = ULTIMATE DESIGN WIND SPEED . . . . . .101 MPH
- RISK CATEGORY II
- Iw 1.00
- STRUCTURE TYPE . . . . . .SOLID FREE-STANDING WALL
- EXPOSURE . . . . . ."C"

MAIN WIND FORCE RESISTING SYSTEM:
- DESIGN WIND PRESSURE . . . . . .15.71 psf (STRENGTH LEVEL)
- INTERNAL PRESSURE COEFFICIENT 0.00

EARTHQUAKE DESIGN DATA:
- Ie 1.00
- SITE CLASS . . . . . .D
- Ss . . . . . 0.167g S1 . . . . . .0.077g
- Sms . . . . . 0.178g Sm1 . . . . . .0.123g
- SEISMIC DESIGN CATEGORY . . . . . .B
- DESIGN BASE SHEAR (Cs"W") 0.051W
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

EARTH LOADS:
- ALLOWABLE BEARING PRESSURE = 1500 PSF
- ACTIVE EARTH PRESSURE = 45 PCF
- AT-REST EARTH PRESSURE = 60 PCF
- PASSIVE EARTH PRESSURE = 100 PCF
- = 0.25 (W/OUT PASSIVE PRESSURE)
- MODULUS OF SUBGRADE REACTION = 100 PCI

FOUNDATIONS

ALL EXCAVATION SHALL BE PROPERLY BACKFILLED. FOOTING BACKFILL WITHIN THE FOOTING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE SPECIAL INSPECTOR. FLOODING WILL NOT BE PERMITTED.

SLAB ON GRADE SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. SLAB ON GRADE PREPARATION SHALL BE PREPARED AS STATED IN THE PROJECT SPECIFICATIONS. FOR SLAB-ON-GRADE, THE UPPER 12 INCHES OF SUBGRADE SOILS AND AGGREGATE SUBBASE SHOULD CONSIST OF IMPORTED LOW VOLUME CHANGE MATERIALS." EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE SPECIAL INSPECTOR PRIOR TO PLACING THE CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR WHEN THE EXCAVATIONS ARE READY FOR INSPECTION. THE SPECIAL INSPECTOR SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE SPECIAL INSPECTOR, FOOTING ELEVATIONS, OR FOOTING DESIGNS WILL BE ALTERED BY CHANGE ORDER.

CONCRETE REINFORCING

SEE MAG STANDARD SPECIFICATIONS SECTION 505 AND 725 CLASS A (TYPE II) CONCRETE.

- MINIMUM 28-DAY CONCRETE COMPRESSIVE STRENGTH, f'c = 3000 PSI.
- REINFORCING STEEL, ASTM A615 GRADE 60, fy = 60,000 PSI.

JOINT NOTES

CONCRETE:
SLAB ON GRADE MAY BE CONTINUOUS WITH NO JOINT.

DIMENSIONS

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS AND ELEVATIONS WITH THE CIVIL GRADING DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY PRIOR TO START OF CONSTRUCTION.

GENERAL

WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADDENDUM.

NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT.

WHERE ANY DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN.

ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ARIZONA.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PROVIDED PER 2018 INTERNATIONAL BUILDING CODE (IBC) CHAPTER 17.

A. STEEL CONSTRUCTION (SECTION 1705.2)
B. CONCRETE CONSTRUCTION (TABLE 1705.3)
C. SOILS (TABLE 1705.6)

POST-INSTALLED ANCHORS

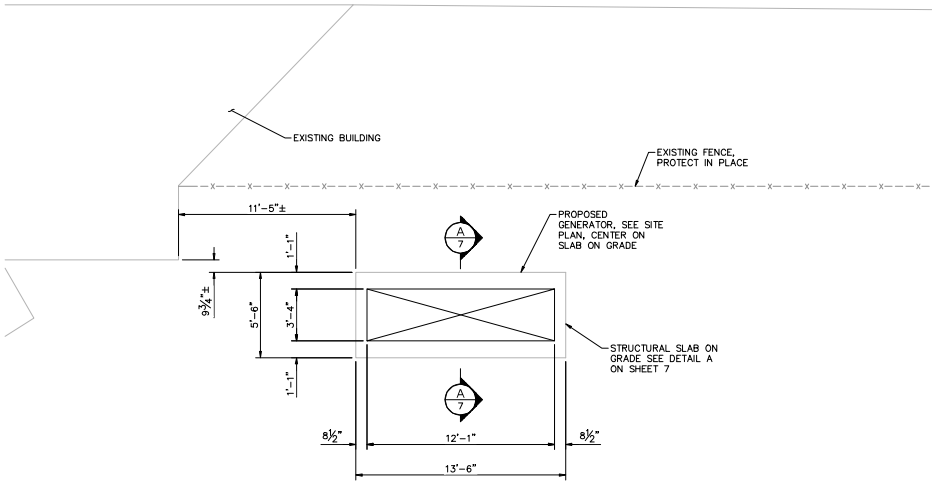
1. UNLESS NOTED OTHERWISE ON PLANS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES, OR APPROVED EQUAL:

	ADHESIVE ANCHOR	MECHANICAL ANCHOR
SOLID CONCRETE	HILTI RE 500 V3 HILTI HY 200 SAFE SET SYSTEM	HILTI KWIK HUS EZ HILTI KWIK BOLT TZ

2. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.
3. INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.
4. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.
5. ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
6. EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AWAY FROM THE LOCATIONS OF THE CONCRETE ANCHORS.

ABBREVIATIONS

ASTM.....AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL
CLR.....CLEARANCE
CONT.....CONTINUOUS
MAX.....MAXIMUM
MIN.....MINIMUM
MPH.....MILES PER HOUR
O.C.....ON CENTER
PCF.....POUNDS PER CUBIC FOOT
PSF.....POUNDS PER SQUARE FOOT
PSI.....POUNDS PER SQUARE INCH
TYP.....TYPICAL
LOL.....LAYOUT LINE
T/F.....TOP OF FOUNDATION
T/W.....TOP OF WALL



A – **PROPOSED GENERATOR LOCATION FLEET (415 E. ARIZONA EASTERN)**
SCALE:1/4"=1'-0"

NORTH

NOTE:

CONTRACTOR SHALL VERIFY LOCATION OF SLAB WITH ENGINEER PRIOR TO CONSTRUCTION. SLAB ON GRADE SHALL BE 11'-5"± FROM EXISTING BUILDING. NOTIFY ENGINEER OF ANY DISCREPANCIES.

REVISIONS:
1
2
3

PLAN NAME
STRUCTURAL NOTES AND PLAN

ENGINEER INFORMATION
Kimley»Horn
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COB PERMITTING APPROVED SEAL
COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL
DESIGN SEAL
Professional Engineer CERTIFICATE NO. 60164 NATHAN MERRILL Expires 09/30/20 ARIZONA, U.S.A.

SUBMITTAL: FINAL

ORIGINAL PLAN DATE 07/07/2020
LATEST REVISION DATE 07/07/2020
PROJECT NUMBER 191342012
SHEET NUMBER 6 of 7

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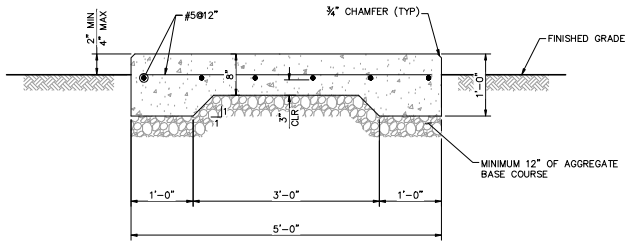
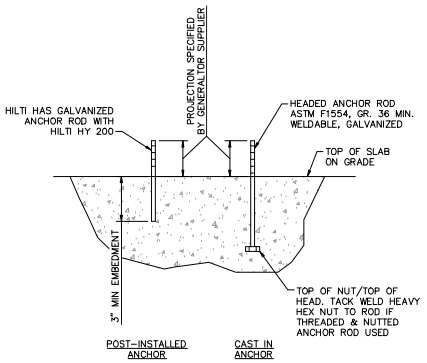


A — **GENERATOR CONCRETE PAD**
SCALE:1"=1'



B — **TYP ANCHOR DETAIL**
SCALE:NOT TO SCALE

NOTES:

1. POST-INSTALLED ADHESIVE ANCHOR RODS ARE ACCEPTABLE IN LIEU OF CAST-IN HEADED ANCHOR RODS AT GENERATOR ANCHOR LOCATIONS.
2. POST-INSTALLED ADHESIVE ANCHOR RODS SHALL STRICTLY FOLLOW MANUFACTURER'S INSTRUCTIONS FOR HOLE SIZE, DRILLING OPERATIONS, PREPARATION, AND MATERIAL HANDLING.
3. SETTING TEMPLATES SHALL BE USED TO SUPPORT ANCHOR RODS DURING CONCRETE PLACEMENT.
4. ANCHOR RODS SHALL BE INSTALLED PLUMB TO FACILITATE THE WASHER AND NUT RESTING FLUSH ON THE BASE PLATE.
5. ALTERNATE POST-INSTALLED ANCHORAGE SYSTEM OF EQUAL PROPERTIES MAY BE USED IN LEIU OF DETAIL SHOWN UPON ENGINEERS APPROVAL.
6. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE.

REVISIONS:

1

2

3

PLAN NAME

STRUCTURAL DETAILS

ENGINEER INFORMATION
Kimley»Horn
7740 N. 16th STREET, SUITE 300, PHOENIX, AZ 85020
PHONE: 602-944-5500 FAX: 602-944-7423
WWW.KIMLEY-HORN.COM

COB PERMITTING APPROVED SEAL	COB ENGINEERING APPROVED SEAL
AS-BUILT SEAL	DESIGN SEAL: Professional Engineer (Civil) CERTIFICATE NO. 60164 NATHAN MERRILL Date Signed 07/07/20 ARIZONA, U.S.A.
ORIGINAL PLAN DATE: 07/07/2020	LATEST REVISION DATE: 07/07/2020
PROJECT NUMBER: 191342012	SHEET NUMBER: 7 of 7

SUBMITTAL: FINAL

COB PLAN TRACKING #

COB PERMIT #

CALL TWO WORKING DAYS BEFORE YOU DIG
602-263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

FLEET (415 E. ARIZONA EASTERN)

City of Buckeye Emergency Generator Repair: Buckeye, AZ

STRUCTURAL CALCULATIONS FOR: Fleet Generator Pad

Prepared By:
Nathan Merrill, PE
Ph: 602-371-4573
Kimley-Horn and Associates, Inc.
7740 N. 16th St
Suite 300
Phoenix AZ, 85020



Date: May 2020

Kimley»Horn

Design References:

1. 2018 International Building Code

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1. DESIGN LOADS

Kimley»Horn

Project: ***Emergency Generator Repair - Fleet*** *Subject:* ***Generator Pad Load Summary***

Designed by: ***ALF*** *Date:* ***04/29/2020*** *Checked by:* *Date:*

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Defined Units

Assumptions

Assume Generator is supplying power to Risk Category II structures, therefore generator is RC II.

Assume Generator is anchored to concrete pad at the 4 corners of the acoustic generator pad, not acoustic enclosure.

Assume X direction aligns with generator length, and Y direction aligns with generator width.

Acoustic Enclosure dimensions used to calculate wind loads.

Generator Specifications

$L_{gen} := 110in = 9.17\,ft$	Length of generator - 100 kW Diesel Generator Specification - see appendix.
$W_{gen} := 40in = 3.33\,ft$	Width of generator - 100 kW Diesel Generator Specification - see appendix.
$H_{gen} := 89in = 7.42\,ft$	Height of Generator - 100 kW Diesel Generator Specification - see appendix.
$L_{enc} := 145in = 12.08\,ft$	Length of Enclosure - 100 kW Diesel Generator Specification - see appendix..
$W_{enc} := 40in = 3.33\,ft$	Width of Enclosure - 100 kW Diesel Generator Specification - see appendix.
$H_{enc} := 106in = 8.83\,ft$	Height of Enclosure - 100 kW Diesel Generator Specification - see appendix.
$n_{anchors} := 4$	Number of Anchors assumed.

Soils Information

Assume conservative values from IBC Section 1610 & 1806

$p_a := 45pcf$	Active Soil Pressure
$p_{ar} := 60pcf$	At-Rest Soil Pressure
$p_p := 100pcf$	Passive Soil Pressure
$w_{soil} := 120pcf$	Unit Weight of Soil
$\mu := 0.25$	Soil Sliding Friction Factor

Generator Loading

$q_{wind} := 15.78psf$

Applied Wind pressure. Maximum Tedds Run - see Wind Loading Calculations

$V_{seismic} := 0.3kip$

Seismic Base Shear - see Seismic Loading Calculations. Apply at mid height of equipment to calculate anchor reactions.

$Weight_{gen} := 6.686kip$

100 kW Diesel Generator Specification - see appendix.

$$X_{wind} := \frac{\left(q_{wind} \cdot W_{enc} \cdot H_{enc}\right)}{n_{anchors}} = 0.12 \cdot kip$$

$$Y_{wind} := \frac{\left(q_{wind} \cdot L_{enc} \cdot H_{enc}\right)}{n_{anchors}} = 0.42 \cdot kip$$

$$Z_{wind} := \frac{\left[\frac{\left[\left(q_{wind} \cdot L_{enc} \cdot H_{enc}\right) \cdot \frac{H_{enc}}{2}\right]}{\left(\frac{W_{gen}}{2}\right)}\right]}{\frac{n_{anchors}}{2}} = 2.23 \cdot kip$$

Governing uplift- assumed wind is acting on Length of enclosure. Couple analyzed in Y direction for governing uplift - used for anchor design. Dead Load not added - conservative

$$Z_{seismic} := \frac{\left[\frac{\left[\left(V_{seismic}\right) \cdot \frac{H_{enc}}{2}\right]}{\left(\frac{W_{gen}}{2}\right)}\right]}{\frac{n_{anchors}}{2}} = 0.4 \cdot kip$$

Seismic uplift/compression - couple analyzed in Y direction for governing uplift

By inspection Wind Governs anchor and slab design.

$$Z_{strength} := \left(1.2 \cdot \frac{Weight_{gen}}{n_{anchors}}\right) + Z_{wind} = 4.24 \cdot kip$$

Vertical Shear transferred through anchor. Used for slab design

Bearing Check

Check governs over enercalc design - uses full slab area instead of 1 ft tributary width

$L_{pad} := 14ft$

Length of pad

$W_{pad} := 5ft$

Width of pad

Assumed bearing Capacity

$\sigma_{brg} := 1500psf$

$C_{brg} := \sigma_{brg} \cdot L_{pad} \cdot W_{pad} = 105 \cdot kip$

Bearing Capacity

$D_{brg} := Z_{strength} \cdot n_{anchors} = 16.95 \cdot kip$

Bearing Demand

$CH_{brg} := if\left(C_{brg} > D_{brg}, "OK", "NG"\right) = "OK"$

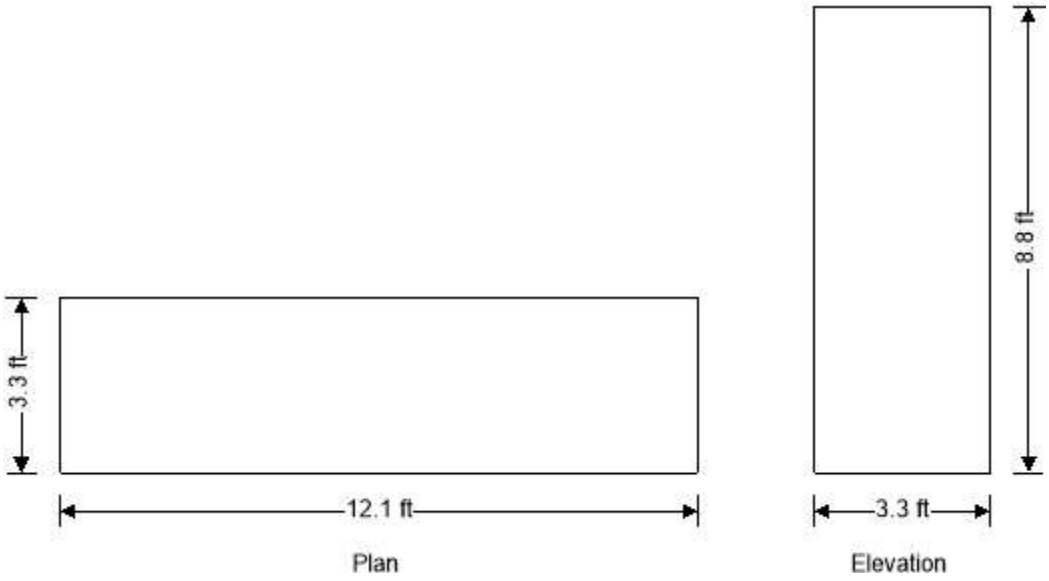
1.1 WIND LOADS

WIND LOADING

In accordance with ASCE7-16

Using the directional design method

Tedds calculation version 2.1.03



Building data

Type of roof	Flat
Length of building	b = **12.08** ft
Width of building	d = **3.33** ft
Height to eaves	H = **8.83** ft
Mean height	h = **8.83** ft

General wind load requirements

Basic wind speed	V = **101.0** mph
Risk category	II
Velocity pressure exponent coef (Table 26.6-1)	K_d = **0.85**
Ground elevation above sea level	z_{gl} = **885** ft
Ground elevation factor	$K_e = \exp(-0.0000362 \times z_{gl}/1ft)$ = **0.97**
Exposure category (cl 26.7.3)	C
Enclosure classification (cl.26.12)	Enclosed buildings
Internal pressure coef +ve (Table 26.13-1)	GC_{pi_p} = **0.18**
Internal pressure coef –ve (Table 26.13-1)	GC_{pi_n} = **-0.18**
Gust effect factor	G_f = **0.85**
Minimum design wind loading (cl.27.4.7)	p_{min_r} = **8** lb/ft^2

Topography

Topography factor not significant	K_{zt} = 1.0
Velocity pressure equation	$q = 0.00256 \times K_z \times K_{zt} \times K_d \times V^2 \times 1psf/mph^2$

Velocity pressures table

z (ft)	K_z (Table 26.10-1)	q_z (psf)
8.83	0.85	18.27

Peak velocity pressure for internal pressure

Peak velocity pressure – internal (as roof press.) q_i = **18.27** psf

Pressures and forces

Net pressure $p = q \times G_f \times C_{pe} - q_i \times GC_{pi}$

Net force $F_w = p \times A_{ref}$

Roof load case 1 - Wind 0, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (-ve)	8.83	-1.30	18.27	-23.48	40.23	-0.94

Total vertical net force $F_{w,v}$ = **-0.94** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 1 - Wind 0, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	8.83	0.80	18.27	9.14	106.67	0.97
B	8.83	-0.50	18.27	-11.06	106.67	-1.18
C	8.83	-0.70	18.27	-14.16	29.40	-0.42
D	8.83	-0.70	18.27	-14.16	29.40	-0.42

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_0} = b \times H$ = **106.67** ft^2

Projected vertical area of roof $A_{vert\_r\_0}$ = **0.00** ft^2

Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_0} + p_{min\_r} \times A_{vert\_r\_0}$ = **1.71** kips

Leeward net force $F_l = F_{w,wB}$ = **-1.2** kips

Windward net force $F_w = F_{w,wA}$ = **1.0** kips

Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min})$ = **2.2** kips

Roof load case 2 - Wind 0, GC_{pi} -0.18, $-0c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (+ve)	8.83	-0.18	18.27	0.49	40.23	0.02

Total vertical net force $F_{w,v}$ = **0.02** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 2 - Wind 0, GC_{pi} -0.18, $-0c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	8.83	0.80	18.27	15.71	106.67	1.68
B	8.83	-0.50	18.27	-4.48	106.67	-0.48
C	8.83	-0.70	18.27	-7.58	29.40	-0.22
D	8.83	-0.70	18.27	-7.58	29.40	-0.22

Overall loading

Projected vertical plan area of wall — $A_{vert\_w\_0} = b \times H =$ **106.67** ft^2

Projected vertical area of roof — $A_{vert\_r\_0} =$ **0.00** ft^2

Minimum overall horizontal loading — $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_0} + p_{min\_r} \times A_{vert\_r\_0} =$ **1.71** kips

Leeward net force — $F_l = F_{w,wB} =$ **-0.5** kips

Windward net force — $F_w = F_{w,wA} =$ **1.7** kips

Overall horizontal loading — $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min}) =$ **2.2** kips

Roof load case 3 - Wind 90, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (-ve)	8.83	-1.08	18.27	-20.14	14.70	-0.30
B (-ve)	8.83	-0.81	18.27	-15.83	14.70	-0.23
C (-ve)	8.83	-0.59	18.27	-12.49	10.82	-0.14

Total vertical net force — $F_{w,v} =$ **-0.66** kips

Total horizontal net force — $F_{w,h} =$ **0.00** kips

Walls load case 3 - Wind 90, GC_{pi} 0.18, $-c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	8.83	0.80	18.27	9.14	29.40	0.27
B	8.83	-0.22	18.27	-6.68	29.40	-0.20
C	8.83	-0.70	18.27	-14.16	106.67	-1.51
D	8.83	-0.70	18.27	-14.16	106.67	-1.51

Overall loading

Projected vertical plan area of wall — $A_{vert\_w\_90} = d \times H =$ **29.40** ft^2

Projected vertical area of roof — $A_{vert\_r\_90} =$ **0.00** ft^2

Minimum overall horizontal loading — $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_90} + p_{min\_r} \times A_{vert\_r\_90} =$ **0.47** kips

Leeward net force — $F_l = F_{w,wB} =$ **-0.2** kips

Windward net force — $F_w = F_{w,wA} =$ **0.3** kips

Overall horizontal loading — $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min}) =$ **0.5** kips

Roof load case 4 - Wind 90, GC_{pi} -0.18, $+c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A (+ve)	8.83	-0.18	18.27	0.49	14.70	0.01
B (+ve)	8.83	-0.18	18.27	0.49	14.70	0.01
C (+ve)	8.83	-0.18	18.27	0.49	10.82	0.01

Total vertical net force $F_{w,v}$ = **0.02** kips

Total horizontal net force $F_{w,h}$ = **0.00** kips

Walls load case 4 - Wind 90, GC_{pi} -0.18, $+c_{pe}$

Zone	Ref. height (ft)	Ext pressure coefficient c_{pe}	Peak velocity pressure q_p (psf)	Net pressure p (psf)	Area A_{ref} (ft^2)	Net force F_w (kips)
A	8.83	0.80	18.27	15.71	29.40	0.46
B	8.83	-0.22	18.27	-0.11	29.40	0.00
C	8.83	-0.70	18.27	-7.58	106.67	-0.81
D	8.83	-0.70	18.27	-7.58	106.67	-0.81

Overall loading

Projected vertical plan area of wall $A_{vert\_w\_90} = d \times H$ = **29.40** ft^2

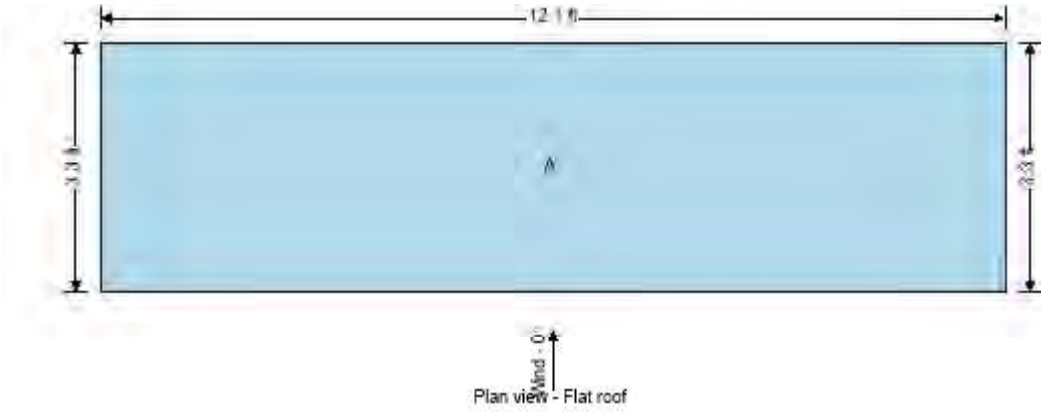
Projected vertical area of roof $A_{vert\_r\_90}$ = **0.00** ft^2

Minimum overall horizontal loading $F_{w,total\_min} = p_{min\_w} \times A_{vert\_w\_90} + p_{min\_r} \times A_{vert\_r\_90}$ = **0.47** kips

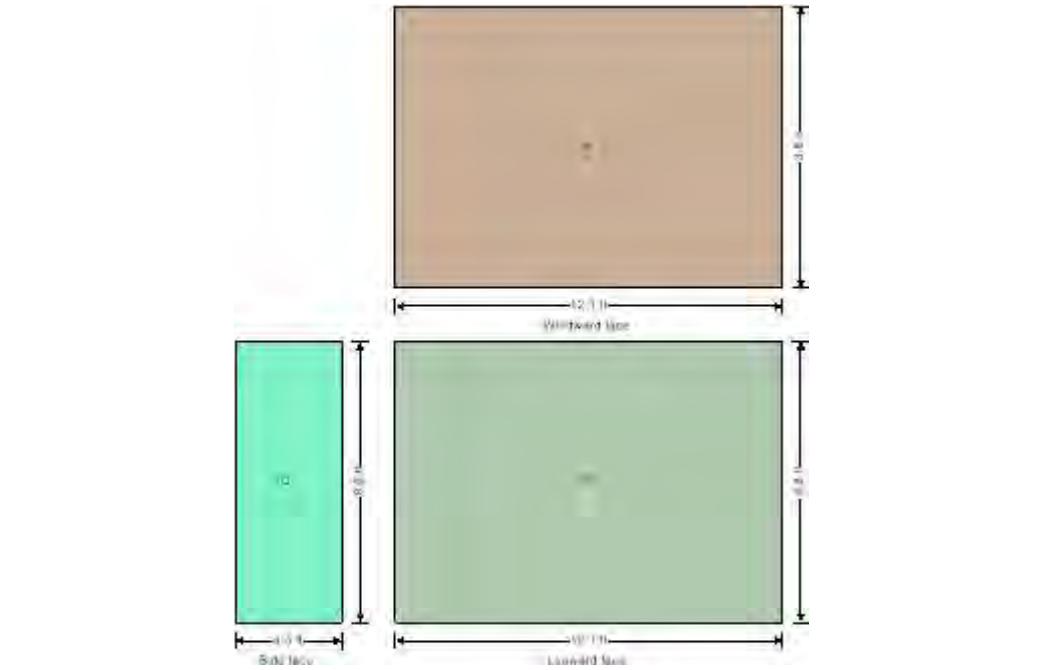
Leeward net force $F_l = F_{w,wB}$ = **0.0** kips

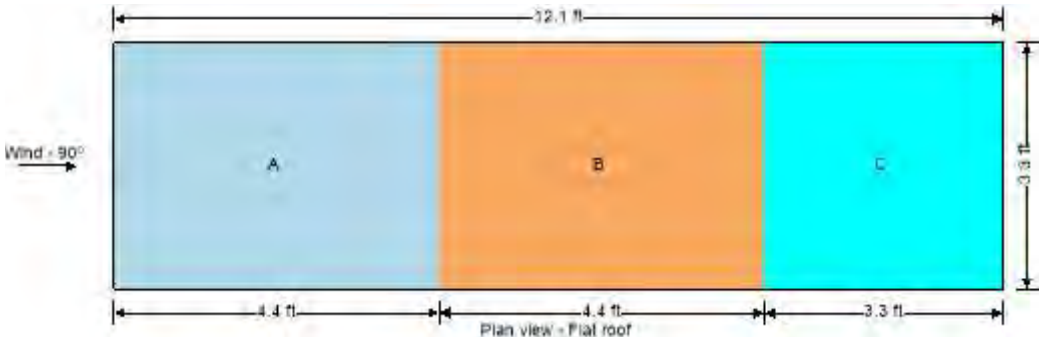
Windward net force $F_w = F_{w,wA}$ = **0.5** kips

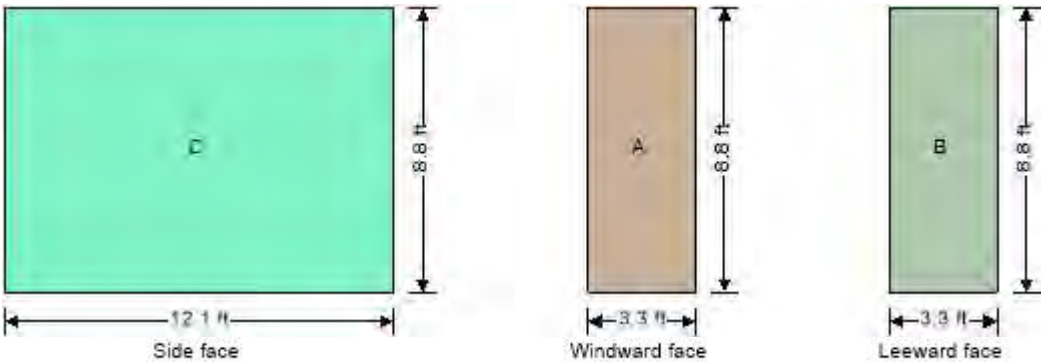
Overall horizontal loading $F_{w,total} = \max(F_w - F_l + F_{w,h}, F_{w,total\_min})$ = **0.5** kips



Plan view - Flat roof




12.1 ft
Wind - 90°
A
B
C
3.3 ft
4.4 ft
4.4 ft
3.3 ft
Plan view - Flat roof


C
8.8 ft
12.1 ft
Side face
A
8.8 ft
3.3 ft
Windward face
B
8.8 ft
3.3 ft
Leeward face

1.2 SEISMIC LOADS

SEISMIC FORCES (ASCE 7-16)

Tedds calculation version 3.1.00

Site parameters

Site class	D, Soil properties not known
Mapped acceleration parameters (Section 11.4.2)	
at short period	S_S = **0.167**
at 1 sec period	S_1 = **0.077**
Site coefficientat short period (Table 11.4-1)	F_a = **1.600**
at 1 sec period (Table 11.4-2)	F_v = **2.400**

Spectral response acceleration parameters

at short period (Eq. 11.4-1)	$S_{MS} = F_a \times S_S$ = **0.267**
at 1 sec period (Eq. 11.4-2)	$S_{M1} = F_v \times S_1$ = **0.185**

Design spectral acceleration parameters (Sect 11.4.4)

at short period (Eq. 11.4-3)	$S_{DS} = 2 / 3 \times S_{MS}$ = **0.178**
at 1 sec period (Eq. 11.4-4)	$S_{D1} = 2 / 3 \times S_{M1}$ = **0.123**

Seismic design category

Occupancy category (Table 1-1)	II
Seismic design category based on short period response acceleration (Table 11.6-1)	B
Seismic design category based on 1 sec period response acceleration (Table 11.6-2)	B
Seismic design category	B

Approximate fundamental period

Height above base to highest level of building	h_n = **8.83** ft
From Table 12.8-2:	
Structure type	Steel moment frame
Building period parameter C_t	C_t = **0.028**
Building period parameter x	x = **0.80**
Approximate fundamental period (Eq 12.8-7)	$T_a = C_t \times (h_n)^x \times 1sec / (1ft)^x$= **0.160** sec
Building fundamental period (Sect 12.8.2)	$T = T_a$ = **0.160** sec
Long-period transition period	T_L = **6** sec

Seismic response coefficient

Seismic force-resisting system (Table 12.2-1)	C_MOMENT_RESISTING_FRAME_SYSTEMS 4. Steel ordinary moment frames
Response modification factor (Table 12.2-1)	R = **3.5**
Seismic importance factor (Table 1.5-2)	I_e = **1.000**
Seismic response coefficient (Sect 12.8.1.1)	
Calculated (Eq 12.8-3)	$C_{s\_calc} = S_{DS} / (R / I_e)$ = **0.0509**
Maximum (Eq 12.8-3)	$C_{s\_max} = S_{D1} / ((T / 1 sec) \times (R / I_e))$ = **0.2201**
Minimum (Eq 9.5.5.2.1-3)	$C_{s\_min} = max(0.044 \times S_{DS} \times I_e, 0.01)$ = **0.0100**

Seismic response coefficient	C_s = **0.0509**

Seismic base shear (Sect 12.8.1)

Effective seismic weight of the structure	W = **6.7** kips
Seismic response coefficient	C_s = **0.0509**
Seismic base shear (Eq 12.8-1)	$V = C_s \times W$ = **0.3** kips

2. SLAB ON GRADE DESIGN

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - Fleet

CODE REFERENCES

Calculations per ACI 318-14, IBC 2015, CBC 2016, ASCE 7-10
Load Combinations Used : ASCE 7-16

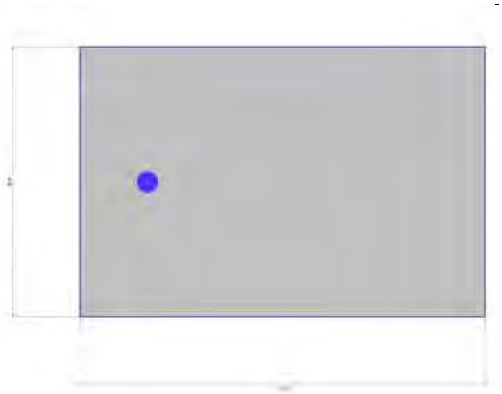
Material Properties

f'c	=	3.0 ksi	ϕ Phi Values	Flexure :	0.90
fr = f'c$^{1/2}$ * 7.50	=	410.792 psi		Shear :	0.750
ψ Density	=	145.0 pcf	β_1	=	0.850
λ Lt Wt Factor	=	1.0			
Elastic Modulus	=	3,122.0 ksi			

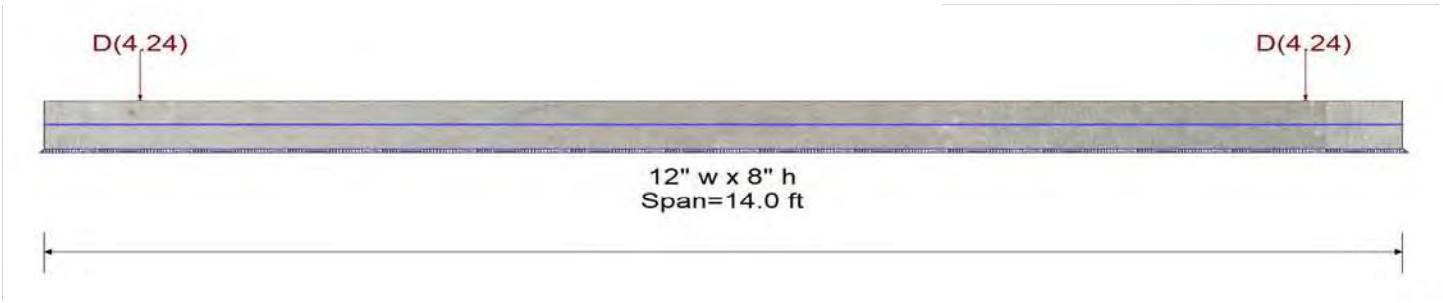
Soil Subgrade Modulus = 100.0 psi / (inch deflection)

Load Combination ASCE 7-16

fy - Main Rebar	=	60.0 ksi	Fy - Stirrups	=	40.0 ksi
E - Main Rebar	=	29,000.0 ksi	E - Stirrups	=	29,000.0 ksi
			Stirrup Bar Size #	=	# 4
			Number of Resisting Legs Per Stirrup		2



Beam is supported on an elastic foundation,



Cross Section & Reinforcing Details

Rectangular Section, Width = 12.0 in, Height = 8.0 in
Span #1 Reinforcing....
1-#5 at 4.0 in from Top, from 0.0 to 14.0 ft in this span

Applied Loads

Service loads entered. Load Factors will be applied for calculations.

Point Load : D = 4.240 k @ 1.0 ft
Point Load : D = 4.240 k @ 13.0 ft

DESIGN SUMMARY

Design OK

Maximum Bending Stress Ratio	=	0.871 : 1	Maximum Deflection	
Section used for this span		Typical Section	Max Downward L+Lr+S Deflection	0.000 in
Mu : Applied		-4.490 k-ft	Max Upward L+Lr+S Deflection	0.000 in
Mn * Phi : Allowable		5.156 k-ft	Max Downward Total Deflection	0.105 in
Load Combination		D Only	Max Upward Total Deflection	0.005 in
Location of maximum on span		7.082 ft		
Span # where maximum occurs		Span # 1		
Maximum Soil Pressure	=	1.508 ksf at 0.00 ft LdComb: D Only		
Allowable Soil Pressure	=	1.50 ksf EXCEEDED!		

Bearing pressures checked in Mathcad for full slab area

Shear Stirrup Requirements

Entire Beam Span Length : Vu < PhiVc/2, Req'd Vs = Not Reqd, use stirrups spaced at 0.000 in

Maximum Forces & Stresses for Load Combinations

Load Combination / Segment Length	Span #	Location (ft) in Span	Bending Stress Results (k-ft) Mu : Max	Phi*Mnx	Stress Ratio
MAXimum Bending Envelope					
Span # 1	1	13.012	0.69	5.16	0.13
D Only					
Span # 1	1	13.012	0.69	5.16	0.13

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - Fleet

Overall Maximum Deflections - Unfactored Loads

Load Combination	Span	Max. "-" Defl	Location in Span	Load Combination	Max. "+" Defl	Location in Span
Span 1	1	0.1047	0.000		0.0000	0.000

Detailed Shear Information

Load Combination	Span Number	Distance (ft)	'd' (in)	Vu (k) Actual	Vu (k) Design	Mu (k-ft)	d*Vu/Mu	Phi*Vc (k)	Comment	Phi*Vs (k)	Spacing (in) Req'd	Spacing (in) Suggest
D Only	1	0.00	4.00	0.12	0.12	0.00	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.16	4.00	0.36	0.36	0.02	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.33	4.00	0.59	0.59	0.08	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.49	4.00	0.82	0.82	0.18	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.66	4.00	1.03	1.03	0.31	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.82	4.00	1.24	1.24	0.48	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	0.99	4.00	1.44	1.44	0.69	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	1.15	4.00	-2.61	2.61	0.27	1.00	4.33	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.32	4.00	-2.43	2.43	0.16	1.00	4.33	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.48	4.00	-2.26	2.26	0.56	1.00	4.33	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	1.65	4.00	-2.09	2.09	0.93	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	1.81	4.00	-1.93	1.93	1.27	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	1.98	4.00	-1.78	1.78	1.59	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.14	4.00	-1.64	1.64	1.88	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.31	4.00	-1.51	1.51	2.15	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.47	4.00	-1.38	1.38	2.40	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.64	4.00	-1.26	1.26	2.63	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.80	4.00	-1.15	1.15	2.84	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	2.96	4.00	-1.05	1.05	3.03	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.13	4.00	-0.95	0.95	3.20	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.29	4.00	-0.86	0.86	3.36	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.46	4.00	-0.77	0.77	3.50	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.62	4.00	-0.70	0.70	3.62	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.79	4.00	-0.62	0.62	3.74	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	3.95	4.00	-0.56	0.56	3.84	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.12	4.00	-0.49	0.49	3.93	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.28	4.00	-0.44	0.44	4.01	0.87	4.25	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.45	4.00	-0.39	0.39	4.09	0.76	4.19	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.61	4.00	-0.34	0.34	4.15	0.66	4.13	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.78	4.00	-0.30	0.30	4.21	0.57	4.08	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	4.94	4.00	-0.26	0.26	4.26	0.49	4.03	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.11	4.00	-0.23	0.23	4.30	0.42	3.99	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.27	4.00	-0.19	0.19	4.34	0.36	3.95	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.44	4.00	-0.17	0.17	4.37	0.30	3.92	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.60	4.00	-0.14	0.14	4.39	0.26	3.89	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.76	4.00	-0.12	0.12	4.42	0.21	3.87	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	5.93	4.00	-0.10	0.10	4.44	0.17	3.85	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.09	4.00	-0.08	0.08	4.45	0.14	3.83	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.26	4.00	-0.06	0.06	4.47	0.11	3.81	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.42	4.00	-0.04	0.04	4.48	0.08	3.79	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.59	4.00	-0.03	0.03	4.48	0.05	3.78	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.75	4.00	-0.01	0.01	4.49	0.03	3.76	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	6.92	4.00	-0.00	0.00	4.49	0.00	3.75	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.08	4.00	0.01	0.01	4.49	0.03	3.76	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.25	4.00	0.03	0.03	4.49	0.05	3.78	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.41	4.00	0.04	0.04	4.48	0.08	3.79	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.58	4.00	0.06	0.06	4.48	0.11	3.81	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.74	4.00	0.08	0.08	4.47	0.14	3.83	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	7.91	4.00	0.10	0.10	4.45	0.17	3.85	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.07	4.00	0.12	0.12	4.44	0.21	3.87	Vu < PhiVc/2	Not Reqd	0.00	0.00

Beam on Elastic Foundation

File = K:\PHX_EL~1\1LUFRD~E\Design\SEV10W~K\B6UJPK~Y.EC6
ENERCALC, INC. 1983-2018, Build:10.18.1.31, Ver:10.18.1.31

Lic. # : KW-06008578 — Licensee : KIMLEY-HORN & ASSOCIATES INC

Description : Typical Slab - Fleet

Detailed Shear Information

Load Combination	Span Number	Distance (ft)	'd' (in)	Vu (k) Actual	Design	Mu (k-ft)	d*Vu/Mu	Phi*Vc (k)	Comment	Phi*Vs (k)	Spacing (in) Req'd	Suggest
D Only	1	8.24	4.00	0.14	0.14	4.42	0.25	3.89	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.40	4.00	0.17	0.17	4.39	0.30	3.92	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.56	4.00	0.19	0.19	4.37	0.36	3.95	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.73	4.00	0.23	0.23	4.34	0.42	3.99	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	8.89	4.00	0.26	0.26	4.30	0.48	4.03	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.06	4.00	0.30	0.30	4.26	0.56	4.07	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.22	4.00	0.34	0.34	4.21	0.65	4.12	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.39	4.00	0.39	0.39	4.15	0.75	4.18	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.55	4.00	0.44	0.44	4.09	0.86	4.25	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.72	4.00	0.49	0.49	4.01	0.99	4.32	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	9.88	4.00	0.56	0.56	3.93	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.05	4.00	0.62	0.62	3.84	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.21	4.00	0.70	0.70	3.74	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.38	4.00	0.77	0.77	3.62	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.54	4.00	0.86	0.86	3.50	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.71	4.00	0.95	0.95	3.36	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	10.87	4.00	1.05	1.05	3.20	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.04	4.00	1.15	1.15	3.03	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.20	4.00	1.26	1.26	2.84	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.36	4.00	1.38	1.38	2.63	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.53	4.00	1.51	1.51	2.40	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.69	4.00	1.64	1.64	2.15	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	11.86	4.00	1.78	1.78	1.88	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.02	4.00	1.93	1.93	1.59	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.19	4.00	2.09	2.09	1.27	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	12.35	4.00	2.26	2.26	0.93	1.00	4.33	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	12.52	4.00	2.43	2.43	0.56	1.00	4.33	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	12.68	4.00	2.61	2.61	0.16	1.00	4.33	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	12.85	4.00	2.80	2.80	0.27	1.00	4.33	PhiVc/2 < Vu <=	Not Reqd 1	0.00	0.00
D Only	1	13.01	4.00	-1.24	1.24	0.69	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.18	4.00	-1.03	1.03	0.48	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.34	4.00	-0.82	0.82	0.31	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.51	4.00	-0.59	0.59	0.18	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.67	4.00	-0.36	0.36	0.08	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00
D Only	1	13.84	4.00	-0.12	0.12	0.02	1.00	4.33	Vu < PhiVc/2	Not Reqd	0.00	0.00

3. ANCHOR DESIGN

Company:	Kimley-Horn and Associates, Inc	Page:	1
Address:	111 East Broadway, 600	Specifier:	J.Goodsell
Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

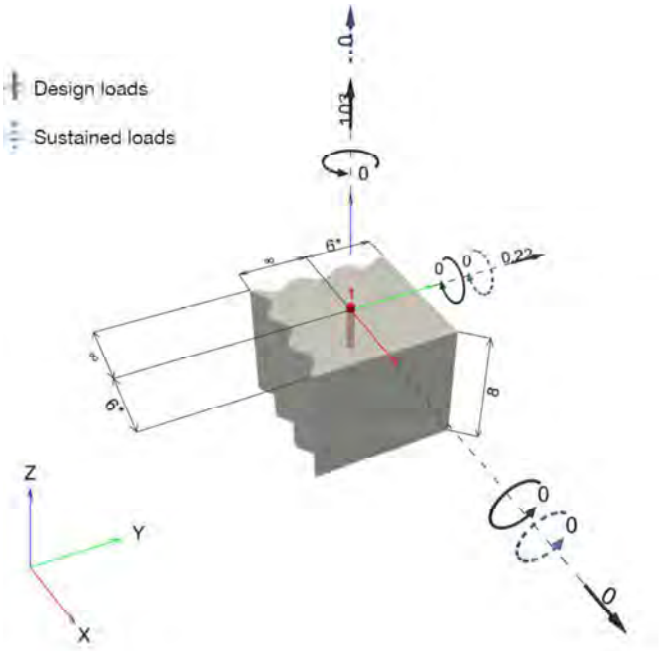
Specifier's comments:

1 Input data



Anchor type and diameter:	**HIT-HY 200 + Rebar A 615 Gr.40 #4**
Item number:	not available (element) / 2022793 HIT-HY 200-R (adhesive)
Effective embedment depth:	$h_{ef,opti}$ = 2.750 in. ($h_{ef,limit}$ = 6.750 in.)
Material:	ASTM A 615 GR.40
Evaluation Service Report:	ESR-3187
Issued I Valid:	4/1/2019 | 3/1/2020
Proof:	Design Method ACI 318-14 / Chem
Stand-off installation:	
Profile:	
Base material:	cracked concrete, 3000, f_c' = 3,000 psi; h = 8.000 in., Temp. short/long: 32/32 °F
Installation:	**hammer drilled hole, Installation condition: Dry**
Reinforcement:	tension: condition B, shear: condition B; no supplemental splitting reinforcement present edge reinforcement: none or < No. 4 bar

Geometry [in.] & Loading [kip, ft.kip]



Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Company:	Kimley-Horn and Associates, Inc	Page:	2
Address:	111 East Broadway, 600	Specifier:	J.Goodsell
Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

1.1 Design results

Case	Description	Forces [kip] / Moments [ft.kip]	Seismic	Max. Util. Anchor [%]
1	Combination 1	N = 1.030; V_x = 0.000; V_y = 0.220; M_x = 0.00000; M_y = 0.00000; M_z = 0.00000; N_{sus} = 0.000; $M_{x,sus}$ = 0.00000; $M_{y,sus}$ = 0.00000;	no	38

2 Load case/Resulting anchor forces

Anchor reactions [kip]
Tension force: (+Tension, -Compression)

Anchor	Tension force	Shear force	Shear force x	Shear force y
1	1.030	0.220	0.000	0.220

max. concrete compressive strain: - [‰]
max. concrete compressive stress: - [psi]
resulting tension force in (x/y)=(0.000/0.000): 0.000 [kip]
resulting compression force in (x/y)=(0.000/0.000): 0.000 [kip]

3 Tension load

	Load N_{ua} [kip]	Capacity ϕN_n [kip]	Utilization $\beta_N = N_{ua}/\phi N_n$	Status
Steel Strength*	1.030	7.800	14	OK
Bond Strength**	1.030	3.088	34	OK
Sustained Tension Load Bond Strength*	N/A	N/A	N/A	N/A
Concrete Breakout Failure**	1.030	2.760	38	OK

* highest loaded anchor **anchor group (anchors in tension)

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

3.1 Steel Strength

N_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi N_{sa} \geq N_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,N}$ [in.^{2}]	f_{uta} [psi]
0.20	60,000

Calculations

N_{sa} [kip]
12.000

Results

N_{sa} [kip]	ϕ_{steel}	ϕN_{sa} [kip]	N_{ua} [kip]
12.000	0.650	7.800	1.030

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

3.2 Bond Strength

$N_a = \left(\frac{A_{Na}}{A_{Na0}}\right) \psi_{ed,Na} \psi_{cp,Na} N_{ba}$ — ACI 318-14 Eq. (17.4.5.1a)

$\phi N_a \geq N_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Na} see ACI 318-14, Section 17.4.5.1, Fig. R 17.4.5.1(b)

$A_{Na0} = (2 c_{Na})^2$ — ACI 318-14 Eq. (17.4.5.1c)

$c_{Na} = 10 d_a \sqrt{\frac{\tau_{uncr}}{1100}}$ — ACI 318-14 Eq. (17.4.5.1d)

$\psi_{ed,Na} = 0.7 + 0.3 \left(\frac{c_{a,min}}{c_{Na}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.5.4b)

$\psi_{cp,Na} = MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{c_{Na}}{c_{ac}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.5.5b)

$N_{ba} = \lambda_a \cdot \tau_{k,c} \cdot \pi \cdot d_a \cdot h_{ef}$ — ACI 318-14 Eq. (17.4.5.2)

Variables

$\tau_{k,c,uncr}$ [psi]	d_a [in.]	h_{ef} [in.]	$c_{a,min}$ [in.]	$\alpha_{overhead}$	$\tau_{k,c}$ [psi]
1,589	0.500	2.750	6.000	1.000	1,100

c_{ac} [in.]	λ_a
4.136	1.000

Calculations

c_{Na} [in.]	A_{Na} [in.^{2}]	A_{Na0} [in.^{2}]	$\psi_{ed,Na}$
5.983	143.17	143.17	1.000

$\psi_{cp,Na}$	N_{ba} [kip]
1.000	4.751

Results

N_a [kip]	ϕ_{bond}	ϕN_a [kip]	N_{ua} [kip]
4.751	0.650	3.088	1.030

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Company:	Kimley-Horn and Associates, Inc	Page:	5
Address:	111 East Broadway, 600	Specifier:	J.Goodsell
Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

3.3 Concrete Breakout Failure

$N_{cb} = \left(\frac{A_{Nc}}{A_{Nc0}}\right) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b$ — ACI 318-14 Eq. (17.4.2.1a)

$\phi N_{cb} \geq N_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$A_{Nc0} = 9 h_{ef}^2$ — ACI 318-14 Eq. (17.4.2.1c)

$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5h_{ef}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.2.5b)

$\psi_{cp,N} = MAX\left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.4.2.7b)

$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5}$ — ACI 318-14 Eq. (17.4.2.2a)

Variables

h_{ef} [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$	c_{ac} [in.]	k_c	λ_a	f'_c [psi]
2.750	6.000	1.000	4.136	17	1.000	3,000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
68.06	68.06	1.000	1.000	4.246

Results

N_{cb} [kip]	$\phi_{concrete}$	ϕN_{cb} [kip]	N_{ua} [kip]
4.246	0.650	2.760	1.030

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Company:	Kimley-Horn and Associates, Inc	Page:	6
Address:	111 East Broadway, 600	Specifier:	J.Goodsell
Phone I Fax:	(385) 420-0939 |	E-Mail:	jakegoodsell@kimley-horn.com
Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

4 Shear load

	Load V_{ua} [kip]	Capacity ϕV_n [kip]	Utilization $\beta_V = V_{ua}/\phi V_n$	Status
Steel Strength*	0.220	4.320	6	OK
Steel failure (with lever arm)*	N/A	N/A	N/A	N/A
Pryout Strength (Concrete Breakout Strength controls)**	0.220	5.945	4	OK
Concrete edge failure in direction y+**	0.220	2.773	8	OK

* highest loaded anchor **anchor group (relevant anchors)

4.1 Steel Strength

V_{sa} = ESR value refer to ICC-ES ESR-3187
$\phi V_{steel} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

Variables

$A_{se,V}$ [in.^{2}]	f_{uta} [psi]
0.20	60,000

Calculations

V_{sa} [kip]
7.200

Results

V_{sa} [kip]	ϕ_{steel}	ϕV_{sa} [kip]	V_{ua} [kip]
7.200	0.600	4.320	0.220

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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4.2 Pryout Strength (Concrete Breakout Strength controls)

$V_{cp} = k_{cp} \left[\left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b \right]$ ACI 318-14 Eq. (17.5.3.1a)

$\phi V_{cp} \geq V_{ua}$ ACI 318-14 Table 17.3.1.1

A_{Nc} see ACI 318-14, Section 17.4.2.1, Fig. R 17.4.2.1(b)

$A_{Nc0} = 9 h_{ef}^2$ ACI 318-14 Eq. (17.4.2.1c)

$\psi_{ed,N} = 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5 h_{ef}} \right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.5b)

$\psi_{cp,N} = MAX \left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5 h_{ef}}{c_{ac}} \right) \leq 1.0$ ACI 318-14 Eq. (17.4.2.7b)

$N_b = k_c \lambda_a \sqrt{f'_c} h_{ef}^{1.5}$ ACI 318-14 Eq. (17.4.2.2a)

Variables

k_{cp}	h_{ef} [in.]	$c_{a,min}$ [in.]	$\psi_{c,N}$
2	2.750	6.000	1.000

c_{ac} [in.]	k_c	λ_a	f'_c [psi]
4.136	17	1.000	3,000

Calculations

A_{Nc} [in.^{2}]	A_{Nc0} [in.^{2}]	$\psi_{ed,N}$	$\psi_{cp,N}$	N_b [kip]
68.06	68.06	1.000	1.000	4.246

Results

V_{cp} [kip]	$\phi_{concrete}$	ϕV_{cp} [kip]	V_{ua} [kip]
8.493	0.700	5.945	0.220

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Fastening point:			

4.3 Concrete edge failure in direction y+

$V_{cb} = \left(\frac{A_{Vc}}{A_{Vc0}}\right) \psi_{ed,V} \psi_{c,V} \psi_{h,V} \psi_{parallel,V} V_b$ — ACI 318-14 Eq. (17.5.2.1a)

$\phi V_{cb} \geq V_{ua}$ — ACI 318-14 Table 17.3.1.1

A_{Vc} see ACI 318-14, Section 17.5.2.1, Fig. R 17.5.2.1(b)

$A_{Vc0} = 4.5 c_{a1}^2$ — ACI 318-14 Eq. (17.5.2.1c)

$\psi_{ed,V} = 0.7 + 0.3\left(\frac{c_{a2}}{1.5c_{a1}}\right) \leq 1.0$ — ACI 318-14 Eq. (17.5.2.6b)

$\psi_{h,V} = \sqrt{\frac{1.5c_{a1}}{h_a}} \geq 1.0$ — ACI 318-14 Eq. (17.5.2.8)

$V_b = \left(7\left(\frac{l_e}{d_a}\right)^{0.2}\sqrt{d_a}\right) \lambda_a \sqrt{f_c'} c_{a1}^{1.5}$ — ACI 318-14 Eq. (17.5.2.2a)

Variables

c_{a1} [in.]	c_{a2} [in.]	$\psi_{c,V}$	h_a [in.]	l_e [in.]
6.000	6.000	1.000	8.000	2.750

λ_a	d_a [in.]	f_c' [psi]	$\psi_{parallel,V}$
1.000	0.500	3,000	1.000

Calculations

A_{Vc} [in.^{2}]	A_{Vc0} [in.^{2}]	$\psi_{ed,V}$	$\psi_{h,V}$	V_b [kip]
120.00	162.00	0.900	1.061	5.603

Results

V_{cb} [kip]	$\phi_{concrete}$	ϕV_{cb} [kip]	V_{ua} [kip]
3.962	0.700	2.773	0.220

5 Combined tension and shear loads

β_N	β_V	ζ	Utilization $\beta_{N,V}$ [%]	Status
0.373	0.079	5/3	21	OK

$\beta_{NV} = \beta_N^{\zeta} + \beta_V^{\zeta} <= 1$

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (AS 5216:2018, ETAG 001/Annex C, EOTA TR029 etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered - the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with CBFEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- Design Strengths of adhesive anchor systems are influenced by the cleaning method. Refer to the INSTRUCTIONS FOR USE given in the Evaluation Service Report for cleaning and installation instructions.
- For additional information about ACI 318 strength design provisions, please go to https://submittals.us.hilti.com/PROFISAnchorDesignGuide/
- Installation of Hilti adhesive anchor systems shall be performed by personnel trained to install Hilti adhesive anchors. Reference ACI 318-14, Section 17.8.1.

Fastening meets the design criteria!

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

7 Installation data

Anchor type and diameter: HIT-HY 200 + Rebar A 615 Gr.40 #4

Profile: -

Item number: not available (element) / 2022793 HIT-HY 200-R (adhesive)

Hole diameter in the fixture: -

Installation torque: -

Plate thickness (input): -

Hole diameter in the base material: 0.625 in.

Hole depth in the base material: 2.750 in.

Drilling method: Hammer drilled

Minimum thickness of the base material: 4.000 in.

Cleaning: Compressed air cleaning of the drilled hole according to instructions for use is required

#4 Rebar with Hilti HIT-HY 200 Safe Set System

7.1 Recommended accessories

Drilling	Cleaning	Setting
• Suitable Rotary Hammer • Properly sized drill bit	• Compressed air with required accessories to blow from the bottom of the hole • Proper diameter wire brush	• Dispenser including cassette and mixer • For deep installations, a piston plug is necessary • Torque wrench

Coordinates Anchor in.

Anchor	x	y	c_{-x}	c_{+x}	c_{-y}	c_{+y}
1	0.000	0.000	-	6.000	-	6.000

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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Design:	City Fuel Yard	Date:	4/30/2020
Fastening point:			

8 Remarks; Your Cooperation Duties

- Any and all information and data contained in the Software concern solely the use of Hilti products and are based on the principles, formulas and security regulations in accordance with Hilti's technical directions and operating, mounting and assembly instructions, etc., that must be strictly complied with by the user. All figures contained therein are average figures, and therefore use-specific tests are to be conducted prior to using the relevant Hilti product. The results of the calculations carried out by means of the Software are based essentially on the data you put in. Therefore, you bear the sole responsibility for the absence of errors, the completeness and the relevance of the data to be put in by you. Moreover, you bear sole responsibility for having the results of the calculation checked and cleared by an expert, particularly with regard to compliance with applicable norms and permits, prior to using them for your specific facility. The Software serves only as an aid to interpret norms and permits without any guarantee as to the absence of errors, the correctness and the relevance of the results or suitability for a specific application.
- You must take all necessary and reasonable steps to prevent or limit damage caused by the Software. In particular, you must arrange for the regular backup of programs and data and, if applicable, carry out the updates of the Software offered by Hilti on a regular basis. If you do not use the AutoUpdate function of the Software, you must ensure that you are using the current and thus up-to-date version of the Software in each case by carrying out manual updates via the Hilti Website. Hilti will not be liable for consequences, such as the recovery of lost or damaged data or programs, arising from a culpable breach of duty by you.

Input data and results must be checked for conformity with the existing conditions and for plausibility!
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4. APPENDIX

4.1 WIND LOADS

Hazards by Location

Search Information

Address: City fuel yard buckeye

Coordinates: 33.3703197, -112.5837766

Elevation: 869 ft

Timestamp: 2020-03-12T15:52:24.575Z

Hazard Type: Wind



ASCE 7-16

MRI 10-Year	70 mph
MRI 25-Year	77 mph
MRI 50-Year	82 mph
MRI 100-Year	87 mph
Risk Category I	95 mph
Risk Category II	101 mph
Risk Category III	108 mph
Risk Category IV	112 mph

ASCE 7-10

MRI 10-Year	76 mph
MRI 25-Year	84 mph
MRI 50-Year	90 mph
MRI 100-Year	96 mph
Risk Category I	105 mph
Risk Category II	115 mph
Risk Category III-IV	120 mph

ASCE 7-05

ASCE 7-05 Wind Speed	90 mph

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are interpolated from data provided in ASCE 7 and rounded up to the nearest whole integer. Per ASCE 7, islands and coastal areas outside the last contour should use the last wind speed contour of the coastal area – in some cases, this website will extrapolate past the last wind speed contour and therefore, provide a wind speed that is slightly higher. NOTE: For queries near wind-borne debris region boundaries, the resulting determination is sensitive to rounding which may affect whether or not it is considered to be within a wind-borne debris region.

Mountainous terrain, gorges, ocean promontories, and special wind regions shall be examined for unusual wind conditions.

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Emergency Backup Generators City wide
Contract No. 2021036
LightDay Solar, Inc.

this website does not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the report.

4.2 SEISMIC LOADS

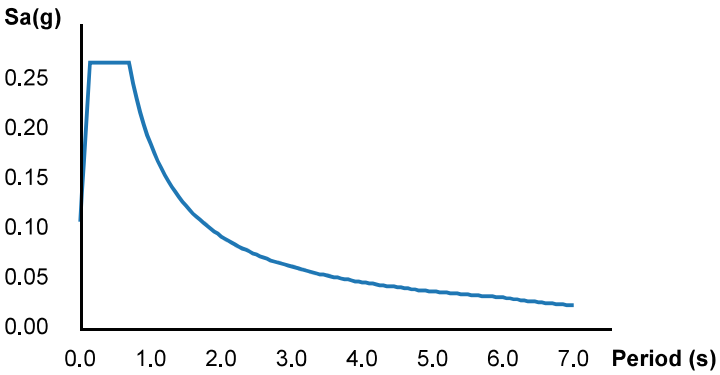
Hazards by Location

Search Information

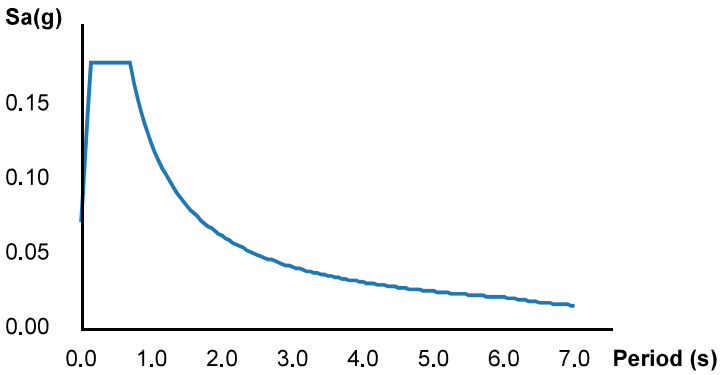
Address:	City fuel yard buckeye
Coordinates:	33.3703197, -112.5837766
Elevation:	869 ft
Timestamp:	2020-03-12T15:51:28.346Z
Hazard Type:	Seismic
Reference Document:	ASCE7-16
Risk Category:	II
Site Class:	D-default



MCER Horizontal Response Spectrum



Design Horizontal Response Spectrum



Basic Parameters

Name	Value	Description
S_S	0.167	MCE_R ground motion (period=0.2s)
S_1	0.077	MCE_R ground motion (period=1.0s)
S_{MS}	0.267	Site-modified spectral acceleration value
S_{M1}	0.185	Site-modified spectral acceleration value
S_{DS}	0.178	Numeric seismic design value at 0.2s SA
S_{D1}	0.123	Numeric seismic design value at 1.0s SA

Additional Information

Name	Value	Description
SDC	B	Seismic design category
F_a	1.6	Site amplification factor at 0.2s
F_v	2.4	Site amplification factor at 1.0s

CR_S	0.937	Coefficient of risk (0.2s)
CR_1	0.944	Coefficient of risk (1.0s)
PGA	0.073	MCE_G peak ground acceleration
F_{PGA}	1.6	Site amplification factor at PGA
PGA_M	0.117	Site modified peak ground acceleration
T_L	6	Long-period transition period (s)
SsRT	0.167	Probabilistic risk-targeted ground motion (0.2s)
SsUH	0.178	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.077	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.082	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGAd	0.5	Factored deterministic acceleration value (PGA)

The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.

Disclaimer

Hazard loads are provided by the U.S. Geological Survey Seismic Design Web Services.

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4.3 GENERATOR SPECIFICATIONS

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

Standby Power Rating
30 kW, 38 kVA, 60 Hz

Prime Power Rating*
27 kW, 34 kVA, 60 Hz

ISO 9001:2008

USA ENGINEERED & BUILT* *Assembled in the USA using domestic and foreign parts

*EPA Certified Prime ratings are not available in the US or its Territories

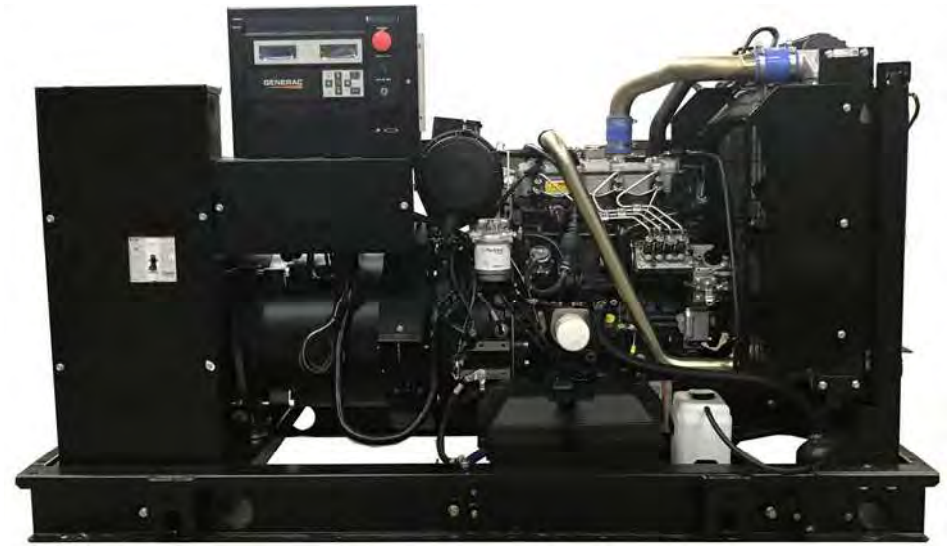


Image used for illustration purposes only

Codes and Standards

Not all codes and standards apply to all configurations. Contact factory for details.

- UL2200, UL508, UL489, UL142
- CSA C22.2
- BS5514 and DIN 6271
- SAE J1349
- NFPA 37, 70, 99, 110
- NEC700, 701, 702, 708
- ISO 3046, 7637, 8528, 9001
- NEMA ICS10, MG1, 250, ICS6, AB1
- ANSI C62.41

Powering Ahead

For over 50 years, Generac has provided innovative design and superior manufacturing.

Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application.

Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial applications under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

SPEC SHEET

1 of 6

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

STANDARD FEATURES

ENGINE SYSTEM

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel Flexible Exhaust Connection
- Factory Filled Oil and Coolant
- Radiator Duct Adapter (Open Set Only)
- Critical Silencer (Enclosed Unit Only)
- Engine Coolant Heater

Fuel System

- Fuel Lockoff Solenoid
- Primary Fuel Filter

Cooling System

- Closed Coolant Recovery System
- UV/Ozone Resistant Hoses
- Factory-Installed Radiator
- Radiator Drain Extension
- 50/50 Ethylene Glycol Antifreeze

Electrical System

- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor

ALTERNATOR SYSTEM

- UL2200 GENprotect™
- Class H Insulation Material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearing
- Rotor Dynamically Spin Balanced
- Amortisseur Winding (3-Phase Only)
- Full Load Capacity Alternator
- Protective Thermal Switch

GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Separation of Circuits - Multiple Breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby Rated Units)
- 1 Year Limited Warranty (Prime Rated Units)
- Silencer Mounted in the Discharge Hood (Enclosed Unit Only)

ENCLOSURE (If Selected)

- Rust-Proof Fasteners with Nylon Washers to Protect Finish
- High Performance Sound-Absorbing Material (Sound Attenuation Enclosures)
- Gasketed Doors
- Stamped Air-Intake Louvers
- Upward Facing Discharge Hoods (Radiator and Exhaust)
- Stainless Steel Lift Off Door Hinges
- Stainless Steel Lockable Handles
- RhinoCoat™ - Textured Polyester Powder Coat Paint

FUEL TANKS (If Selected)

- UL 142/ULC S601
- Double Wall
- Normal and Emergency Vents
- Sloped Top
- Sloped Bottom
- Factory Pressure Tested
- Rupture Basin Alarm
- Fuel Level
- Check Valve In Supply and Return Lines
- RhinoCoat™- Textured Polyester Powder Coat Paint
- Stainless Steel Hardware

CONTROL SYSTEM



Digital H Control Panel- Dual 4x20 Display

Program Functions

- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable Logic Controller
- RS-232/485 Communications
- All Phase Sensing Digital Voltage Regulator
- 2-Wire Start Capability
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/Sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus® Protocol
- Predictive Maintenance Algorithm
- Sealed Boards
- Password Parameter Adjustment Protection
- Single Point Ground
- 16 Channel Remote Trending
- 0.2 msec High Speed Remote Trending
- Alarm Information Automatically Annunciated on the Display

Full System Status Display

- Power Output (kW)
- Power Factor
- kW Hours, Total, and Last Run
- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency

Alarms and Warnings

- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Overspeed
- Battery Voltage
- Alarms and Warnings Time and Date Stamped
- Snap Shots of Key Operation Parameters During Alarms and Warnings
- Alarms and Warnings Spelled Out (No Alarm Codes)

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

412

SPEC SHEET

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

CONFIGURABLE OPTIONS

ENGINE SYSTEM

- ○ Oil Heater
- ○ Critical Silencer (Open Set Only)
- ○ Radiator Stone Guard
- ○ Level 1 Fan and Belt Guards (Open Set Only)

FUEL SYSTEM

- ○ NPT Flexible Fuel Line

ELECTRICAL SYSTEM

- ○ 10A UL Listed Battery Charger
- ○ Battery Warmer

ALTERNATOR SYSTEM

- ○ Alternator Upsizing
- ○ Anti-Condensation Heater
- ○ Tropical Coating
- ○ Permanent Magnet Excitation

GENERATOR SET

- ○ Extended Factory Testing
- ○ 8 Position Load Center
- ○ Pad Vibration Isolation

CIRCUIT BREAKER OPTIONS

- ○ Main Line Circuit Breaker
- ○ 2nd Main Line Circuit Breaker
- ○ Shunt Trip and Auxiliary Contact
- ○ Electronic Trip Breakers

ENCLOSURE

- ○ Weather Protected Enclosure
- ○ Level 1 Sound Attenuation
- ○ Level 2 Sound Attenuation
- ○ Level 2 Sound Attenuation with Motorized Dampers
- ○ Steel Enclosure
- ○ Aluminum Enclosure
- ○ Up to 200 MPH Wind Load Rating (Contact Factory for Availability)
- ○ AC/DC Enclosure Lighting Kit
- ○ Door Alarm Switch
- ○ Enclosure Heater
- ○ Damper Alarm Contacts

WARRANTY (Standby Gensets Only)

- ○ 2 Year Extended Limited Warranty
- ○ 5 Year Limited Warranty
- ○ 5 Year Extended Limited Warranty
- ○ 7 Year Extended Limited Warranty
- ○ 10 Year Extended Limited Warranty

CONTROL SYSTEM

- ○ NFPA 110 Compliant 21-Light Remote Annunciator
- ○ Remote Relay Assembly (8 or 16)
- ○ Oil Temperature Indication and Alarm
- ○ Remote E-Stop (Break Glass-Type, Surface Mount)
- ○ Remote E-Stop (Red Mushroom-Type, Surface Mount)
- ○ Remote E-Stop (Red Mushroom-Type, Flush Mount)
- ○ 100 dB Alarm Horn
- ○ Ground Fault Annunciation
- ○ 120V GFCI and 240V Outlets
- ○ Remote Communication - Modem
- ○ 10A Engine Run Relay

FUEL TANKS (Size On Last Page)

- ○ 8 in (203.2 mm) Fill Extension
- ○ 13 in (330.2 mm) Fill Extension
- ○ 19 in (482.6 mm) Fill Extension
- ○ Overfill Protection Valve
- ○ 5 Gallon Spill Box Return Hose
- ○ 5 Gallon Spill Box
- ○ Tank Risers
- ○ Fuel Level Switch and Alarm
- ○ 12' Vent System
- ○ Fire Rated Stainless Steel Fuel Hose

ENGINEERED OPTIONS

ENGINE SYSTEM

- ○ Coolant Heater Isolation Ball Valves
- ○ Fluid Containment Pan

CONTROL SYSTEM

- ○ Spare Inputs (x4) / Outputs (x4)
- ○ Battery Disconnect Switch

ALTERNATOR SYSTEM

- ○ 3rd Breaker System

GENERATOR SET

- ○ Special Testing

FUEL TANKS

- ○ UL2085 Tank
- ○ Stainless Steel Tanks
- ○ Special Fuel Tanks
- ○ Vent Extensions

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General

Make	Perkins
EPA Emissions Compliance	Stationary Emergency
EPA Emissions Reference	See Emission Data Sheet
Cylinder #	4
Type	In-Line
Displacement - in^3 (L)	135 (2.22)
Bore - in (mm)	3.3 (84)
Stroke - in (mm)	3.9 (100)
Compression Ratio	23.3:1
Intake Air Method	Turbocharged
Cylinder Head	Cast Iron
Piston Type	Aluminum
Crankshaft Type	Forged Steel

Engine Governing

Governor	Electronic Isochronous
Frequency Regulation (Steady State)	±0.5%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full-Flow
Crankcase Capacity - qt (L)	11.2 (10.6)

Cooling System

Cooling System Type	Closed Recovery
Water Pump Type	Pre-Lubed, Self Sealing
Fan Type	Pusher
Fan Speed - RPM	1,980
Fan Diameter - in (mm)	18 (457)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel #2
Fuel Specifications	ASTM
Fuel Filtering (Microns)	5
Fuel Inject Pump	Distribution Injection Pump
Fuel Pump Type	Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line - in (mm)	0.31 (7.9) ID
Fuel Return Line - in (mm)	0.2 (4.8) ID

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	See Battery Index 0161970SBY
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	K0035124Y21
Poles	4
Field Type	Revolving
Insulation Class - Rotor	H
Insulation Class - Stator	H
Total Harmonic Distortion	<5% (3-Phase)
Telephone Interference Factor (TIF)	< 50

Standard Excitation	Brushless
Bearings	Single Sealed
Coupling	Direct via Flexible Disc
Load Capacity - Standby	100%
Prototype Short Circuit Test	Yes
Voltage Regulator Type	Digital
Number of Sensed Phases	All
Regulation Accuracy (Steady State)	±0.25%

SPEC SHEET

4 of 6

SD030 | 2.2L | 30 kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

OPERATING DATA

POWER RATINGS

		Standby
Single-Phase 120/240 VAC @1.0pf	30 kW	Amps: 125
Three-Phase 120/208 VAC @0.8pf	30 kW	Amps: 104
Three-Phase 120/240 VAC @0.8pf	30 kW	Amps: 90
Three-Phase 277/480 VAC @0.8pf	30 kW	Amps: 45
Three-Phase 346/600 VAC @0.8pf	30 kW	Amps: 36

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip

277/480 VAC	30%	208/240 VAC	30%
K0035124Y21	61	K0035124Y21	46
K0040124Y21	76	K0040124Y21	58
K0050124Y21	98	K0050124Y21	75

FUEL CONSUMPTION RATES*

Fuel Pump Lift- ft (m)
3 (1)

Total Fuel Pump Flow (Combustion + Return) - gph (Lph)
16.6 (63)

Diesel - gph (Lph)

Percent Load	Standby
25%	1.0 (3.7)
50%	1.4 (5.2)
75%	2.0 (7.5)
100%	2.8 (10.5)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

		Standby
Coolant Flow	gpm (Lpm)	14.9 (56.2)
Coolant System Capacity	gal (L)	2.5 (9.5)
Heat Rejection to Coolant	BTU/hr (kW)	128,638 (136)
Inlet Air	scfm (m^3/hr)	2,800 (4,757)
Maximum Operating Ambient Temperature	°F (°C)	122 (50)
Maximum Operating Ambient Temperature (Before Derate)	See Bulletin No. 0199280SSD	
Maximum Radiator Backpressure	in H_2O (kPa)	0.5 (0.12)

COMBUSTION AIR REQUIREMENTS

	Standby
Flow at Rated Power scfm (m^3/min)	88 (2.5)

ENGINE

		Standby
Rated Engine Speed	RPM	1,800
Horsepower at Rated kW**	hp	49
Piston Speed	ft/min (m/min)	1,181 (360)
BMEP	psi (kPa)	159 (1,096)

EXHAUST

		Standby
Exhaust Flow (Rated Output)	scfm (m^3/min)	296.6 (8.4)
Max. Allowable Backpressure (Post Turbocharger)	inHg (kPa)	1.5 (5.1)
Exhaust Temp (Rated Output)	°F (°C)	892 (478)

** Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions.
Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528, and DIN6271 standards.
Standby - See Bulletin 0187500SSB
Prime - See Bulletin 0187510SSB

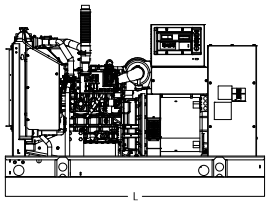
SD030 | 2.2L | 30 kW

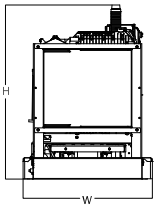
INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC | INDUSTRIAL POWER

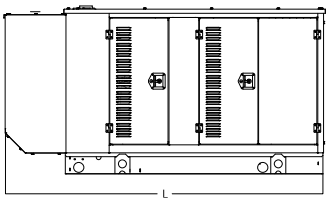
DIMENSIONS AND WEIGHTS*

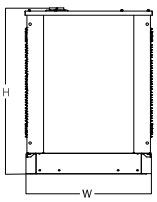




OPEN SET (Includes Exhaust Flex)

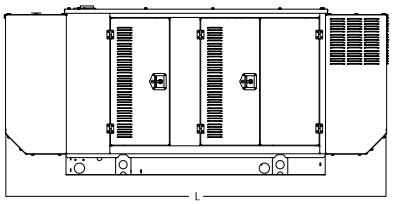
Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg)
No Tank	-	76.0 (1,930) x 37.4 (950) x 44.8 (1,138)	1,641 (745)
19	54 (204)	76.0 (1,930) x 37.4 (950) x 57.8 (1,468)	2,121 (963)
47	132 (501)	76.0 (1,930) x 37.4 (950) x 69.8 (1,773)	2,351 (1,067)
75	211 (799)	76.0 (1,930) x 37.4 (950) x 81.8 (2,078)	2,560 (1,162)
107	300 (1,136)	92.9 (2,360) x 37.4 (950) x 81.8 (2,078)	2,623 (1,190)

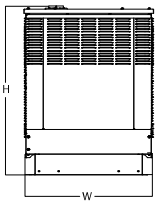




WEATHER PROTECTED ENCLOSURE

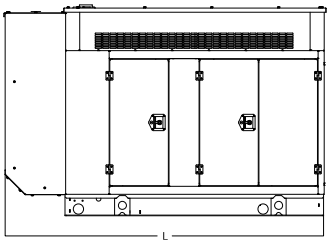
Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	94.8 (2,409) x 38.0 (965) x 49.5 (1,258)	372 (170)	241 (110)
19	54 (204)	94.8 (2,409) x 38.0 (965) x 62.5 (1,588)		
47	132 (501)	94.8 (2,409) x 38.0 (965) x 74.5 (1,893)		
75	211 (799)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	94.8 (2,409) x 38.0 (965) x 86.5 (2,198)		

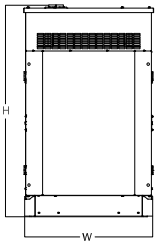




LEVEL 1 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	112.5 (2,857) x 38.0 (965) x 49.5 (1,258)	505 (230)	338 (154)
19	54 (204)	112.5 (2,857) x 38.0 (965) x 62.5 (1,582)		
47	132 (501)	112.5 (2,857) x 38.0 (965) x 74.5 (1,893)		
75	211 (799)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		
107	300 (1,136)	112.5 (2,857) x 38.0 (965) x 86.5 (2,198)		





LEVEL 2 ACOUSTIC ENCLOSURE

Run Time - Hours	Usable Capacity - Gal (L)	L x W x H - in (mm)	Weight - lbs (kg) Enclosure Only	
			Steel	Aluminum
No Tank	-	94.8 (2,407) x 38.0 (965) x 61.1 (1,551)	510 (232)	341 (155)
19	54 (204)	94.8 (2,407) x 38.0 (965) x 74.1 (1,881)		
47	132 (501)	94.8 (2,407) x 38.0 (965) x 86.1 (2,186)		
75	211 (799)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		
107	300 (1,136)	94.8 (2,407) x 38.0 (965) x 98.1 (2,491)		

(2351 lb set and tank) + (Diesel weight 7 lbs/gallon x 132 gallons) + (510 lbs enclosure weight) = **3785 LBs total**

* All measurements are approximate and for estimation purposes only. Specification characteristics may change without notic installation drawings.

SPEC SHEET

6 of 6

Emergency Backup Generators Citywide
Contract No. 2021036
LightDay Solar, Inc.

EXHIBIT C
Scope of Work

Scope of Work to include purchase and installation of Emergency Generators at six locations throughout the city. The work includes raceways, wire and cable, panel boards, generator transfer switchgear grounding and power system/arc flash analysis to make a complete working system, more particularly defined in Exhibit B, Plans & Specifications attached hereto.

EXHIBIT D
Bid Form

SECTION 300
BID FORMS

BID

IFB No.	2021036
Project Name:	Emergency Backup Generators Citywide
Due Date:	June 7, 2021, no later than 3:00 p.m., MST
Bid from:	Lightday Solar Inc. (Name of Firm)
To:	City of Buckeye

The following bid is made for construction services for the City of Buckeye, Arizona, in accordance with Construction Documents. The undersigned certifies that the Construction Documents, as well as the proposed construction site and conditions affecting the Work have been carefully examined; that the amount and nature of the Work to be done is thoroughly understood; and that at no time will misunderstanding of the drawings, specifications, or conditions to be overcome be pleaded.

The undersigned certifies that he or his firm is currently licensed under the provisions of ARS Sections 32-1151 and 32-1169. The undersigned further certifies that he or his firm has a privilege license pursuant to ARS Section 42-5005.

The undersigned has read Section 2, "Instructions to Bidders", paragraph "Sales and Use Tax" and understands that all sales and use taxes applicable to this project are included in all bid prices. The undersigned has read the Construction Contract between the City of Buckeye and Contractor, and will execute said agreement if awarded the Contract. Any exceptions to the terms and conditions have been stated in writing and submitted on a separate sheet with this bid. The undersigned understands that any exceptions taken to the Construction Contract that are not accepted and/or approved by the City may be a basis for rejection of the Bid as nonresponsive.

RECEIPT BY THE UNDERSIGNED OF THE FOLLOWING AMENDMENTS IS HEREBY ACKNOWLEDGED:

AMENDMENT NUMBER: 1	DATED: 05/18/2021
AMENDMENT NUMBER: 2	DATED: 05/19/2021
AMENDMENT NUMBER: 3	DATED: 05/24/2021
AMENDMENT NUMBER:	DATED:

BASE BID:

The undersigned proposes to complete all of the Work in accordance with said Construction Documents, plans, specification and all associated amendments for the sum of:
One Million, and two hundred ninety eight thousands, and five hundreds ninety two Dollars (no cent).
Amount shall be shown in both words and figures. In case of discrepancy, the amount shown in words shall govern.)

Item No.	Item Description	Unit	Quantity	Amount
1	Emergency backup Generator location: Fuel Yard – 23454 W. Hwy MC85 Buckeye, AZ 85326	1	EA	$ 72,275.00
2	Emergency backup Generator location: City Hall – 530 E. Monroe Avenue Buckeye, AZ 85326	1	EA	$ 254,469.00
3	Emergency backup Generator location: Community Center – 201 E. Centre Avenue Buckeye, AZ 85326	1	EA	$ 225,780.00
4	Emergency backup Generator location: Coyo te Branch Library – 21699 W. Yuma Road, #116 Buckeye, AZ 85326	1	EA	$ 289,115.00
5	Emergency backup Generator location: Dr. Saide Rec Center – 1003 E. Eason Avenue Buckeye, AZ 85326	1	EA	$ 221,746.00
6	Standby Generator location: Fleet Management Building – 415 E. Arizona Eastern Buckeye, AZ 85326	1	EA	$ 85,207.00
		SUB TOTAL		$ 1,148,592.00
	GENERAL CONDITIONS			
7	Owner's Contingency	LS	1	$150,000.00
		SUB TOTAL		$150,000.00
			TOTAL PROJECT COST	$ 1,298,592.00

Submitted by:	Lightday Solar Inc.
SIGNATURE:	Hyeonmoo Lee
NAME:	Hyeonmoo Lee
TITLE:	CEO
Principal Office:	
Address:	5861 S. Kyrene RD #9 Tempe, AZ 85283
Telephone:	480-921-3977
Facsimile:	480-921-3977

M Hyeonmoo Lee being duly sworn deposes and says that he/she is the CEO of Lightday Solar Inc Contractor(s), and that answers to the foregoing questions and all statements therein contained are true and correct.

Subscribed and sworn before me this 7 day of June, 2021

Notary Public:

My Commission Expires: 11 day of December, 2024

ANGELICA VIGIL
Notary Public - Arizona
Maricopa County
Commission # 593247
My Commission Expires December 11, 2024

ATTACHMENT 1

SURETY BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, Lightday Solar, Inc.
(Contractor's Name)

as Principal, and The Ohio Casualty Insurance Company, as Surety, are hereby held and firmly bound into City of Buckeye as OWNER in the penal sum of 10% of Bid Amount for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns.

Signed this 7th day of June, 2021.

The Condition of the above obligation is such that whereas the Principal has submitted a certain BID, attached hereto and hereby made a part hereof to enter into a contract in writing, for IFB No. 2021036 – Emergency Backup Generators.

Now, therefore, if the obligee accepts the proposal of the principal and the principal enters into a contract with the obligee in accordance with the terms of the proposal and gives the bonds and certificates of insurance as specified in the standard specifications with good and sufficient surety for the faithful performance of the contract and for the prompt payment of labor and materials furnished in the prosecution of the contract, or in the event of the failure of the principal to enter into the contract and give the bonds and certificates of insurance, if the principal pays to the obligee the difference not to exceed the penalty of the bond between the amount specified in the proposal and such larger amount for which the obligee may in good faith contract with another party to perform the work covered by the proposal then this obligation is void. Otherwise it remains in full force and effect provided, however, that this bond is executed pursuant to the provisions of § 34-201, Arizona Revised Statutes, and all liabilities on this bond shall be determined in accordance with the provisions of the section to the extent as if it were copied at length herein.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

Lightday Solar, Inc. (L.S.)
(Principal)
By: _____

The Ohio Casualty Insurance Company
(Name of Surety)
By: _____
(Signature) Taylor J. Wilstead
Attorney-In-Fact

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

Certificate No: **8204921-969690**

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Ohio Casualty Insurance Company is a corporation duly organized under the laws of the State of New Hampshire, that Liberty Mutual Insurance Company is a corporation duly organized under the laws of the State of Massachusetts, and West American Insurance Company is a corporation duly organized under the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Alec Kleiner, Christopher D. Morrow; Taylor J. Wilstead

all of the city of Mesa state of AZ each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 25th day of February, 2021.

Liberty Mutual Insurance Company
The Ohio Casualty Insurance Company
West American Insurance Company

By: _____
David M. Carey, Assistant Secretary

State of PENNSYLVANIA
County of MONTGOMERY ss

On this 25th day of February, 2021 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The Ohio Casualty Company, and West American Insurance Company, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.

Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 26, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: _____
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Authorizations of The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company which resolutions are now in full force and effect reading as follows:

ARTICLE IV – OFFICERS: Section 12. Power of Attorney.
Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and execution of any such instruments and to attach thereto the seal of the Corporation. When so executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

ARTICLE XIII – Execution of Contracts: Section 5. Surety Bonds and Undertakings.
Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

Certificate of Designation – The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization – By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, The Ohio Casualty Insurance Company, Liberty Mutual Insurance Company, and West American Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 7th day of June, 2021.

By: _____
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

ATTACHMENT 3

CITY OF BUCKEYE, ARIZONA
CONTRACTOR'S QUALIFICATION STATEMENT

Name of Firm: Lightday Solar Inc.

Address: 5861 S. Kyrene Rd #9

City, State, Zip Code: Tempe, AZ 85283

Telephone No: 480-921-3977

Facsimile No: 480-921-3977

The undersigned certifies under oath the truth and correctness of all statements and of all answers to questions made hereinafter.

(1) How many years has your firm been in business as a general contractor? 13 years

(1.1) How many years has your firm been in business as a general contractor in the State of Arizona? 13 years

(2) How many years has your firm been in business under its present business name? 13 years

(3) List states and categories in which your firm is legally qualified to do business:

State	Category(ies)
Arizona	Master Electric
California	Master Electric
Texas	Master Electric

(4) List the percentage of work normally accomplished with your own forces: 90

(4.1) Will you need to expand your work force for this project? Yes

(4.2) Present number of personnel employed: 9

(5) Have you ever failed to complete any project awarded to your firm? If so, explain circumstances on separate sheet. (Check One) [✓] No

[ ] Yes, See attached explanation

(5.1) Within the past five (5) years, has any officer or partner of your firm ever been an officer or partner of another firm that failed to complete any project awarded to it?

(Check one) [✓] No

[ ] Yes, see attached explanation.

(6) On a separate sheet, List separately all construction projects greater than $300,000.00 awarded, in-progress, or completed in the past five (5) years by your firm. Include project, owner (address and telephone number), Design Professional, contract amount, percent complete, and scheduled completion date.

(7) On a separate sheet, list the construction experience and provide resumes of key individuals of your firm. Include the Project Manager, Superintendent, and Assistant Superintendent for this project; and identify their previous levels of responsibility for those projects listed in Paragraph 6.

(8) References: (Bank, Trade, and Professional) Provide name, address, and telephone number. List three.

1. Wells Fargo, 5120 S. Lakeshore Dr. Tempe, AZ 85282 85282
2. WESCO Distribution, Inc, 3425 E Van Buren St Ste 140 | Phoenix, AZ. 85008, 602-643-1516
3. Sun Engineering LLC, 600 W Hatcher Rd # 200, Phoenix, AZ 85021,(602) 997-6800

(9) Name of bonding company and name and phone number of agent.

Bonding Solutions (Company Name), Taylor Wilstead (Contact Name), (480) 835.6745 (Phone Number)

(10) Scheduling techniques to be employed by your firm to expedite construction.
Line of Balance Scheduling method is the best choice for this project.

(11) List your Arizona Contractor's License Number(s) and category.

AZ ROC# 251678 CATEGORY: CR-11

(12) List your DUNN or CAGE Number: 927883962

(13) Is your Firm qualified to participate in Federal Projects: YES: ☑ NO: _____

(14) Is your Firm familiar with requirements for Davis Bacon Payroll? YES: ☑ NO: _____

Name of Organization: Lightday Solar Inc.

(Check One) Corporation ✓ Partnership ___ Individual ___
Joint Venture ___ Other ___

Submitted by:
SIGNATURE: [signature]

NAME: Hyeonmoo Lee

TITLE: CEO

Principal Office:

Address: 5861 S. Kyrene RD #9
Tempe, AZ 85283

Telephone: 480-921-3977

Facsimile: 480-921-3977

Email: Sales @lightdaysolar.com

M Hyeonmoo Lee being duly sworn deposes and says that he/she is the CEO of Lightday Solar Inc Contractor(s), and that answers to the foregoing questions and all statements therein contained are true and correct.

Subscribed and sworn before me this 7 day of June, 2021

Notary Public: [signature]

My Commission Expires: 11 day of December, 2024

ANGELICA VIGIL
Notary Public - Arizona
Maricopa County
Commission # 593247
My Commission Expires December 11, 2024

List of Contruction over $300,000							
Project No.	Project Name	Project Manager	Buyer	Descriptions	Location	Date	Duration
1	Installation of Solar PV Systems	Hyeonmoo Lee	State of Arizona	Installation of Solar PV Systems in Various Building owned by State of Arizona	State-Wide	Feb, 2021	Current
2	Installation of 22kW Battery Chargering Stations and Ballards	Hyeonmoo Lee	City of Phoenix	Installation of 22kW Battery Charging Stations and Ballards in Sky Habor Airport.	Phoenix, AZ	Sep, 2019	8 Months
3	Installation of LED Lighting Fxitures in Multi Buildings in National Guard Airforce	Hyeonmoo Lee	Department of Emergency and Millitary Affairs	Installation of LED Lighing Fixtures and its Control System in 3 Buildings in 162nd Airforce in Tucson, AZ	Tucson, AZ	Jan, 2019	3 Months

List of Contruction over $300,000						
Project No.	Buyer's Address	Buyer's Phone #	Percent Complete	Contract Amount	Scheduled Completion Date	Design Professional
1	Dept of Administration, General Service Division, 100N. 15th Ave, Suite 103, Phoenix, AZ 85007	(602) 542-1718	Not yet assigned projects	N/A	Dec-22	Sun Engineering
2	City of Phoenix, Department of Aviation, 500 S. 24th St, Phoenix, AZ 85034	602-273-3488	100	$628,772.42	Apr, 2020	City of Phoenix
3	Department of Emergency and Millitary Affairs,5645 E, Mcdowell Rd, Phoenix, AZ 85008	602-267-2763	100	$497,035.00	Mar, 2019	DEMA

Construction Experiences						
Project Name	Project Manager	Buyer	Descriptions	Location	Date	Duration
Installation of Solar PV Systems	Hyeonmoo Lee	State of Arizona	Installation of Solar PV Systems in various building owned by State of Arizona	Stage Wide	Feb, 2021	Current
Electrical Upgrade	Hyeonmoo Lee	Department of Emergency and Millitary Affairs	Electrical upgrades in Training Center	Marana, AZ	May, 2021	Current
Installation of a Video Suveillance Camera System in Hospitals	Hyeonmoo Lee	Navajo Nation	Installation of Digital Videon Surveillance System in Pinion Health Center	Pinion, AZ	Nov, 2019	1 Month
Installation of 22kW Battery Charging Stations and Ballards	Hyeonmoo Lee	City of Phoenix	Installation of 22kW Battery Charging Stations and Ballards in Sky Habor Airport.	Phoenix, AZ	Sep, 2019	7 Months
Electrical Upgrade	Hyeonmoo Lee	Navajo Nation	Retrofit of Existing Light Fixtures to LED and Diagonosis and repair of electri issues	Chiney, AZ	Nov, 2019	1 week
Installation of LED Lighting Fxitures in Multi Building in National Guard Airforce	Hyeonmoo Lee	Department of Emergency and Millitary Affairs	Installation of LED lighing fixtures and its control system in 3 buildings in 162nd airforce in Tucson, AZ	Tucson, AZ	Jan, 2019	3 Months

Construction Experiences						
Mutiple SES Upgrades	Hyeonmoo Lee	UMOM New Day Centers, Inc.	Removal of Existing SES and Panelboards and installation of New SES and panelboards	Phoenix, AZ	Jun, 2018	2 Months
LED lighting Upgrades in 5 Grocery Building	Hyeonmoo Lee	Los Altos	LED lighting retrofit	Phoenix, AZ	Dec, 2017	2 Months
LED lighting Upgrades in 2 Grocery Building	Hyeonmoo Lee	Los Altos	LED lighting retrofit	Phoenix, AZ	Apr, 2017	1 Month
400kW Solar PV Carport	Hyeonmoo Lee	Grant Inn	Installation of 400kW Solar PV system on Carport structure and on the flat roof.	Tucson, AZ	Dec, 2012	4 Months

Hyeonmoo Lee

5861 S. Kyrene Rd. STE 9, Tempe, AZ 85283
Sales@lightdaysolar.com
(480) 921-3977

Professional Summary

10 years of experience in Solar PV Systems, Off-Grid Battery Solar PV System, Lighting Retrofit, Energy Consultant, Energy Audit, UPS, LED Lighting Retrofit, Electrical Preventive Maintenance, CCTV, Electrical Preventive Maintenance, Commercial Electrical Works. Commercial & Residential SES Installation, Upgrade & Replacement

Skill

eQUEST 3-65 Analysis, Energy Pro6, Solar PV System Design, Electrical Contractor, Word**,** Excel, Lighting Design. Lighting Power Management, PowerPoint, Adobe Photoshop, Adobe Illustrator, Sketchup 3D.

Work Experience

CEO and Founder 2008 - Current
LightDay Solar Inc. - Tempe, AZ
Developed residential and commercial construction documents for high end solar construction throughout Arizona. Completed over 2 MW of solar PV system layouts, design, and electrical engineering. Commercial LED Lighting Installation and Retrofit, Battery Backup System Installation, Residential EV Charger Installation, APS, SRP Trade Allies.

President and Founder 2006-2009
First DVR Security System
Accomplishments: Successfully integrate CCTV surveillance into business entities

President and Founder 2000-2006
GeneTech Bio Sciences, Inc., AZ
I established GeneTech Biosciences LLC, that provides custom oligonucleotide synthesis, gene synthesis, and DNA sequencing services.

Postdoctoral Scientist 1998-2000
Department of Plant Biology, Arizona State University, Tempe, AZ.

Postdoctoral Scientist 1997-1998
Department of Molecular Genetics and Cell Biology, The University of Chicago, Chicago, IL

Postdoctoral Scientist, 1996-1997
Department of Plant Biology, Arizona State University, Tempe, AZ

Graduate Research Associate, 1991-1995
Arizona State University, Tempe, AZ.

Education

Ph.D. Department of Molecular and Cellular Biology, Arizona State University, Tempe, AZ	1996
Master of Science, University of Kansas	1992
Certificaton for SEIA	2009
Certification From OutBack Power in NABCEP PV Installation	2014
Certification from Edison in 2013 Nonresidential Standards Essentials for Energy Consultants	2016
Certification from Edision in Beginning EnergyPro 6 Nonresidential.	2016
Certification for Tesla home charging station Installation	2017
Certification for Fronius authorized service provider	2016

ATTACHMENT 2

SUBCONTRACTOR LIST FORM

This attachment to the Bid Form must be submitted in a sealed envelope along with the Bid Form. Each envelope shall bear the name of the Contractor making the submittal with identification of contents contained therein. The Contractor must list below the names of all qualified subcontractors or suppliers he will employ for the various portions of the Work indicated. It is the responsibility of the General Contractor to ascertain that all subcontractors for this project meet the requirements of applicable state statutes. The Contractor may list himself to perform one or more of the listed categories of work for which he has any requisite state licenses when required. In this case, all personnel performing such work at the site shall be carried on his own payroll. If equipment is leased with operators, the operators need not be carried on the Contractor's payroll. List only a single name for each listing. List names only for base bid as per your bid. Lists submitted by unsuccessful bidders will be returned unopened if requested.

DIVISION	SUBCONTRACTOR	LICENSE NUMBER	D&B NUMBER
Block Wall & Gate	3 D Masonry LLC	#250270	851581068
Concrete Pad	Mass AZ Inc.	#323156	
Natural Gas Piping	RP Gas Piping LLC	#232274, 261487	

Respectfully Submitted,

Lightday Solar Inc.

(Name of Firm)

SOLICITATION ADDENDUM
IFB NO. 2021036
CITY OF BUCKEYE
CONSTRUCTION & CONTRACTING DIVISION
623.349.6173

ADDENDUM NO. 1

NOTE: Attach to Original Invitation for Bid. However, if Bid has already been returned, complete this Addendum and return for attachment to your Bid by **3:00 pm, June 7, 2021.**

City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326
Attn: Pat Glasmann, Contracting Officer
Construction and Contracting
pglasmann@buckeyeaz.gov

SOLICITATION: IFB #2021036 – Emergency Backup Generators Citywide
Bid Due Date and Time: **June 7, 2021 no later than 3:00 pm local time**
Last Day for Questions: **May 27, 2021 no later than 3:00 pm local time**

NOTICE TO CONTRACTORS:
This Addendum forms a part of the Contract and clarifies, corrects, or modifies the original Invitation for Bid documents prepared by the City of Buckeye.

The balance of the specifications and instructions remain the same. Bidders must acknowledge receipt and acceptance of this Addendum by returning the attached Solicitation Addendum Acknowledgement Page with the Bid.

Q1. The generator spec states the equipment is to be "Blue Star Power Systems, Inc." or prior approved equal. Normally, the specifications will include a prior approval request form for the bidder to use to submit an alternate, but these specs lack such a form. Will one be provided?

A1. A form will not be required, just make the requested equipment substitution by email. We will confirm the manufacture is acceptable/not acceptable. This substitution information acceptable/not acceptable will be provided to all bidders.

Q2. The generator spec states the equipment is to be "Blue Star Power Systems, Inc." or prior approved equal. Is The Kohler System approved as an equal?

A2. As long as the proposed substitution (Kohler) meets or exceed the specified Blue Star product, the Kohler generator and supporting system is acceptable to the City. The contractor will be responsible to coordinate the system details during construction as well as provided appropriate foundation/generator pad.

Q3. The generator spec states the equipment is to be “Blue Star Power Systems, Inc.” or prior approved equal. Is The Cummins Power Generation System approved as an equal?

A3. As long as the proposed substitution (Cummins) meets or exceed the specified Blue Star product, the Cummins generator and supporting system is acceptable to the City. The contractor will be responsible to coordinate the system details during construction as well as provided appropriate foundation/generator pad.

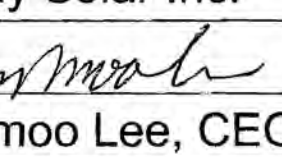
PLEASE ACKNOWLEDGE YOUR FIRM’S RECEIPT OF THIS ADDENDUM BY SIGNING THE ATTACHED SOLICITATION ADDENDUM ACKNOWLEDGEMENT.

SOLICITATION ADDENDUM ACKNOWLEDGEMENT

IFB #2021036
ADDENDUM NO. 1
ADDENDUM ISSUE DATE: May 18, 2021

Bidder certifies that Bidder has read, understands, and will fully and faithfully comply with this Invitation to Bid, its attachments and any referenced documents. Bidder also certifies that this offer was independently developed without consultation with any of the other Bidders or potential Bidders.

Name of Company: Lightday Solar Inc.

Authorized Signature: 

Print Name and Title: Hyeonmoo Lee, CEO

Date: 06/60/2021

Address: 5861 S. Kyrene Rd #9

City, State, Zip Code: Tempe, AZ 85283

Telephone Number: 480-921-3977

Email Address: 480-921-3977

SOLICITATION ADDENDUM
IFB NO. 2021036
CITY OF BUCKEYE
CONSTRUCTION & CONTRACTING DIVISION
623.349.6173

ADDENDUM NO. 2

NOTE: Attach to Original Invitation for Bid. However, if Bid has already been returned, complete this Addendum and return for attachment to your Bid by **3:00 pm, June 7, 2021.**

City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326
Attn: Pat Glasmann, Contracting Officer
Construction and Contracting
pglasmann@buckeyeaz.gov

SOLICITATION: IFB #2021036 – Emergency Backup Generators Citywide
Bid Due Date and Time: **June 7, 2021 no later than 3:00 pm local time**
Last Day for Questions: **May 27, 2021 no later than 3:00 pm local time**

NOTICE TO CONTRACTORS:
This Addendum forms a part of the Contract and clarifies, corrects, or modifies the original Invitation for Bid documents prepared by the City of Buckeye.

The balance of the specifications and instructions remain the same. Bidders must acknowledge receipt and acceptance of this Addendum by returning the attached Solicitation Addendum Acknowledgement Page with the Bid.

Q1. Does the ATS need to be the breaker style or is the standard contactor style sized per the drawings acceptable? Does the ATS's need to be closed transition (not very common) or is typical open transition acceptable?

A1. The standard contractor style sized per the drawings is acceptable. An open transition is acceptable.

Q2. Some of the work (concrete, saw cutting, landscaping, etc.) might be best performed with a General Contractor. Are we allowed to bid the project where the Electrical Contractor would function as the General Contractor? Can we qualify our bid to identify our concerns?

A2. The Invitation for Bid (IFB) reads "The undersigned understands that any exceptions taken to the Construction Contract that are not accepted and/or approved by the City may be a basis for rejection of the Bid as nonresponsive." Although the City may reject the bid because of the exceptions, it is the City's intent to award the contract in the best interest of the City.

Yes, the Electrical Contractor is encouraged to provide a bid as the Prime Contract.
Yes, please identify any areas of concern with your bid.

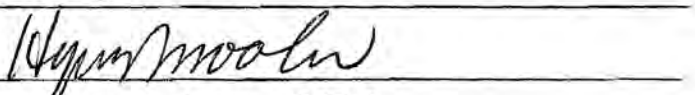
PLEASE ACKNOWLEDGE YOUR FIRM'S RECEIPT OF THIS ADDENDUM BY SIGNING THE ATTACHED SOLICITATION ADDENDUM ACKNOWLEDGEMENT.

SOLICITATION ADDENDUM ACKNOWLEDGEMENT

IFB #2021036
ADDENDUM NO. 2
ADDENDUM ISSUE DATE: May 19, 2021

Bidder certifies that Bidder has read, understands, and will fully and faithfully comply with this Invitation to Bid, its attachments and any referenced documents. Bidder also certifies that this offer was independently developed without consultation with any of the other Bidders or potential Bidders.

Name of Company: Lightday Solar Inc.

Authorized Signature: 

Print Name and Title: Hyeonmoo Lee, CEO

Date: 06/60/2021

Address: 5861 S. Kyrene Rd #9

City, State, Zip Code: Tempe, AZ 85283

Telephone Number: 480-921-3977

Email Address: 480-921-3977

SOLICITATION ADDENDUM
IFB NO. 2021036
CITY OF BUCKEYE
CONSTRUCTION & CONTRACTING DIVISION
623.349.6173

ADDENDUM NO. 3

NOTE: Attach to Original Invitation for Bid. However, if Bid has already been returned, complete this Addendum and return for attachment to your Bid by **3:00 pm, June 7, 2021.**

City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326
Attn: Pat Glasmann, Contracting Officer
Construction and Contracting
pglasmann@buckeyeaz.gov

SOLICITATION: IFB #2021036 – Emergency Backup Generators Citywide
Bid Due Date and Time: **June 7, 2021 no later than 3:00 pm local time**
Last Day for Questions: **May 27, 2021 no later than 3:00 pm local time**

NOTICE TO CONTRACTORS:
This Addendum forms a part of the Contract and clarifies, corrects, or modifies the original Invitation for Bid documents prepared by the City of Buckeye.

The balance of the specifications and instructions remain the same. Bidders must acknowledge receipt and acceptance of this Addendum by returning the attached Solicitation Addendum Acknowledgement Page with the Bid.

Q1. Project drawings do not show coordinates, dimensions to construct work. Can you clarify lay out? Please provide dimensions from existing structures, curb gutter or provide a baseline coordinate for construction staking.

A1. For bid purposes, the drawings are to be scaled for the dimensions. Any field layout dimension discrepancies will be clarified after approval of final product submittals.

Q2. In your specification: Section III Generator and Components
Part 3A Coyote Branch Library, Sub Part B, page71- It states that the generator voltage should be 277/480. However, the drawing states 120/208V. Please confirm voltage.

A2. Voltage to be 120/208V.

Q3. Part 4A Fleet Management Generator, Sub Part A page71 - It states that the generator kWe should be 100kWe. However, the drawing states 75kVA. Please confirm rating.

A3. Generator to be 75kVA.

Q4. Part 3, City Fuel Yard, Sub Part A, page72 It states that the generator kWe should be 30kWe. However, the drawing states 30kVA. Please confirm rating.

A4. Generator to be 30kVA.

Q5. In your specifications (page 66 Section 2-C) it states that certified output manufacture be Blue Star Power Systems. However, in your field study it states GENERAC specific. Can you please clarify?

A5. Either manufacturer that meets specifications is acceptable.

Q6. In your specifications (page 84 Section 2.05) it states that GENERAC Blue Star series switch. Can you please clarify if GENERAC or Blue Star accepted?

A6. Either manufacturer, or another substituted, but equal manufacturer that meets the specifications is acceptable.

Q7. In your specification (page 81 Section 2.01) it states that that the "automatic transfer switch shall be breaker based, two breaker type…" Will contactor based automatic transfer switches be accepted?

A7. Contractor type based ATS's will be accepted.

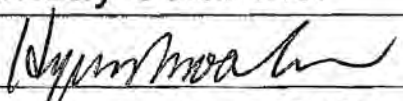
PLEASE ACKNOWLEDGE YOUR FIRM'S RECEIPT OF THIS ADDENDUM BY SIGNING THE ATTACHED SOLICITATION ADDENDUM ACKNOWLEDGEMENT.

SOLICITATION ADDENDUM ACKNOWLEDGEMENT

IFB #2021036
ADDENDUM NO. 3
ADDENDUM ISSUE DATE: May 24, 2021

Bidder certifies that Bidder has read, understands, and will fully and faithfully comply with this Invitation to Bid, its attachments and any referenced documents. Bidder also certifies that this offer was independently developed without consultation with any of the other Bidders or potential Bidders.

Name of Company: Lightday Solar Inc.

Authorized Signature: 

Print Name and Title: Hyeohmoo Lee, CEO

Date: 06/60/2021

Address: 5861 S. Kyrene Rd #9

City, State, Zip Code: Tempe, AZ 85283

Telephone Number: 480-921-3977

Email Address: 480-921-3977

EXHIBIT E
Payment and Performance Bonds

PERFORMANCE BOND

KNOW ALL PERSONS BY THESE PRESENTS THAT:

_____
Name of CONTRACTOR

_____
Address of CONTRACTOR

a _____, hereinafter called PRINCIPAL and
(*Corporation), (Partnership) or (Individual)*

_____
Name of SURETY

_____
Address of SURETY

hereinafter called SURETY, are held and firmly bound unto

City of Buckeye
Name of OWNER

530 East Monroe Avenue, Buckeye, AZ 85326
Address of OWNER

hereinafter called OWNER, in the total aggregate penal sum of _____ _____ Dollars ($_____) in lawful money of the United States, 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.

THE CONDITION OF THIS OBLIGATION is such that, whereas the PRINCIPAL entered into a certain contract with the OWNER, DATED THE _____day of _____ , 20__, a copy of which is hereto attached and made a part of the construction contract for _____.

NOW, THEREFORE, the condition of this obligation is such, that if the principal faithfully performs and fulfills all of the undertakings, covenants, terms, conditions and agreements of the contract during the original term of the contract and any extension of the contract, with or without notice to the surety, and during the life of any guaranty required under the contract, and also performs and fulfills all of the undertakings, covenants, terms, conditions and agreements of all duly authorized modifications of the contract that may hereafter be made, notice of which modifications to the surety being hereby waived, the above obligation is void. Otherwise it remains in full force and effect.

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of title 34, chapter 2, article 2, Arizona Revised Statutes, and all liabilities on this bond shall be determined in accordance with the provisions of title 34, chapter 2, article 2, Arizona Revised Statutes, to the extent as if it were copied at length in this Contract.

The prevailing party in a suit on this bond shall recover as part of the judgment reasonable attorney fees that may be fixed by a judge of the court.

IN WITNESS WHEREOF, this instrument is executed in _____ counterparts, each one of which shall be deemed an original, this _____ day of _____ _____, 20__.

PRINCIPAL'S ATTEST: _____
PRINCIPAL

By: _____
Attorney-in-Fact

(SEAL) Address: _____

_____
Witness as to PRINCIPAL

_____
Address

SURETY'S ATTEST: _____

By: _____

Address: _____

(SEAL)

_____
Witness as to SURETY

_____
Address

***PLEASE NOTE**:*

1. *Date of BOND must not be prior to date of CONTRACT.*
2. *If CONTRACTOR is partnership, all partners should execute BOND.*
3. *Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the project is located.*
4. *Use of this form as an instrument of SURETY for this project is not mandatory. Use of other forms normally deemed acceptable in the State wherein the project is located may be allowed.*

PAYMENT BOND

KNOW ALL PERSONS BY THESE PRESENTS THAT:

_____

Name of CONTRACTOR

_____

Address of CONTRACTOR

a _____, hereinafter called PRINCIPAL and
(Corporation), (Partnership) or (Individual)

_____

Name of SURETY

_____

Address of SURETY

hereinafter called SURETY, are held and firmly bound unto

City of Buckeye

Name of OWNER

530 East Monroe Avenue, Buckeye, AZ 85326

Address of OWNER

hereinafter called OWNER, in the total aggregate penal sum of _____
Dollars ($_____)
in lawful money of the United States, 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.

THE CONDITION OF THIS OBLIGATION is such that, whereas the PRINCIPAL entered into a certain contract with the OWNER, DATED THE _____day of _____ , 20__, a copy of which is hereto attached and made a part of the construction contract for _____.

NOW, THEREFORE, the condition of this obligation is such, that if the principal promptly pays all monies due to all persons supplying labor or materials to the principal or the principal's subcontractors in the prosecution of the work provided for in the contract, this obligation is void. Otherwise it remains in full force and effect.

PROVIDED, HOWEVER, that this bond is executed pursuant to the provisions of title 34, chapter 2, article 2, Arizona Revised Statutes, and all liabilities on this bond shall be determined in accordance with the provisions, conditions and limitations of title 34, chapter 2, article 2, Arizona Revised Statutes, to the same extent as if they were copied at length in this Contract.

The prevailing party in a suit on this bond shall recover as a part of the judgment reasonable attorney fees that may be fixed by a judge of the court.

IN WITNESS WHEREOF, this instrument is executed in _____ counterparts, each one of which shall be deemed an original, this _____ day of _____, 20__.

PRINCIPAL'S ATTEST:

PRINCIPAL

By: _____

Attorney-in-Fact

(SEAL) Address: _____

SURETY'S ATTEST: _____

SURETY

By: _____

Attorney-in-Fact

(SEAL) Address: _____

***PLEASE NOTE**:*

1. *Date of BOND must not be prior to date of CONTRACT.*
2. *If CONTRACTOR is partnership, all partners should execute BOND.*
3. *Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the project is located.*
4. *Use of this form as an instrument of SURETY for this project is not mandatory. Use of other forms normally deemed acceptable in the State wherein the project is located may be allowed.*

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.F. Sale of Real Property-Sonoran Ridge Water System
DATE PREPARED: 08/12/21	**DISTRICT NO.:** all
STAFF LIAISON: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225; Alisha Solano, Water Resources Director, asolano@buckeyeaz.gov, (623) 349-61013	
DEPARTMENT: Construction and Contracting	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on the Sale of Real Property-Sonoran Ridge Water System, IFB Solicitation #2021041 between the City of Buckeye, an Arizona municipal corporation identified as the Seller and Jen Arizona 36, LLC, Michael K. Jesberger identified as the Purchaser; authorizing the Mayor to execute and deliver said Purchase Agreement, Bill of Sale and Special Warranty Deed on behalf of the City for $1,001,000; and authorizing the Mayor or City Manager to approve, execute, and deliver any other Transfer Instruments or transaction documents required for closing escrow.

RELEVANT GOALS:
GOAL 1: Fiscal Wellness and Financial Flexibility and Accountability

ADDITIONAL RELEVANT GOALS:
GOAL 2: Enhanced Economic Well-Being and Vitality

SUMMARY

PROJECT DESCRIPTION:
The Sonoran Ridge Water System, including all facilities, pumps, waterlines, meters and/or other equipment, properties and rights used or useful to provide water service in the Sonoran Ridge Water System including but not limited to, the Well, well sites, easements, leaseholds and other interests in the real property commonly know as Maricopa County Assessor's Parcel No. 502-09-011B and legally described in the solicitation as Exhibit A, Legal Description of Property. The C & C Division received one bid from Jen Arizona 36, LLC, Michael K. Jesberger, 2222 W. Pinnacle Peak Rd., Phoenix, AZ. 85027 in the amount of $1,001,000.00 for the purchase of property pending Council approval. The Property underwent a Valuation study by Hazen & Sawyer prior to issuance of solicitation #2021041.

BENEFITS:
The sale of Property-Sonoran Ridge Water System will financially benefit the City and provide utilization and development of the property by the new Owner.

FUTURE ACTION:
Provide executed Purchase Agreement, Bill of Sale and Special Warranty Deed and finalize sale with Jen Arizona 36, LLC., Michael K. Jesberger, (Purchaser.)

FINANCIAL IMPACT STATEMENT:
The City of Buckeye (Seller) benefits from the Sale of Real Property-Sonoran Ridge Water System and

will receive $1,001,000.00 from Jen Arizona 36, LLC, Michael K. Jesberger (Purchaser).

CURRENT FISCAL YEAR TOTAL COST:
The City of Buckeye (Seller) benefits from the Sale of Real Property-Sonoran Ridge Water System and will receive $1,001,000.00 as payment for the property.

BUDGETED:
Yes

FISCAL YEAR:
2022

FUND/DEPARTMENT:
40003210-475502

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
1. IFB 2021041 Sale of Real Property.pdf
2. Sonoran Ridge Valuation Study.pdf
3. Map Sonoran Water System.pdf
4. Bid Submittal 2021041.pdf

BUCKEYE, AZ

CITY OF BUCKEYE

INVITATION FOR BID
IFB: 2021041

SALE OF REAL PROPERTY
SONORAN RIDGE WATER SYSTEM

CONTACT PERSON
Tammy Vogel
Purchasing Supervisor, Construction & Contracting
623.349.6175
Tvogel@buckeyeaz.gov

Date Issued:	**May 06, 2021**
Last Day for Questions:	**May 28, 2021 @ 5:00 PM local time**
Bid Due Date:	**June 07, 2021 @ 11:00 AM local time**

PLEASE NOTE: IF IFB DOCUMENTS WERE DOWNLOADED FROM THE CITY OF BUCKEYE WEBSITE, BIDDER IS RESPONSIBLE FOR OBTAINING ANY AMENDMENTS EITHER THROUGH UPDATES ON THE WEBSITE, OR BY CONTACTING THE CITY CONTACT PERSON.

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200	INSTRUCTIONS TO BIDDERS	4
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400	REAL PROPERTY BID SUBMISSION AND PURCHASE AGREEMENT (Including Exhibits A-E)	6

SECTION 100

NOTICE TO INTERESTED PARTIES OF INTENT TO RECEIVE BIDS

Notice is hereby given that the City of Buckeye, an Arizona municipal corporation ("Owner"), is accepting bids for the purchase of the Sonoran Ridge Water System, including all facilities, pumps, waterlines, meters, personal property and/or other equipment, properties and rights used or useful to provide water service in the Sonoran Ridge Water System, including, but not limited to, well sites, easements, leaseholds and other interests in the real property commonly known as Maricopa County Assessor's Parcel No. 502-09-011B and legally described in Exhibit "A" attached hereto and incorporated herein by this reference (the "Real Property"), and all equipment and facilities located thereon (collectively, the "Subject Water Facilities").

Sealed bids must be delivered to Owner's representatives at the address listed below. Each bid must be submitted in a sealed envelope with the bidder's name and marked with the words "BID REFERENCE: SALE OF SONORAN RIDGE WATER SYSTEM".

A Bid Submission and Purchase Agreement form ("Agreement Form") is available from Owner at the address listed below, for the purpose of submitting bids for the purchase of the Subject Water Facilities. All bids must be submitted on the Agreement Form. Bids not submitted on the Agreement Form or bids submitted on altered Agreement Forms will not be considered. All Agreement Forms should be submitted to:

Tammy Vogel
Purchasing Supervisor, Construction and Contracting
City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326
P: 623.349.6175
Email: Tvogel@buckeyeaz.gov

Bids must be received by 11:00 p.m., June 07, 2021, to be considered.

Owner will assume no responsibility for late mail or other delivery failures. Any bid received after 11:00 p.m. on June 07, 2021 will be rejected and returned unopened.

THE SALE OF THE SUBJECT WATER FACILITIES WILL BE ON AN "AS IS, WHERE IS" BASIS ONLY. Bidders are advised to make any inspections of and investigation into the condition of the Subject Water Facilities, including any desired investigations as to the exact area of the Real Property, access to the Real Property, the status of title of the Subject Water Facilities or the environmental condition of the Real Property prior to submitting the Agreement Form containing their bid to Owner. Title to the Real Property will be transferred by special warranty deed. Title to the remaining property constituting the Subject Water Facilities will be transferred by Bill of Sale. Information

concerning the Subject Water Facilities, including a complete list of the property comprising the Subject Water Facilities and a copy of the appraisal obtained by Owner with respect thereto, may be viewed upon request at the address listed above. OWNER MAKES NO WARRANTIES OR REPRESENTATIONS AS TO THE ACCURACY OF ANY INFORMATION CONCERNING THE SUBJECT WATER FACILITIES.

Bidders are hereby advised that the successful bidder will be solely responsible, at its sole cost and expense, for obtaining any and any governmental approvals that may be necessary in order for the successful bidder to provide water service to the properties serviced by the Sonoran Ridge Water System, including, without limitation, any approvals from Maricopa County or the Arizona Corporation Commission. The successful bidder will also be solely responsible, at its sole cost and expense, for obtaining any necessary Certificate of Convenience and Necessity from the Arizona Corporation Commission to permit it to engage as a public service corporation in the sale of water to the area currently serviced by the Sonoran Ridge Water System.

OWNER WILL PAY NO BROKERAGE FEE IN CONNECTION WITH THIS SALE.

No bid less than $1,000,000.00 will be considered. The successful bidder will be determined in Owner's sole and absolute discretion, on the basis of the most desirable bid received by Owner. Owner reserves the right to reject any and all bids, notwithstanding the fact that a bid at or above the minimum bid may be received. Earnest money in the amount of at least Fifty Thousand Dollars ($50,000) must be given to Owner at the same time the Agreement Form is submitted to Owner in the form of a cashier's check or certified check payable to Pioneer Title Agency, Inc. Deposits will be returned to unsuccessful bidders within five (5) business days of the auction date. The deposit will be subject to forfeiture as provided in the Agreement Form if the successful bidder fails to consummate the purchase of the Subject Water Facilities in accordance with and as required by the Agreement Form.

END OF SECTION

SECTION 200

INSTRUCTIONS TO BIDDERS

To be considered, the Bids must be made in accordance with Instructions cited in Section 100.

Bids shall be addressed to City of Buckeye, Tammy Vogel, and delivered in an enclosed sealed envelope, marked:

IFB #2021041: SALE OF REAL PROPERTY-SONORAN RIDGE WATER SYSTEM, BUCKEYE, ARIZONA

Bidder's Name _____
Bidder's Address _____
City shall receive bids as stated in Section 100 at:

City of Buckeye
2nd Floor Reception Desk
530 East Monroe Avenue
Buckeye, Arizona 85326

The Bids will be opened and read aloud in a virtual format. An email with a link to "Microsoft Teams" will be sent to all participants on the Plan Holders list three (3) days prior to the Bid Opening.

Late Bids will not be considered. It is the responsibility of the Bidder to insure that the Bid is received on time.

The Bidder is required to submit **ONE (1) ORIGINAL and ONE (1) Copy** of the completed Bid form in its entirety and **One (1)** USB Thumb Drive .pdf format.

Bid Security. The Bidder is required to submit with his Bid a certified or cashiers' check, upon a solvent bank payable to Pioneer Title Agency, Inc.

END OF SECTION

SECTION 300
SCHEDULE OF EVENTS FOR #2021026

Estimated Timeline for Schedule of Events:

DATES	DESCRIPTION OF ITEM	UPDATES
5/07/2021	IFB Issue Date	
5/10/2021	Posted on City of Buckeye website	
5/10/2021-5/21/2021	Advertisement Dates	
5/28/2021	Last Date for Questions (5:00 p.m.)	
6/07/2021	Bid Opening Date	
6/08/2021-6/17/2021	Review Dates	
6/08/2021	Notice of Intent	
6/17/2021	Award Recommendation	
6/17/2021	Non-Award Deposits send by mail to Offerors	
07/06/2021	Final City of Buckeye Council Approval	

SECTION 400

REAL PROPERTY BID SUBMISSION AND PURCHASE AGREEMENT

IFB No. #2021041

Project Name: SALE OF REAL PROPERTY-SONORAN RIDGE WATER SYSTEM, BUCKEYE, ARIZONA

Date: Date and Time Here

Bid from: _____
(Name)

To: City of Buckeye

PURCHASE AND OFFER FORM BELOW. THE PURCHASE AGREEMENT MUST INCLUDE THE FOLLOWING:

PAGE 1: THE UNDERSIGNED- NAME OF PERSON AND/OR ENTITY

PAGE 2, PARAGRAPH 2.1: OFFER PURCHASE PRICE OFFERED

PAGE 12, PARAGRAPH 13.6 NOTICES: NAME/ADDRESS/PHONE OF PURCHASER

PAGE 13, PARAGRAPH 14.1: ACCEPTANCE DATE

PAGE 14: DATE AND SIGNATURE

BID SUBMISSION AND PURCHASE AGREEMENT

The undersigned, _____, as Purchaser, offers to purchase certain assets from the City of Buckeye, Arizona, an Arizona municipal corporation, as Seller, upon the following terms and conditions:

Article 1
Property to be Sold

1.1 Property. The Property which is the subject of this offer consists of the following:

The Sonoran Ridge Water System, including all facilities, pumps, waterlines, meters and/or other equipment, properties and rights used or useful to provide water service in the Sonoran Ridge Water System, including, but not limited to, the Well (as defined below) well sites, easements, leaseholds and other interests in the real property commonly known as Maricopa County Assessor's Parcel No. 502-09-011B and legally described in Exhibit "A" attached hereto and incorporated herein by this reference, and all equipment and facilities located thereon (collectively, the "**Subject Water Facilities**").

1.2 Definitions. Unless the context clearly indicates the contrary, the following capitalized words used herein shall have the meanings set forth below:

(a) **"ACC"** refers to the Arizona Corporation Commission in the exercise of its constitutional and statutory authority to regulate utility service in this State provided by public service corporations.

(b) **"ADWR"** refers to the Arizona Department of Water Resources.

(c) "**Bill of Sale**" refers to that certain document to be given by Seller to Purchaser conveying all of its interest in and to the Equipment.

(d) **"CC&N"** refers to the Certificate of Convenience and Necessity to be issued by the ACC to Purchaser or to a public service water utility company to be designated by Purchaser to provide water service to the Service Area (as defined below).

(e) "**Equipment**" refers to tangible property, whether affixed or not to the Real Property, which has been acquired by Seller for use primarily in connection with the operation of the Sonoran Ridge Water System, including but not limited to all equipment used in the operation of wells and tanks and the water distribution system.

(f) "**Improvements**" refers to wells, tanks, water lines and distribution systems, and any other structures or tangible property used in connection with the Subject Water Facilities.

(g) "**Real Property**" refers to all well sites, easements, licenses and other real property interests located in Maricopa County, Arizona, legally described in Exhibit

"A" attached hereto, including all Improvements, fixtures and any other rights and appurtenances pertaining thereto.

(h) **"Service Area"** refers to the area to which water service is provided by the Subject Water Facilities, as depicted on Exhibit "B" attached hereto.

(i) **"Transfer Customers"** refers to those customers that are currently being served by Seller by means of the Subject Water Facilities as of the date of this Agreement whose accounts will be transferred to be served by Purchaser as of the Closing Date of this Agreement according to the terms set forth herein.

(j) "**Transfer Instruments**" refers to those instruments customarily required for the transfer of the Subject Water Facilities, including but not limited to:

(i) Special Warranty Deed to the Real Property;

(ii) Bill of Sale to all Equipment to be transferred to Purchaser hereunder; and

(iii) A duly executed notice of change of well ownership for the Well in the form prescribed by ADWR

(k) **"Well"** refers to the water production well identified as ADWR Well No. 55-5726567.

Article 2
Purchase Price

2.1 Price. The total purchase price of the Property shall be $_____.

Article 3
Payment of Purchase Price

3.1 Payment. The purchase price of the Property shall be paid as follows:

(a) Earnest Money. $50,000.00 has been delivered to Seller in the form of a cashier's or certified check payable to Escrow Holder (as defined below), upon the delivery of this offer by Purchaser. This payment shall constitute the earnest money ("**Earnest Money**") for all purposes of this Agreement. No interest shall accrue or become payable on the Earnest Money payment. The Earnest Money shall be nonrefundable to Purchaser, except in the event of (i) Purchaser's disapproval of title and Seller's failure to correct the disapproved title matter(s) pursuant to Article 6 below or (ii) Seller default hereunder. Upon Seller's Acceptance (as defined below) the Earnest Money shall be released to Seller.

(b) Balance. The balance of the purchase price, plus or minus prorations, shall be paid to Seller at closing by confirmed wire transfer.

Article 4
Conveyance of Subject Water Facilities

Subject to and upon the terms and conditions contained in this Agreement, Seller agrees to sell, assign, transfer and convey to Purchaser on the Closing Date, and Purchaser agrees to purchase, accept and receive from Seller on the Closing Date, the Subject Water Facilities. The provisions of this Article 4 shall survive the Close of Escrow and the transfer of the Subject Water Facilities to Purchaser.

4.1 Equipment. The Equipment shall be conveyed at Closing by the execution and delivery by Seller of the Bill of Sale. The Bill of Sale shall include a list identifying all Equipment and shall be in the form of Exhibit C hereto.

4.2 Real Property. The Real Property shall be conveyed at Closing by the execution and delivery by Seller of a special warranty deed in the form attached as Exhibit D hereto (the **"Deed"**).

4.3 System Improvements, Service to Transfer Customers and Post-Transfer Operations.

(a) Prior to the Closing Date, Purchaser shall complete or cause to be completed, at its sole cost and expense, all improvements that are required to enable Purchaser to interconnect the Subject Water Facilities with the current water system of the public service water utility company to whom the ACC-approved CC&N is issued, as referenced in Section 6.2 below, and to begin serving the Transfer Customers without interruption or delay (the **"Connection Improvements"**).

(b) On and after the Closing Date, Purchaser (or its assignee) shall provide potable water service to all Transfer Customers on terms that are consistent with Purchaser's (or its assignee's) provision of potable water services to its other customers in the vicinity of the Transfer Customers as specified in terms of service established by Purchaser (or its assignee). Upon the Close of Escrow, Purchaser shall be solely responsible for operating and maintaining the Subject Water Facilities and for delivery of potable water to the Transfer Customers. Purchaser shall do so in a manner that complies with all applicable state, federal and local law. Purchaser shall indemnify, hold harmless and defend Seller for, from and against any claims by third parties arising on or after the Closing Date and resulting from any action or inaction by Purchaser in providing potable water service to the Transfer Customers.

4.4 Accounts Receivable. Upon the Close of Escrow, accounts receivable for potable water service to the Transfer Customers shall be handled in the following manner:

(a) Seller shall bill the Transfer Customers for potable water service provided during the month immediately prior to the Closing Date, and Seller shall be solely responsible for collection of all amounts due from the Transfer Customers for such service.

(b) Purchaser shall bill the Transfer Customers for potable water service provided to the Transfer Customers beginning on the Closing Date and for all service provided thereafter, and Purchaser shall be solely responsible for collection of all amounts due from the Transfer Customers for such service. Purchaser shall not be obligated to terminate service to any Transfer Customer that fails to pay amounts owed for water service provided by Seller prior

to the Closing Date, but Purchaser may elect to do so in a manner consistent with terms of service established by Purchaser.

(c) Seller and Purchaser shall cooperate to assist any Transfer Customers with accounts that are set up for automatic payments to allow transition of such accounts to Purchaser's billing system as of the Closing Date.

4.5 Transfer Customer Rates and Billing. Upon the Close of Escrow, Purchaser shall be solely responsible for establishing rates and other terms of service for the Transfer Customers in a manner consistent with applicable law, and for billing and collecting from the Transfer Customers for potable water service. Purchaser shall be entitled to retain all revenues resulting from Purchaser's provision of potable water service to the Transfer Customers.

4.6 Service Area Maps. Seller and Purchaser shall cooperate in preparing updated service area maps for their respective service areas that accurately reflect that the Service Area has been removed from Seller's service area and added to Purchaser's service area. Each party shall thereafter be responsible for submitting update service area maps to ADWR.

Article 5

Escrow

5.1 Escrow. Upon Seller's acceptance of the offer set forth herein, as evidenced by Seller's execution hereof (**"Seller's Acceptance"**), Purchaser and Seller shall promptly open an escrow (**"Escrow"**) for the purchase and sale of the Property by executing and depositing this Agreement with Pioneer Title Agency, Inc. (**"Escrow Holder"**). Escrow Holder shall notify Seller and Purchaser in writing of the date of opening of Escrow pursuant to this Section 5.1. In the event of any conflict or inconsistency between any provision of the escrow instructions and any provision of this Agreement or any other instrument or document executed or delivered pursuant to this Agreement, the provisions of this Agreement or such other instrument or document shall control over the escrow instructions. This Agreement shall not be deemed to contain any indemnity in favor of Escrow Holder or any rights to a brokerage commission that may be set forth in any standard escrow instructions.

Article 6
Title Insurance

6.1 Title Commitment. Purchaser shall at its expense order from First National Title Insurance Company (**"Title Company"**) and deliver to Purchaser and Seller a commitment (**"Title Commitment"**) to issue the Owner's Policy with respect to the Real Property (as defined below), and legible copies of the documents evidencing the exceptions to title stated therein. The Title Commitment shall be delivered not less than thirty (30) days after Seller's Acceptance, including any postponement thereof pursuant to any of the provisions hereof. Unless Purchaser gives written notice (**"Title Disapproval Notice"**) that it disapproves the exceptions to title shown on the Title Commitment, stating the exceptions so disapproved, within fifteen (15) days of the date of delivery of the Title Commitment to Purchaser, Purchaser shall be conclusively deemed to have approved the exceptions listed in the Title Commitment. Seller shall have a fifteen (15) day period after its receipt of any Title Disapproval Notice within which to remove the disapproved exceptions set forth therein from title at no cost or expense to Purchaser (Seller having the right but not the obligation to do so), and the closing date shall be automatically extended, if necessary, to allow for such fifteen (15) day period.

6.2 Title Contingency. A condition precedent to Purchaser's obligation to purchase the Property shall be the willingness of Title Company to issue to Purchaser on the closing date an ALTA standard coverage owner's title insurance policy (**"Owner's Policy"**), showing title to the Real Property to be vested of record in the Purchaser, subject solely to the following exceptions: (a) the printed exceptions which appear in the standard form coverage owner's policy of title insurance issued by Title Company in the State of Arizona and (b) the exceptions approved or deemed approved by Purchaser pursuant to Section 6.1 above. Purchaser may obtain an extended coverage policy if it so desires, but the ability of Purchaser to obtain such extended coverage policy shall not be a condition of Purchaser's obligation to purchase the Property pursuant to this Agreement. Purchaser shall have the option to waive the condition precedent set forth in this Section 6.2 by written notice to Seller. In the event of such waiver, such condition shall be deemed satisfied.

Article 7
Damages and/or Condemnation

7.1 Casualty/Taking. Risk of damage or destruction of the Subject Water Facilities by any casualty or by a partial taking or condemnation under the provisions of applicable eminent domain law is assumed by Seller until the closing of this transaction, unless the Purchaser takes possession of the Subject Water Facilities prior thereto, in which case risk of such damage or destruction will pass to Purchaser at the time Purchaser takes possession of the Subject Water Facilities.

7.2 Repairs to Subject Water Facilities. Purchaser acknowledges that repairs to or replacements of the Subject Water Facilities may become necessary during the pendency of this Agreement. In the event Seller is required to repair or replace any of the Subject Water Facilities during the period commencing on the date on which the ACC issues an order granting Purchaser or a public service water utility company designated by Purchaser a CC&N to provide water service to the Service Area and the area described on Exhibit "E" attached hereto (the **"ACC Approval"**) and ending on the Closing Date or the Outside Closing Date, as applicable (both, as defined below), Purchaser shall, as a condition of closing hereunder, reimburse Seller for all amounts expended for such replacement or repair, such amount to be deposited into escrow by Purchaser on or prior to the Closing Date, upon receipt of reasonable evidence from Seller detailing such expenses, to be paid to Seller upon the completion of the closing of this transaction (the **"Repair Costs"**). Such payment by Purchaser shall not be considered to be a part of the purchase price payable for the Subject Water Facilities, but rather shall be compensation to Seller for costs incurred as a result of the extended escrow period required by Purchaser's need to obtain the CC&N from the ACC as provided in Section 8.1 below. Should the Repair Costs exceed an amount equal to _____ percent (___%) of the Purchase Price, Purchaser may, at its election, by written notice to Seller given within three (3) business days of Purchaser's receipt of Seller's statement of the amount of the Repair Costs, terminate this Agreement, in which case the Earnest Money shall be returned to Purchaser, and Purchaser and Seller shall have no further duties, liabilities or obligations under this Agreement except those that expressly survive termination of this Agreement.

Article 8
Closing and Possession

8.1 Closing. The date on which this transaction shall be closed (the **"Closing Date"**) shall be the first day of the month following the date on which the earliest of the following has occurred: (i) one hundred twenty (120) days following the issuance by the ACC of the ACC

Approval; (ii) the date that the Connection Improvements are complete and have been accepted (**"Final Acceptance"**) by the public service water utility company to whom the ACC Approval was issued; or (iii) April 30, 2022. In the event that Final Acceptance has not occurred by the date specified in 8.1(iii), above, and provided that Purchaser is making diligent efforts to cause Final Acceptance to occur, Purchaser shall have the one time right to extend the Closing Date from the date specified in 8.1(iii), above, for an additional period of thirty (30) days (the **"Outside Closing Date"**). Purchaser shall assume all risks and liabilities associated with compliance with the regulatory authority of the ACC regarding this Agreement. Purchaser (or its designee) shall faithfully and diligently prosecute an application before the ACC requesting issuance of the above-referenced CC&N. If Seller fails to close for any reason, this Agreement shall thereupon, without further action by any party, become null and void and neither party shall have any obligation hereunder, except that Purchaser's Earnest Money payment shall be refunded upon delivery to Seller of all executed copies of this Agreement previously delivered to Purchaser or its agents or representatives.

8.2 Delivery of Possession. Possession of the Property shall be delivered to Purchaser at closing.

8.3 Conditions of Closing.

(a) The obligation of Seller under this Agreement to sell the Subject Water Facilities is expressly conditioned upon and subject to (i) the approval of this Agreement by Seller's City Council and (ii) Purchaser's performance of each covenant and obligation of Purchaser set forth in this Agreement, including, without limitation, delivery into escrow by Purchaser of the purchase price and the closing costs. If any of the foregoing conditions are not satisfied or expressly waived by Seller in its sole discretion within the time provided in this Agreement, Seller may terminate this Agreement and all Earnest Money shall be returned to Purchaser (unless the failure of a condition is the result of Purchaser's breach of this Agreement, in which case the provisions of Section 13.6 below shall apply), and Purchaser and Seller shall have no further duties, liabilities or obligations under this Agreement except those that expressly survive termination of this Agreement.

(b) The obligation of Purchaser under this Agreement to purchase the Subject Water Facilities is expressly conditioned upon and subject to (i) the issuance by the ACC of an order granting Purchaser or the public service water utility company designated by Purchaser the CC&N described in Section 8.1, above; (ii) Purchaser's determination that the environmental condition of the Real Property and the Subject Water Facilities is acceptable to Purchaser; and (iii) any exceptions to title that have been approved or deemed approved by Purchaser. If any of the foregoing conditions are not satisfied or expressly waived by Purchaser in its sole discretion within the time provided in this Agreement, Purchaser may terminate this Agreement and receive the return of all Earnest Money, and Purchaser and Seller shall have no further duties, liabilities or obligations under this Agreement except those that expressly survive termination of this Agreement.

(c) It shall further be a condition to both parties' obligations under this Agreement that there shall not, as of the Closing, be pending or threatened any litigation, suit, action or proceeding by any party that (i) would adversely affect the ownership or operation of the Subject Water Facilities; (ii) seeks to restrain or prohibit the transactions contemplated by this Agreement; (iii) challenges the legality or validity of the

transactions contemplated by this Agreement; or (iv) seeks damages from either party as a result of the transactions contemplated by this Agreement.

(d) This Agreement may be terminated at any time prior to the Closing Date: (i) by Seller by written notice to Purchaser if any of the conditions set forth in Sections 8.3(a) or 8.3(b) shall not have been, or if it becomes apparent to Seller in its commercially reasonable discretion that any of such conditions will not be, fulfilled by 5:00 p.m. Phoenix, Arizona time on the Outside Closing Date, unless such failure shall be due to the failure of Seller to perform or comply with any of the covenants, agreements or conditions hereof to be performed or complied with by it prior to the Closing Date; or by Purchaser by written notice to Seller if any of the conditions set forth in 8.3(a) or 8.3(b) shall not have been, or if it becomes apparent to Purchaser in its commercially reasonable discretion that any of such conditions will not be, fulfilled by 5:00 p.m. Phoenix, Arizona time on the Outside Closing Date, unless such failure shall be due to the failure by Purchaser to perform or comply with any of the covenants, agreements or conditions hereof to be performed or complied with by it prior to the Closing Date.

(e) In the event of the termination of this Agreement pursuant to the provisions of Section 8.3(d): (i) this Agreement shall terminate and have no further force or effect, without any liability to any person in respect hereof or of the transactions contemplated hereby on the part of any party hereto, except for any liability resulting from such party's material breach of this Agreement; and (b) Escrow Agent shall return to the party who deposited same all materials relating to this Agreement in its possession.

8.4 Closing Documents.

(a) Seller's Deposits. Prior to Closing, Seller shall deposit in escrow for delivery to Purchaser, the following;

(i) The Transfer Instruments required by this Agreement.

(ii) Any other documents or instruments required by this Agreement.

(iii) Any other instruments necessary to or reasonably required by Purchaser to effectuate the transaction contemplated herein.

(b) Purchaser's Deposits. Prior to Closing, Purchaser shall deposit in escrow, for deliver to Seller, the following:

(i) All sums required of Purchaser to close this transaction.

(ii) Such Transfer Instruments as are required of Purchaser.

(iii) Any other instruments necessary to or reasonably required by Seller to effectuate the transaction contemplated herein, including the written notice of assignment described in Section 11.3 of this Agreement.

Article 9
Prorations

9.1 Adjustments. All items customarily prorated and adjusted in connection with the closing of the sale of property similar to the Subject Water Facilities shall be prorated, adjusted and computed as of 11:59 p.m. of the day immediately preceding the Closing Date.

Article 10
Seller's Disclaimer

10.1 Disclaimer of Representations and Warranties by Seller. PURCHASER HEREBY ACKNOWLEDGES AND AGREES THAT THE SALE OF THE SUBJECT WATER FACILITIES HEREUNDER IS AND WILL BE MADE ON AN "AS IS, WHERE IS" BASIS AND THAT SELLER HAS NOT MADE, DOES NOT MAKE AND SPECIFICALLY NEGATES AND DISCLAIMS ANY REPRESENTATIONS, WARRANTIES OR GUARANTIES OF ANY KIND OR CHARACTER WHATSOEVER, WHETHER EXPRESS OR IMPLIED, ORAL OR WRITTEN, PAST, PRESENT, FUTURE OR OTHERWISE, OF, AS TO, CONCERNING OR WITH RESPECT TO THE SUBJECT WATER FACILITIES, INCLUDING WITHOUT LIMITATION, (1) ENVIRONMENTAL MATTERS RELATING TO THE REAL PROPERTY OR ANY PORTION THEREOF, (2) GEOLOGICAL CONDITIONS, INCLUDING, WITHOUT LIMITATION, SUBSIDENCE, SUBSURFACE CONDITIONS, WATER TABLE, UNDERGROUND WATER RESERVOIRS, LIMITATIONS REGARDING THE WITHDRAWAL OF WATER AND FAULTING, (3) WHETHER OR NOT AND THE EXTENT TO WHICH THE REAL PROPERTY OR ANY PORTION THEREOF IS AFFECTED BY ANY STREAM (SURFACE OR UNDERGROUND), BODY OF WATER, FLOOD PRONE AREA, FLOOD PLAIN, FLOODWAY OR SPECIAL FLOOD HAZARD, (4) DRAINAGE, (5) ACCESS TO THE REAL PROPERTY, (6) SOIL CONDITIONS, INCLUDING THE EXISTENCE OF INSTABILITY, PAST SOIL REPAIRS, SOIL ADDITIONS OR CONDITIONS OF SOIL FILL, OR SUSCEPTIBILITY TO LANDSLIDES, OR THE SUFFICIENCY OF ANY UNDERSHORING, (7) ZONING TO WHICH THE REAL PROPERTY OR ANY PORTION THEREOF MAY BE SUBJECT, (8) THE AVAILABILITY OF ANY UTILITIES TO THE SUBJECT WATER FACILITIES OR ANY PORTION THEREOF INCLUDING, WITHOUT LIMITATION, WATER, SEWAGE, GAS AND ELECTRIC, (9) USAGES OF ADJOINING PROPERTY, (10) ACCESS TO THE REAL PROPERTY OR ANY PORTION THEREOF, (11) THE PRESENCE OF HAZARDOUS SUBSTANCES IN OR ON, UNDER OR IN THE VICINITY OF THE REAL PROPERTY, (12) THE CONDITION OR USE OF THE SUBJECT WATER FACILITIES OR COMPLIANCE OF THE SUBJECT WATER FACILITIES WITH ANY OR ALL PAST, PRESENT OR FUTURE FEDERAL, STATE OR LOCAL ORDINANCES, RULES, REGULATIONS OR LAWS, (13) THE EXISTENCE OR NON-EXISTENCE OF UNDERGROUND STORAGE TANKS, (14) ANY OTHER MATTER AFFECTING THE STABILITY OR INTEGRITY OF THE SUBJECT WATER FACILITIES, (15) THE POTENTIAL FOR DEVELOPMENT OF THE REAL PROPERTY, (16) THE EXISTENCE OF VESTED LAND USE, ZONING OR BUILDING ENTITLEMENTS AFFECTING THE SUBJECT WATER FACILITIES OR (17) THE MERCHANTABILITY OF THE SUBJECT WATER FACILITIES OR FITNESS OF THE SUBJECT WATER FACILITIES FOR ANY PARTICULAR PURPOSE (PURCHASER AFFIRMING THAT PURCHASER HAS NOT RELIED ON SELLER'S SKILL OR JUDGMENT TO SELECT OR FURNISH THE SUBJECT WATER FACILITIES FOR ANY PARTICULAR PURPOSE, AND THAT SELLER MAKES NO WARRANTY THAT THE SUBJECT WATER FACILITIES ARE FIT FOR ANY PARTICULAR PURPOSE).

FOR PURPOSES HEREOF "HAZARDOUS SUBSTANCES" MEANS ANY HAZARDOUS, TOXIC OR DANGEROUS WASTE, SUBSTANCE OR MATERIAL, POLLUTANT

OR CONTAMINANT, AS DEFINED FOR PURPOSES OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF 1980 (42 U.S.C. SECTIONS 9601 ET SEQ.), AS AMENDED ("**CERCLA**"), OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 U.S.C. SECTIONS 6901 ET SEQ.), AS AMENDED, OR ANY OTHER FEDERAL, STATE OR LOCAL LAW, ORDINANCE, RULE OR REGULATION APPLICABLE TO THE PROPERTY, OR ANY SUBSTANCE WHICH IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC OR OTHERWISE HAZARDOUS, OR ANY SUBSTANCE WHICH CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, POLYCHLORINATED BIPHENYLS (PCBs), OR RADON GAS, UREA FORMALDEHYDE, ASBESTOS OR LEAD.

PURCHASER ACKNOWLEDGES THAT IT HAS OR WILL COMPLETE ALL PHYSICAL AND FINANCIAL EXAMINATIONS RELATING TO THE ACQUISITION OF THE SUBJECT WATER FACILITIES HEREUNDER AND WILL ACQUIRE THE SAME SOLELY ON THE BASIS OF SUCH EXAMINATIONS AND THE TITLE INSURANCE PROTECTION AFFORDED BY THE OWNER'S POLICY AND NOT ON ANY INFORMATION PROVIDED OR TO BE PROVIDED BY SELLER. PURCHASER FURTHER ACKNOWLEDGES AND AGREES THAT ANY INFORMATION PROVIDED OR TO BE PROVIDED WITH RESPECT TO THE SUBJECT WATER FACILITIES WAS OBTAINED FROM A VARIETY OF SOURCES AND THAT SELLER HAS NOT MADE ANY INDEPENDENT INVESTIGATION OR VERIFICATION OF SUCH INFORMATION AND MAKES NO REPRESENTATIONS AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION. SELLER SHALL NOT BE LIABLE FOR ANY NEGLIGENT MISREPRESENTATION OR ANY FAILURE TO INVESTIGATE THE SUBJECT WATER FACILITIES NOR SHALL SELLER BE BOUND IN ANY MANNER BY ANY VERBAL OR WRITTEN STATEMENTS, REPRESENTATIONS, APPRAISALS, ENVIRONMENTAL ASSESSMENT REPORTS, OR OTHER INFORMATION PERTAINING TO THE SUBJECT WATER FACILITIES OR THE OPERATION THEREOF, FURNISHED BY SELLER OR BY ANY REAL ESTATE BROKER, AGENT, REPRESENTATIVE, EMPLOYEE, SERVANT OR OTHER PERSON ACTING ON SELLER'S BEHALF. IT IS UNDERSTOOD AND AGREED THAT THE SUBJECT WATER FACILITIES ARE SOLD BY SELLER AND PURCHASED BY PURCHASER SUBJECT TO THE FOREGOING.

Article 11
Purchaser's Agreements, Representations and Covenants

11.1 Authorization. If Purchaser is other than a natural person, Purchaser represents and warrants to Seller that the execution and delivery of this Agreement by Purchaser has been duly authorized, and that the Agreement creates legally enforceable obligations as to Purchaser in accordance with its respective terms.

11.2 Resolutions. If Purchaser is other than a natural person, at Seller's request before closing, Purchaser shall deliver to Seller certified copies of appropriate documents authorizing this transaction, in form reasonably acceptable to Seller and the title insurer.

11.3 Proceedings. Purchaser represents and warrants to Seller that there are no actions, suits or proceedings pending and served or, to Purchaser's knowledge, threatened in writing against Purchaser, at law or in equity, before or by any court, arbitrator or governmental authority that, individually or in the aggregate, would adversely affect the validity of this Agreement or its enforceability against Purchaser, the consummation by Purchaser of the transactions contemplated hereby, or the compliance with the terms hereof by Purchaser.

11.4 Assignment. Purchaser shall have the right, without Seller's consent, to assign its rights under this Agreement to, and nominate as Purchaser hereunder, the water utility that has been issued an order granting the CC&N described in Section 8.1 by giving written notice of such assignment to Seller at least twenty (20) days prior to the Closing Date. Except as described in the foregoing sentence, Purchaser may not assign any of its rights under this Agreement without Seller's prior written consent (which may be granted or withheld in Seller's reasonable discretion). Upon any such assignment, the assignee/nominee shall succeed to all of Purchaser's rights and obligations hereunder, and all references in this Agreement to Purchaser shall thereafter be deemed to refer to the assignee/nominee. Purchaser shall promptly advise Seller and Escrow Holder in writing of any such assignment or nomination, and of the assignee/nominee's name, address and telephone number. Any such notice shall be effective only upon actual receipt, notwithstanding anything to the contrary contained herein.

11.5 No Recordation. This Agreement shall not be recorded in whole or in part, and any party doing so or causing same to be done shall be deemed to be in default of this Agreement for all purposes hereof.

Article 12
Purchaser's Waiver and Release

12.1 Purchaser's Waiver and Release. AS PART OF PURCHASER'S AGREEMENT TO PURCHASE AND ACCEPT THE SUBJECT WATER FACILITIES "AS-IS WHERE-IS", AND NOT AS A LIMITATION ON SUCH AGREEMENT, PURCHASER HEREBY UNCONDITIONALLY AND IRREVOCABLY WAIVES ANY AND ALL ACTUAL OR POTENTIAL RIGHTS PURCHASER MIGHT HAVE REGARDING ANY FORM OF WARRANTY, EXPRESS OR IMPLIED, OF ANY KIND OR TYPE, RELATING TO THE SUBJECT WATER FACILITIES OR ANY OF THE MATTERS REFERRED TO IN SECTION 10.1 ABOVE ("PROPERTY CONDITION"). SUCH WAIVER IS ABSOLUTE, COMPLETE, TOTAL AND UNLIMITED IN ANY WAY. SUCH WAIVER INCLUDES, BUT IS NOT LIMITED TO, A WAIVER OF EXPRESS WARRANTIES, IMPLIED WARRANTIES, WARRANTIES OF FITNESS FOR A PARTICULAR USE, WARRANTIES OF MERCHANTABILITY, STRICT LIABILITY RIGHTS, AND CLAIMS, LIABILITIES, DEMANDS OR CAUSES OF ACTION OF EVERY KIND AND TYPE, WHETHER STATUTORY, CONTRACTUAL OR UNDER TORT PRINCIPLES, AT LAW OR IN EQUITY, INCLUDING, BUT NOT LIMITED TO, CLAIMS REGARDING DEFECTS WHICH MIGHT HAVE BEEN DISCOVERABLE, CLAIMS REGARDING DEFECTS WHICH WERE NOT OR ARE NOT DISCOVERABLE, ALL OTHER EXTANT OR LATER CREATED OR CONCEIVED OF STRICT LIABILITY OR STRICT LIABILITY TYPE CLAIMS AND RIGHTS, AND ANY CLAIMS UNDER CERCLA.

EFFECTIVE UPON THE CLOSING DATE, AND TO THE FULLEST EXTENT PERMITTED BY LAW, PURCHASER HEREBY RELEASES, DISCHARGES AND FOREVER ACQUITS SELLER AND EVERY ENTITY AFFILIATED WITH SELLER AND ALL OF THEIR OFFICERS, EMPLOYEES, AGENTS AND INDEPENDENT CONTRACTORS AND THE SUCCESSOR OF EACH AND EVERY ONE OF THEM FROM ALL DEMANDS, CLAIMS, LIABILITIES, OBLIGATIONS, COSTS AND EXPENSES WHICH PURCHASER MAY SUFFER OR INCUR RELATING TO THE CONDITION OR ANY OTHER ASPECT OF THE SUBJECT WATER FACILITIES. AS PART OF THE PROVISIONS OF THIS SECTION 12.1, BUT NOT AS A LIMITATION THEREON, PURCHASER HEREBY AGREES, REPRESENTS AND WARRANTS THAT THE MATTERS RELEASED HEREIN ARE NOT LIMITED TO MATTERS WHICH ARE KNOWN OR DISCLOSED, AND PURCHASER HEREBY WAIVES ANY AND ALL RIGHTS AND BENEFITS WHICH IT NOW HAS, OR IN THE FUTURE MAY HAVE

CONFERRED UPON IT, BY VIRTUE OF THE PROVISION OF FEDERAL, STATE OR LOCAL LAW, RULES OR REGULATIONS.

IN THIS CONNECTION AND TO THE EXTENT PERMITTED BY LAW, PURCHASER HEREBY AGREES, REPRESENTS AND WARRANTS THAT PURCHASER REALIZES AND ACKNOWLEDGES THAT FACTUAL MATTERS NOW UNKNOWN TO IT MAY HAVE GIVEN OR MAY HEREAFTER GIVE RISE TO CAUSES OF ACTION, CLAIMS, DEMANDS, DEBTS, CONTROVERSIES, DAMAGES, COSTS, LOSSES AND EXPENSES WHICH ARE PRESENTLY UNKNOWN, UNANTICIPATED AND UNSUSPECTED, AND PURCHASER FURTHER AGREES, REPRESENTS AND WARRANTS THAT THE WAIVERS AND RELEASES HEREIN HAVE BEEN AGREED UPON IN LIGHT OF THAT REALIZATION AND THAT PURCHASER NEVERTHELESS HEREBY INTENDS TO RELEASE, DISCHARGE AND ACQUIT SELLER FROM ANY SUCH UNKNOWN CAUSES OF ACTION, CLAIMS, DEMANDS, DEBTS, CONTROVERSIES, DAMAGES, COSTS, LOSSES AND EXPENSES WHICH MIGHT IN ANY WAY BE INCLUDED IN THE WAIVERS AND MATTERS RELEASED AS SET FORTH IN THIS SECTION 12.1. THE PROVISIONS OF THIS SECTION 12.1 ARE MATERIAL AND INCLUDED AS A MATERIAL PORTION OF THE CONSIDERATION GIVEN TO SELLER BY PURCHASER IN EXCHANGE FOR SELLER'S PERFORMANCE HEREUNDER.

PURCHASER HEREBY ACKNOWLEDGES AND AGREES THAT SELLER WILL NOT PAY TO ANY BROKER RETAINED BY PURCHASER ANY BROKERAGE FEE ASSOCIATED WITH PURCHASER'S ACQUISITION OF THE PROPERTY AND PURCHASER HEREBY AGREES TO INDEMNIFY THE SELLER AND BE WHOLLY RESPONSIBLE FOR ANY CLAIM BY ANY OTHER PERSON OR ENTITY FOR ANY BROKERAGE FEE SOUGHT FROM SELLER IN CONNECTION WITH PURCHASER'S ACQUISITION OF THE PROPERTY.

Article 13
Miscellaneous

13.1 Entire Agreement. This instrument contains the entire Agreement between the parties. Neither Seller nor its agents has made any representation or promise with respect to, or affecting the Subject Water Facilities or this Agreement not expressly contained herein.

13.2 Governing Law. This Agreement shall be governed by, and construed in accordance with, the internal laws of the State of Arizona without regard to conflicts of laws principles.

13.3 Headings. Headings in this Agreement are for convenience only and shall not be used to interpret or construe its provisions.

13.4 Time of Essence. Time is expressly declared to be of the essence of this Agreement.

13.5 Default; Specific Performance. If Seller defaults, Purchaser may terminate this Agreement and recover the Earnest Money and all other payments made on account of the purchase price. The preceding remedies shall be exclusive and in lieu of all other remedies provided by law, including, without limitation, the recovery of damages of any type.

If Purchaser defaults, Seller may enforce specific performance of this Agreement, or may terminate it and retain all of the Earnest Money as Seller's liquidated damages. Neither party shall then have any further right or claim against the other.

13.6 Notices. All notices, statements, requests, demands or other communications required under this Agreement shall be in writing, and shall be personally delivered, or sent by mail. Notice shall be effective (a) if personally delivered, when delivered, (b) if mailed, via 24-hour delivery, on the first business day after delivery thereof, or (c) if mailed, at midnight on the fourth business day after deposit in the mail with first-class postage pre-paid, certified mail, return receipt requested. Notices shall be addressed as follows:

If to Purchaser:

If to Seller: City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326
Attn: Roger Klingler, City Manager

Either party shall have the right to change the address at which notice shall be sent to it by giving written notice of such change of address to the other party in the same manner set forth for notices above.

13.7 Binding Effect. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and permitted assigns.

13.8 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument.

13.9 No Third Party Beneficiary. No term or provision of this Agreement is intended to be for the benefit of any person not a party hereto and no such other person shall have any right or cause of action hereunder.

13.10 Attorneys' Fees. In the event of the bringing of any action or suit by a party hereto against another party hereto by reason of any breach of any of the covenants or agreements on the part of the other party arising out of this Agreement, then, in that event, the prevailing party in such action or dispute, whether by final judgment or out-of-court settlement, shall be entitled to have and recover of and from the other party all costs and expenses of suit, including actual attorneys' fees.

13.11 Construction. The parties agree that, regardless of which party provided the initial form of this Agreement, drafted or modified one or more provisions hereof, or compiled, printed or copied this Agreement, this Agreement shall be construed solely as an offer to purchase from Purchaser, executed by Purchaser and provided to Seller for acceptance on the terms set forth herein, which acceptance and the existence of a binding agreement between Purchaser and Seller shall be evidenced by the execution hereof by Seller.

13.12 Waiver of Covenants, Conditions or Remedies. The waiver by one party of the performance of any covenant, condition or promise, or of the time for performing any act, under this Agreement shall not invalidate this Agreement nor shall it be considered a waiver by such party of any other covenant, condition or promise, or of the time for performing any other act required under this Agreement. The exercise of any remedy provided in this Agreement shall

not be a waiver of any consistent remedy provided by law, and the provisions of this Agreement for any remedy shall not exclude any other consistent remedies unless they are expressly excluded.

13.13 Legal Representation. Each party has received independent legal advice from its attorneys with respect to the advisability of executing this Agreement and the meaning of the provisions hereof. The provisions of this Agreement shall be construed as to the fair meaning and not for or against any party based upon any attribution of such party as the sole source of the language in question.

13.14 Relationship of Parties. The parties agree that their relationship is that of Seller and Purchaser, and that nothing contained herein shall constitute either party as being the agent or legal representative of the other for any purpose whatsoever, nor shall this Agreement be deemed to create any form of business organization between the parties hereto, nor is either party granted the right or authority to assume or create any obligation or responsibility on behalf of the other party, nor shall either party be in any way liable for any debt of the other

13.15 Cancellation. Seller gives notice to Purchaser that A.R.S. § 38-511 provides that Seller may, within three years after its execution, cancel any contract without penalty or further obligation made by Seller if any person significantly involved in initiating, negotiating, securing, drafting or creating the contract on behalf of Seller is at any time while the contract or any extension of the contract is in effect, an employee or agent of any other party to the contract in any capacity or a consultant to any other party to the contract with respect to the subject matter of the contract. In addition to the foregoing right to cancel a contract, Seller may recoup any fee or commission paid or due to any person significantly involved in initiating, negotiating, securing, drafting or creating the contract on behalf of Seller from any other party to the contract arising as a result of the contract

Article 14
Acceptance by Seller

14.1 Acceptance. This offer to purchase shall be irrevocable until Seller accepts or rejects the same, or until _____, 2021, whichever comes first. Upon its acceptance by Seller, this offer shall constitute the agreement between the parties upon all of the terms and conditions contained herein. If Seller does not accept this offer by the above date, it shall be deemed rejected and the Earnest Money paid hereunder shall be returned to Purchaser.

[Signatures on following pages.]

Date of Offer:_____, 2021.

_____

By: _____

Its: _____

[Purchaser]

Acceptance of Offer to Purchase

The foregoing offer to purchase is hereby accepted by the undersigned.

Date of Acceptance:_____, 2021

CITY OF BUCKEYE, ARIZONA, an Arizona municipal corporation

By: _____
Eric W. Orsborn

Its: Mayor

THEREFORE, the City of Buckeye, by its Mayor and City Clerk, have hereunto subscribed their names this _____ day of _____, 2021.

CITY:

THE CITY OF BUCKEYE, ARIZONA
an Arizona Municipal corporation

By: _____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda Aja, City Clerk

RECOMMENDED:

_____
Christopher A. Williams, Manager
Construction & Contracting Division

APPROVED AS TO FORM:

_____
City Attorney

FST:fst 3990628.5 4/20/2021

EXHIBIT A

LEGAL DESCRIPTION OF PROPERTY

EXHIBIT "A"

PARCEL NO. 1: (Sonoran Ridge Estates - Unit 1 Tract "C" (Well Site "A")

That portion of the West half of Section 33, Township 3 North, Range 2 West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona, being more particularly described as follows:

COMMENCING at the Northwest corner of said Section 33;

thence North 89 degrees 44 minutes 04 seconds East, along the North line of said West half of Section 33, a distance of 2,638.11 feet to the North quarter corner of said Section 33;

thence South 00 degrees 09 minutes 10 seconds East, along the North-South mid-section line of said Section 33, a distance of 3,403.38 feet;

thence South 89 degrees 50 minutes 50 seconds West, along a line perpendicular to the North-South mid-section line of said Section 33, a distance of 222.39 feet to the TRUE POINT OF BEGINNING;

thence South 13 degrees 27 minutes 38 seconds West, a distance of 141.42 feet;

thence North 31 degrees 32 minutes 22 seconds West, a distance of 162.29 feet;

thence South 58 degrees 10 minutes 54 seconds West, a distance of 271.34 feet to a point on a circular curve concave Southwesterly, having a central angle of 02 degrees 06 minutes 06 seconds and whose radius point bears South 58 degrees 10 minutes 54 seconds West, a distance of 545.00 feet;

thence Northwesterly along the arc of said curve, a distance of 19.99 feet to a non-tangent point;

thence North 56 degrees 04 minutes 48 seconds East, a distance of 272.03 feet;

thence North 31 degrees 32 minutes 22 seconds West, a distance of 164.07 feet;

thence South 76 degrees 32 minutes 22 seconds East, a distance of 141.42 feet;

thence South 31 degrees 32 minutes 22 seconds East, a distance of 156.34 feet to the TRUE POINT OF BEGINNING.

TOGETHER with an easement for roadway, waterline and public utilities over the following described property:

That portion of the West half of Section 33, Township 3 North, Range 2 West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona, being more particularly described as follows:

Continued . . . .

EXHIBIT "A"

COMMENCING at the Northwest corner of said Section 33;

thence North 89 degrees 44 minutes 04 seconds East, along the North line of said West half of Section 33, a distance of 2,638.11 feet to the North quarter corner of said Section 33;

thence South 00 degrees 09 minutes 10 seconds East, along the North-South mid-section line of said Section 33, a distance of 715.06 feet;

thence South 89 degrees 50 minutes 50 seconds West, along a line perpendicular to the North-South mid-section line of said Section 33, a distance of 467.17 feet to a point on a circular curve concave Southwesterly, having a central angle of 23 degrees 56 minutes 01 seconds and whose radius point bears South 60 degrees 43 minutes 06 seconds West, a distance of 783.00 feet, said point being the TRUE POINT OF BEGINNING;

thence Southwesterly along the arc of said curve, a distance of 327.08 feet to the point of tangency of said curve;

thence South 05 degrees 20 minutes 53 seconds East, a distance of 108.69 feet to the point of curvature of a circular concave Westerly having a central angle of 17 degrees 52 minutes 13 seconds and whose radius point bears South 84 degrees 39 minutes 07 seconds West, a distance of 1,533.00 feet;

thence Southwesterly along the arc of said curve, a distance of 478.13 feet to the point of tangency of said curve;

thence South 12 degrees 31 minutes 19 seconds West, a distance of 210.57 feet to the point of curvature of a circular curve concave Easterly, having a central angle of 15 degrees 05 minutes 28 seconds and whose radius point bears South 77 degrees 28 minutes 41 seconds East, a distance of 1,467.00 feet;

thence Southeasterly along the arc of said curve, a distance of 386.39 feet to the point of tangency of said curve;

thence South 02 degrees 34 minutes 09 seconds East, a distance of 458.88 feet to the point of curvature of a circular curve, concave Westerly, having a central angle of 30 degrees 22 minutes 47 seconds and whose radius point bears South 87 degrees 25 minutes 51 seconds West, a distance of 513.00 feet;

thence Southwesterly along the arc of said curve, a distance of 272.01 feet to the point of tangency of said curve;

thence South 27 degrees 48 minutes 39 seconds West, a distance of 482.60 feet to the point of curvature of a circular curve concave Northeasterly, having a central angle of 84 degrees 58 minutes 03 seconds and whose radius point bears South 62 degrees 11 minutes 21 seconds East, a distance of 17.00 feet;

Continued . . . .

EXHIBIT "A"

thence Southeasterly along the arc of said curve, a distance of 25.21 feet to the point of reversed curvature with a circular curve concave Southwesterly, having a central angle of 25 degrees 20 minutes 19 seconds and whose radius point bears South 32 degrees 50 minutes 36 seconds West, a distance of 553.00 feet;

thence Southwesterly along the arc of said curve, a distance of 244.55 feet to a non-tangent point;

thence South 58 degrees 10 minutes 54 seconds West, a distance of 66.00 feet to a point on a circular curve concave Southwesterly having a central angle of 24 degrees 15 minutes 51 seconds and whose radius point bears South 58 degrees 10 minutes 54 seconds West, a distance of 487.00 feet;

thence Northwesterly along the arc of said curve, a distance of 206.24 feet to the point of compound curvature with a circular curve concave Southeasterly having a central angle of 96 degrees 09 minutes 21 seconds and whose radius point bear South 33 degrees 55 minutes 03 seconds West, a distance of 17.00 feet;

thence Southerly along the arc of said curve, a distance of 28.53 feet;

thence North 62 degrees 05 minutes 07 seconds West, a distance of 66.00 feet;

thence North 27 degrees 48 minutes 39 seconds East, a distance of 582.96 feet to the point of curvature of a circular curve concave Westerly, having a central angle of 30 degrees 22 minutes 47 seconds and whose radius point bears North 62 degrees 11 minutes 21 seconds West, a distance of 447.00 feet;

thence Northwesterly along the arc of said curve, a distance of 237.01 feet to the point of tangency of said curve;

thence North 02 degrees 34 minutes 09 seconds West, a distance of 458.88 feet to the point of curvature of a circular curve concave Easterly, having a central angle of 15 degrees 05 minutes 28 seconds and whose radius point bears North 87 degrees 25 minutes 51 seconds East, a distance of 1,533.00 feet;

thence Northeasterly along the arc of said curve, a distance of 403.78 feet to the point of tangency of said curve;

thence North 12 degrees 31 minutes 19 seconds East, a distance of 210.57 feet to the point of curvature of a circular curve concave Westerly, having a central angle of 17 degrees 52 minutes 13 seconds and whose radius point bears North 77 degrees 28 minutes 41 seconds West, a distance of 1,467.00 feet;

thence Northeasterly along the arc of said curve, a distance of 457.55 feet to the point of tangency of said curve;

Continued . . . .

EXHIBIT "A"

thence North 05 degrees 20 minutes 53 seconds West, a distance of 108.69 feet to the point of curvature of a circular curve concave Southwesterly, having a central angle of 23 degrees 56 minutes 01 seconds and whose radius point bears South 84 degrees 39 minutes 07 seconds West, a distance of 717.00 feet;

thence Northwesterly along the arc of said curve, a distance of 299.50 feet to a non-tangent point;

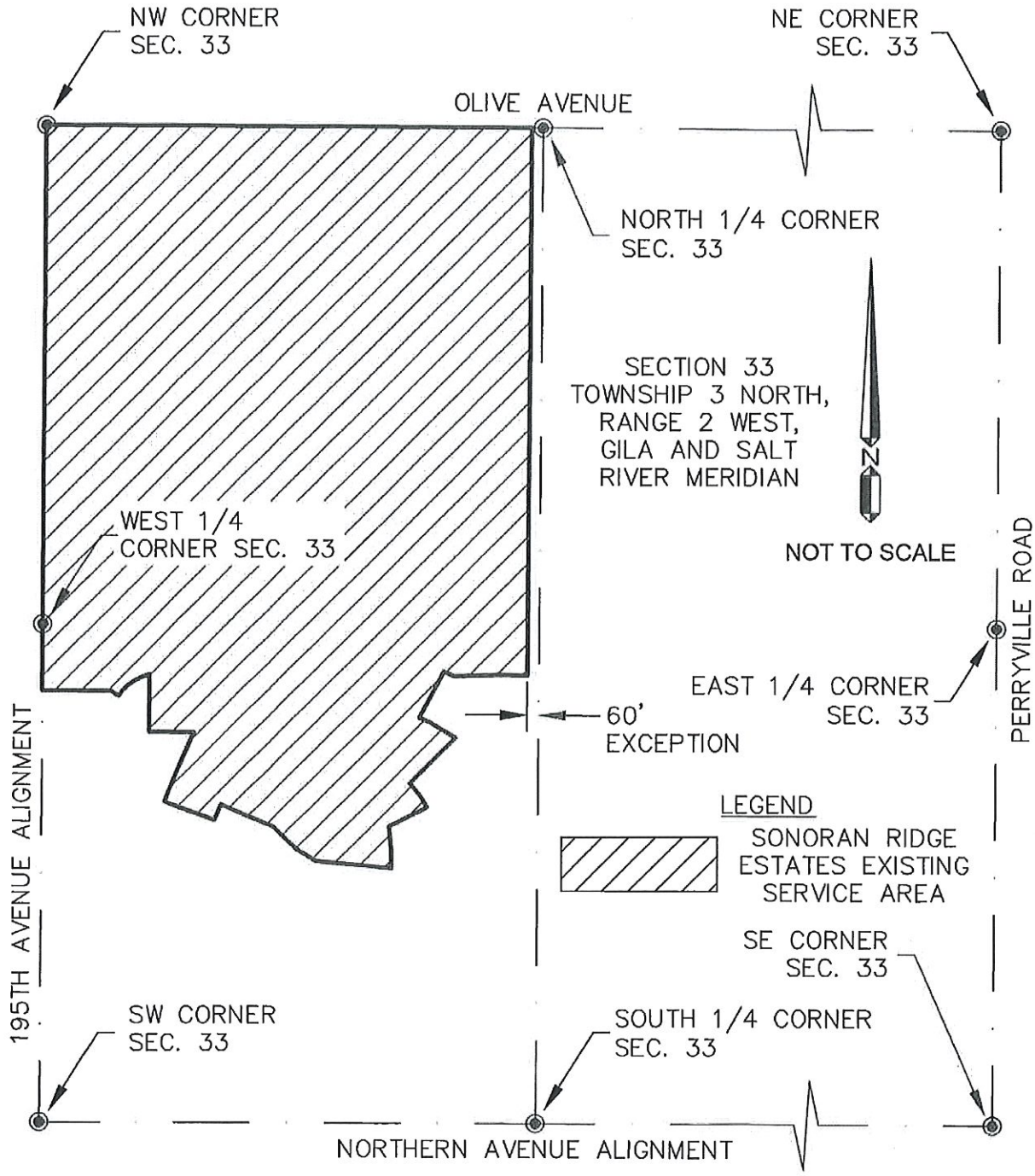
thence North 60 degrees 43 minutes 06 seconds East, a distance of 66.00 feet to the TRUE POINT OF BEGINNING.

Continued . . . .

EXHIBIT B

DEPICTION OF SERVICE AREA

SONORAN RIDGE ESTATES
EXISTING SERVICE AREA
EXHIBIT



BUCKEYE, AZ

ORIGINAL PLAN DATE	REVISION DATE
04.26.2021	04.26.2021
PROJECT	**SHEET NUMBER**
SONORAN RIDGE ESTATES	SHEET 1 OF 1

EXHIBIT C

FORM OF BILL OF SALE

BILL OF SALE

This Bill of Sale is executed and delivered as of _____, 202_ (**"Effective Date"**), by the undersigned Seller.

BACKGROUND

A. **THE CITY OF BUCKEYE, ARIZONA**, an Arizona municipal corporation (**"Seller"**), pursuant to that certain Bid Submission and Purchase Agreement Between the City of Buckeye and _____, as Purchaser (the **"Purchase Contract"**), has sold and conveyed to _____ (**"Purchaser"**) the assets listed on Exhibit "A" attached hereto (the **"Assets"**).

B. The terms and provisions of the Purchase Contract in effect between Seller and Purchaser relating to the sale and purchase of the Assets require, among other things, that Seller execute this Bill of Sale transferring to Purchaser the Assets.

C. Capitalized terms which are used in this Bill of Sale but which are not defined specifically in this Bill of Sale will be ascribed the meanings contained in the Purchase Contract.

TRANSFER AND ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Seller makes the following conveyances:

1. Transfer of Assets. Seller sells, transfers, and conveys to Purchaser, and its successors and assigns, all of the Assets.

2. Seller Warranty. Seller warrants that it is the lawful owner of the Assets and hereby certifies that it has the good right to sell the same as aforesaid, and that the Assets is free and clear of all claims, liens and other encumbrances whatsoever. Seller agrees to execute and deliver to Purchaser such certificate(s) of title or other instruments of sale, transfer, assignment and conveyance and all consents of third parties necessary thereto, in form and substance reasonably satisfactory to Purchaser, to effectively vest in Purchaser good indefeasible, marketable and merchantable title to the Assets, free and clear of all security interests, liens, claims or encumbrances of any nature or kind whatsoever, except those expressly assumed or expressly taken subject to by Purchaser in the Purchase Contract.

3. "As Is." Except as is expressly stated in this Bill of Sale and the Purchase Contract, neither Seller nor any agent representing Seller has made any understandings, warranties, agreements, promises or representations, express or implied, which induced Purchaser to enter into this Bill of Sale. By accepting the conveyance of the Assets as stated herein, Purchaser acknowledges that SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO ANY ASSETS BEING CONVEYED HEREIN, AND SPECIFICALLY

DISCLAIMS ANY WARRANTIES IMPLIED BY LAW INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE.

SELLER:

CITY OF BUCKEYE, ARIZONA, an Arizona municipal corporation

By:_____
Name:_____
Title:_____

EXHIBIT A to Bill of Sale

[List of Assets]

EXHIBIT D

FORM OF SPECIAL WARRANTY DEED

When recorded, return to:

SPECIAL WARRANTY DEED

For consideration of Ten Dollars ($10.00), and other valuable consideration, **THE CITY OF BUCKEYE, ARIZONA**, an Arizona municipal corporation (**"Grantor"**), hereby conveys to _____ (**"Grantee"**), the following real property situated in Maricopa County, Arizona, together with all appurtenant benefits, rights, and privileges (collectively, the **"Property"**):

See Exhibit "A" attached hereto and incorporated herein by this reference.

SUBJECT TO: current taxes; assessments; patent reservations; all covenants, conditions, restrictions, reservations, easements, encumbrances, liens, and declarations or other matters of record or to which reference is made in the public record; any and all conditions, easements, encroachments, rights-of-way, or restrictions which an accurate survey, of the Property would reveal.

And Grantor binds itself and its successors to warrant and defend the title to the Property solely against all acts of Grantor and no other subject to the matters above set forth.

Recordation of this deed is exempt from the requirement of filing of an affidavit of property value, pursuant to the exemption set forth in A.R.S. Section 11-1134(A)(3).

DATED this ___ day of _____, 202__.

CITY OF BUCKEYE, ARIZONA, an Arizona municipal corporation

By: _____

Name: _____

Title: _____

STATE OF ARIZONA)
) ss.
County of Maricopa)

The foregoing instrument, Special Warranty Deed, consisting of _____ pages, including this page and all Exhibits, was acknowledged before me this _____ day of _____, 202__ by _____, the _____ of the CITY OF BUCKEYE, Arizona, an Arizona municipal corporation, on behalf of the City.

_____
Notary Public

(Affix Notary Stamp Here)

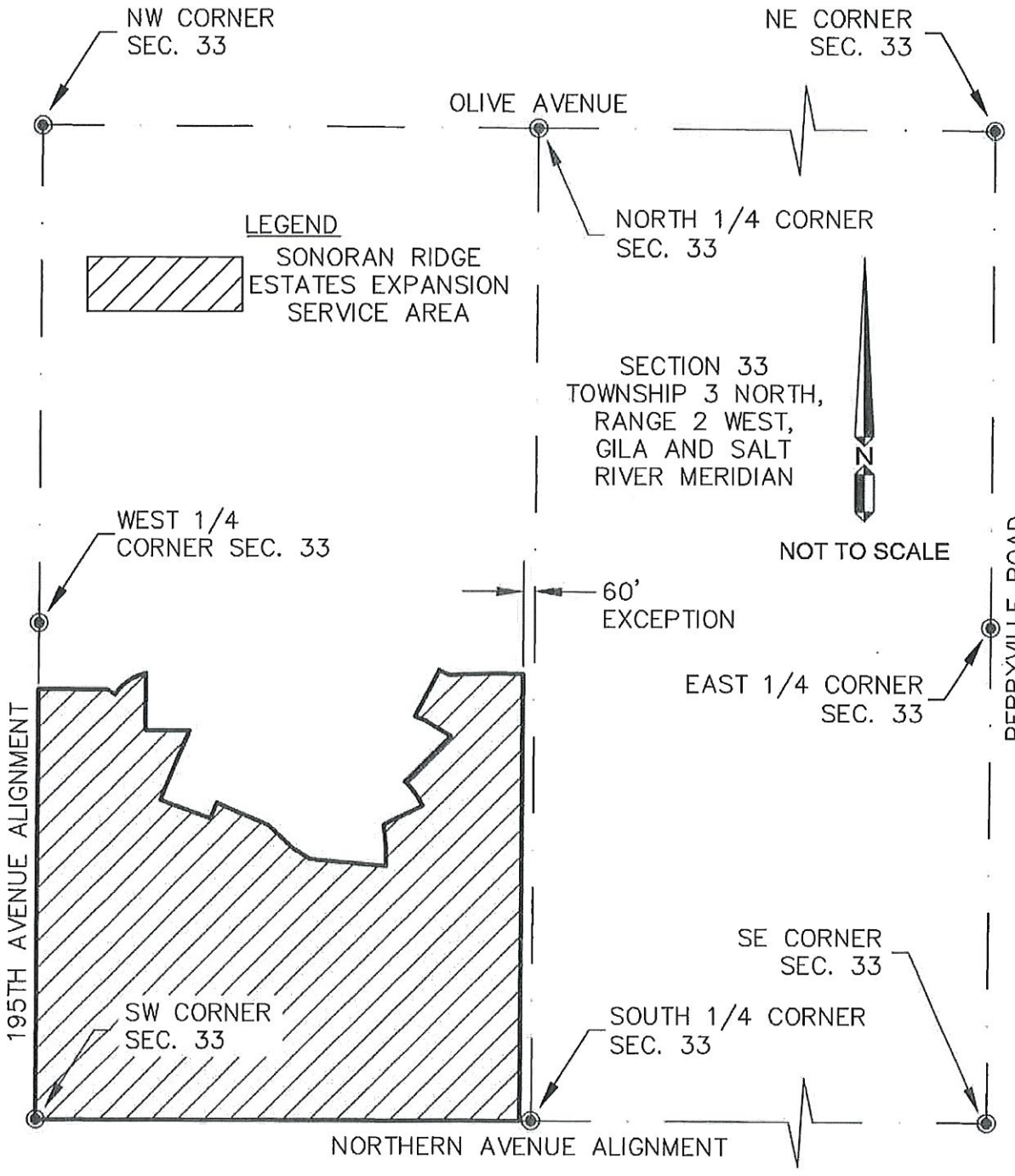
EXHIBIT A to Special Warranty Deed

Legal Description

EXHIBIT E

DEPICTION OF AREA TO BE ADDED TO SERVICE AREA

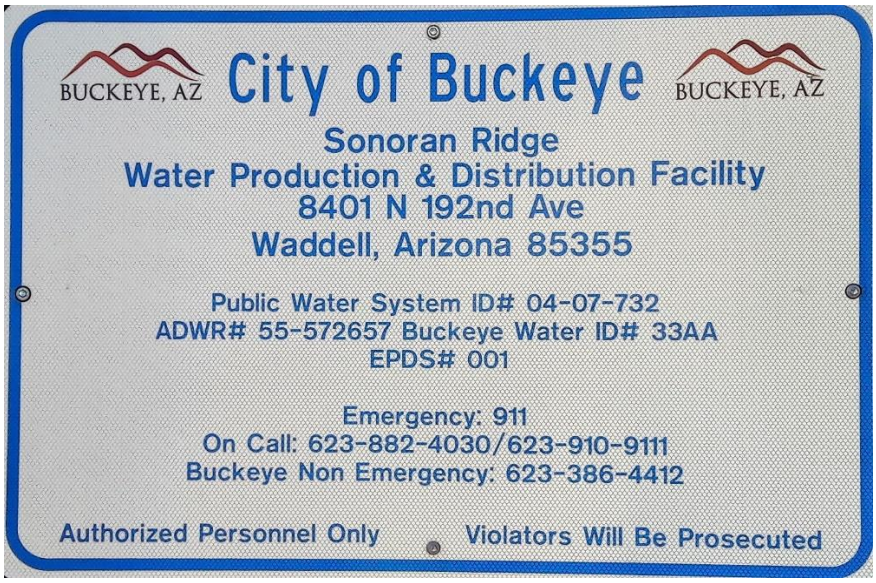
SONORAN RIDGE ESTATES EXPANSION SERVICE AREA EXHIBIT



BUCKEYE, AZ

ORIGINAL PLAN DATE	REVISION DATE
04.26.2021	04.26.2021
PROJECT	**SHEET NUMBER**
SONORAN RIDGE ESTATES	SHEET 1 OF 1

Hazen and Sawyer
1400 East Southern Avenue, Suite 340
Tempe, Arizona 85282







Valuation Study

Sonoran Ridge Water System

City of Buckeye

Final Report
February 11, 2021

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List of Acronyms

Abbreviation	Definition
ACC	Arizona Corporation Commission
ADEQ	Arizona Department of Environmental Quality
ADHS	Arizona Department of Health Services
ADWR	Arizona Department of Water Resources
ARV	air release valve
AMA	Active Management Area
Co	Company

Abbreviation	Definition
CO_2	carbon dioxide
EIT	Engineer-in-Training
EPA	United States Environmental Protection Agency
FCV	flow control valve
ft	feet
ft bls	feet below land surface
gpd	gallons per day
gpm	gallons per minute
hp	horsepower
kW	kilowatt
lf	linear feet
MCESD	Maricopa County Environmental Services Department
MCL	Maximum Contaminant Level
NaOCl	sodium hypochlorite
PE	Professional Engineer
PLC	Program Logic Control
ppb	parts per billion
psi	pounds per square inch
PWS	Public Water System
rpm	revolutions per minute
TDH	total design head

1. Introduction

The City of Buckeye (City) retained Hazen and Sawyer (Hazen) for engineering services to assist in determining fair value for the Sonoran Ridge water system. This is a separate small, individual water system acquired by the City as a part of the larger acquisition of the Global Water Resources systems in the Buckeye area. The Sonoran Ridge system serves an area of approximately 0.30 square miles, originally developed in the early 2000s. The system includes a single water production facility and distribution pipelines serving approximately 61 service connections. The customers are exclusively residential. The Sonoran Ridge system is remote from the main portion of the City's water system, and the City is considering selling this system to another entity that may be able to operate it efficiently.

Hazen performed on-site observations at the Sonoran Ridge Arsenic Removal System on February 21, 2018. Joey Romo, Water Production Supervisor for the City, attended the site visit along with Bhaskar Kolluri, PE, Regina Shnayderman (EIT) and Elisabeth Lynn (EIT), of Hazen.

2. Sonoran Ridge Water System

On July 15, 2015, the City of Buckeye purchased the Sonoran Ridge Public Water System, Arizona PWS #04-07-732. The system is in the Phoenix Active Management Area (AMA), West Salt River Sub-Basin, and the Agua Fria River watershed. Certificate of Convenience and Necessity maps for private water utilities in the vicinity of the Sonoran Ridge system are shown in Figure 2-1.

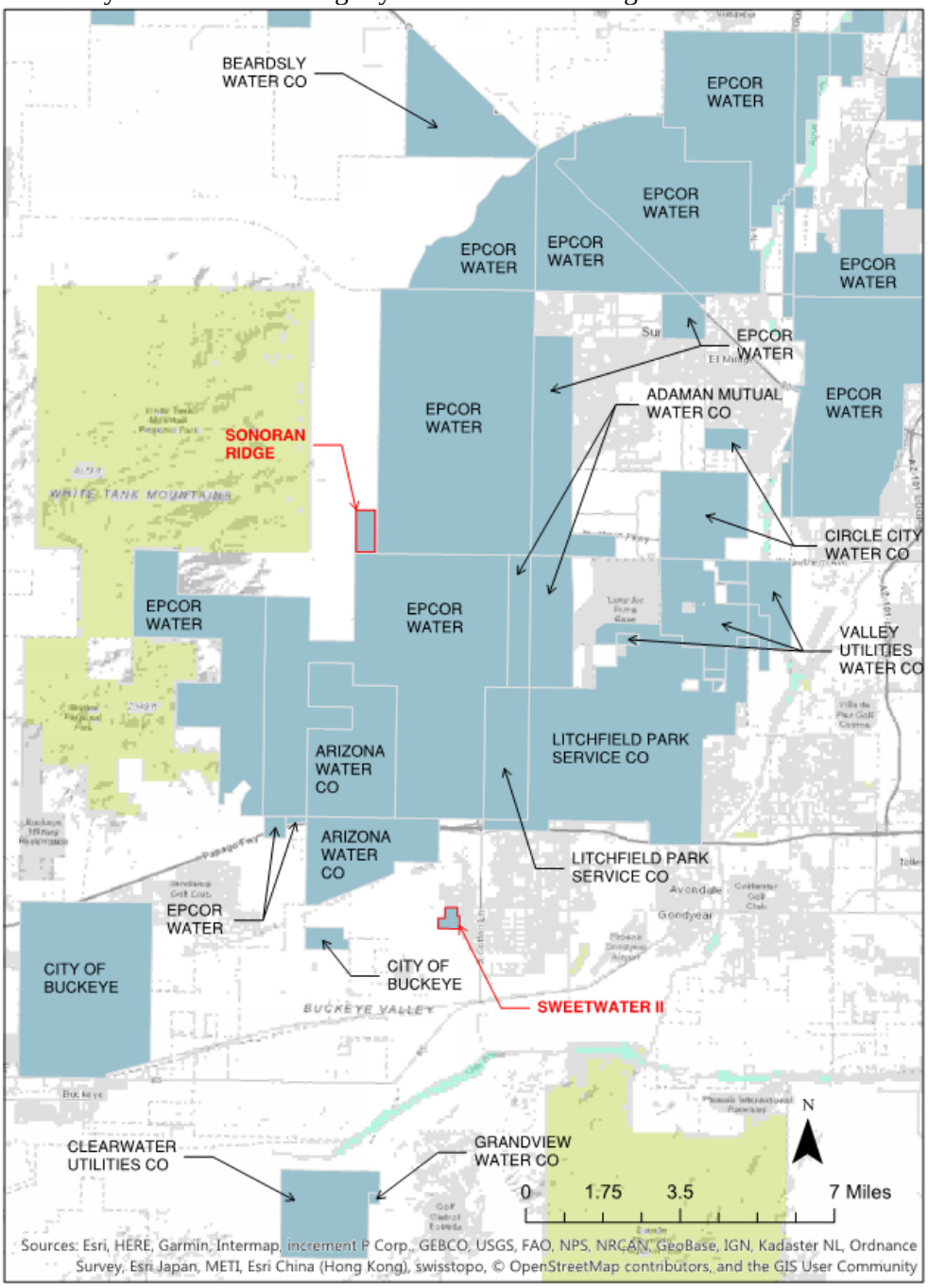


Figure 2-1 Private Water Utilities in the Buckeye Area

The distribution system is comprised of approximately 3.2 miles of ductile iron pipe and delivers water to a population of 232, with 61 connections. The water production facility includes a groundwater well, sediment pre-filters, arsenic treatment vessels, disinfection, storage, booster pumps, and a hydropneumatic tank. A site plan of the facility is shown in Figure 2-2.

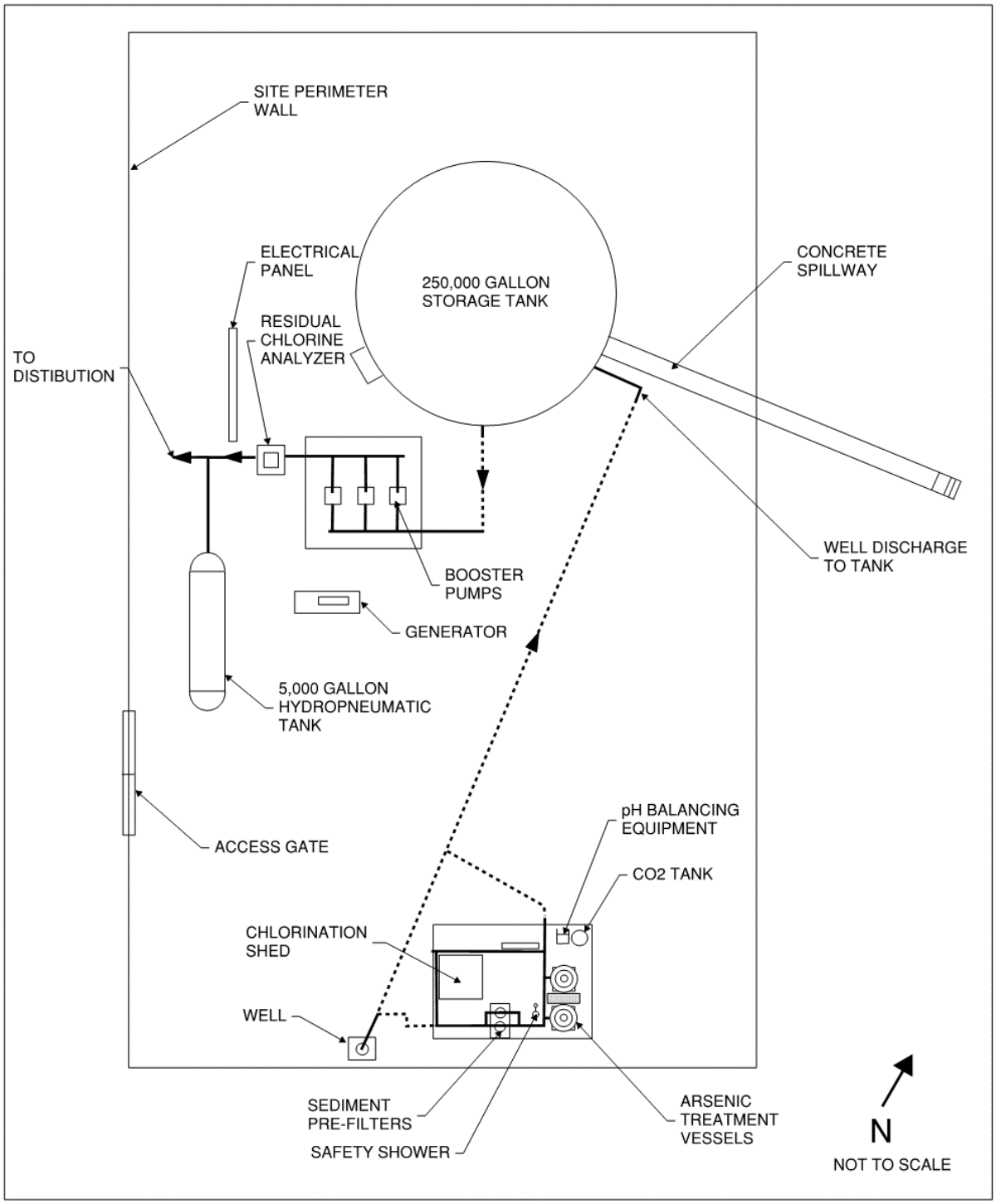


Figure 2-2 Sonoran Ridge Water Production Site

2.1 Well

The well (ADWR No. 55-572657) was drilled in 1999 under Recovery Well Permit #74-580639. The well depth is 850 ft bls with a casing depth of 700 ft bls. The casing is 6-inch diameter perforated or slotted steel. The intended capacity of the well is 200 gpm. The water level is 443 ft bls. It is a non-exempt service well. In 2005, the permit was revised based on the request to increase acre-ft from 9.76 to 75 acre-ft.

The well is equipped with a submersible well pump rated at 150 gpm. The pump is activated based on the level in the ground storage tank. Figure 2-3 shows the well head and discharge piping.



Figure 2-3 ADWR Well No. 55-752657

The total water pumped for years 2008-2013 is presented in Table 2-1.

Table 2-1 Well Pumping Totals

Year	2008	2009	2010	2011	2012	2013
Total Water Pumped [acre-ft]	46.83	25.52	23.87	25.68	27.86	26.15
Total Water Pumped [gpd]	41,693	22,783	21,310	22,929	24,804	23,345

2.2 On-Site Arsenic Removal System

The Sonoran Ridge arsenic removal system was constructed in 2008. The native groundwater arsenic concentration is typically less than 20 ppb; the EPA Maximum Contaminant Level (MCL) for arsenic is 10 ppb. The arsenic removal system has a split-treatment arrangement; the bypass receives a flow of 80 gpm, while the remaining 70 gpm is treated for arsenic removal. The treated and bypass water lines are blended prior to entering the storage tank. The process flow diagram for the arsenic removal system is presented in Figure 2-4.

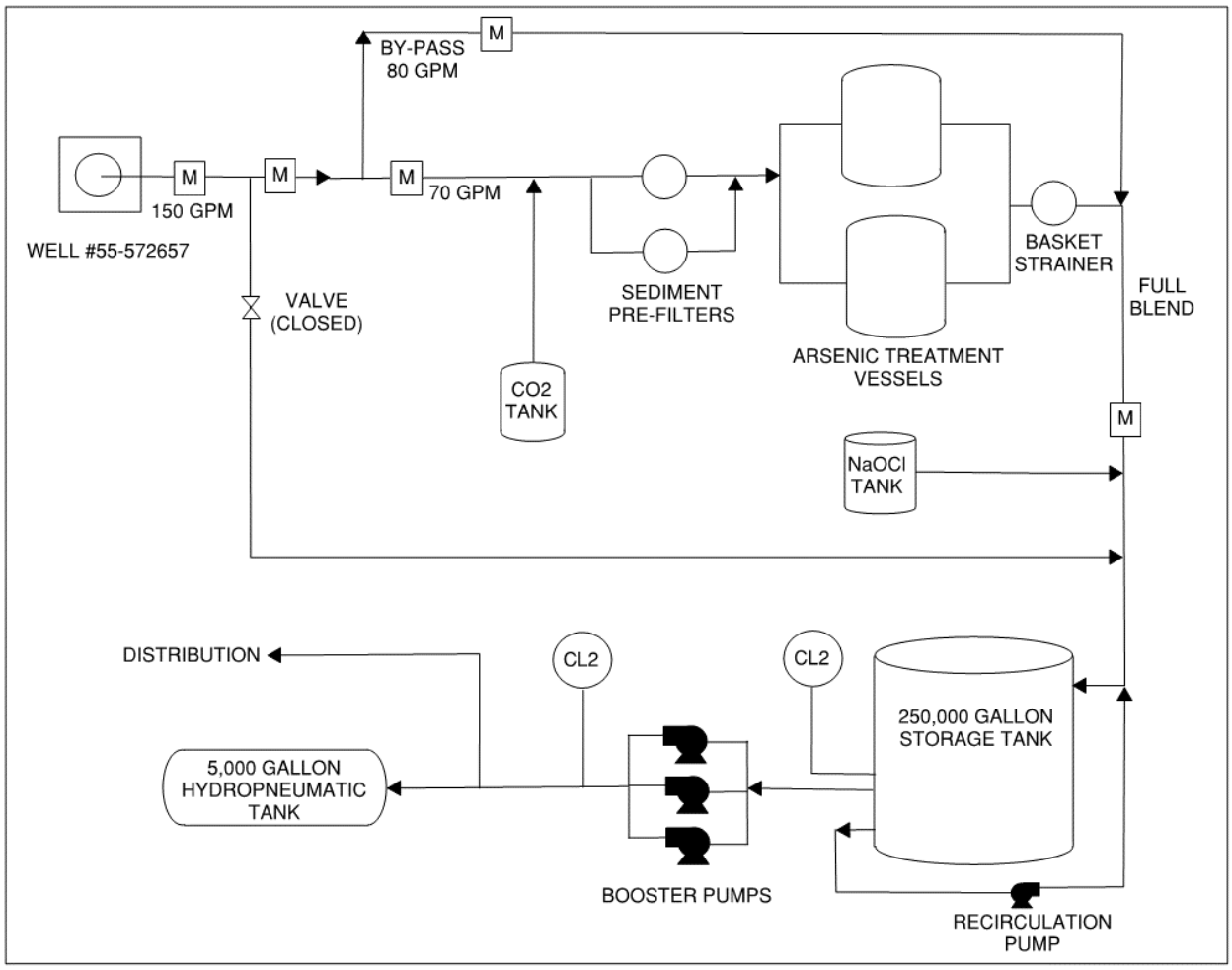


Figure 2-4 Arsenic Removal System Process Flow Diagram

2.2.1 Arsenic Treatment

Prior to arsenic treatment, carbon dioxide is injected into the raw water to lower the pH. Reducing the pH increases the rate of arsenic adsorption onto the filter media, thereby increasing removal efficiency. The CO_2 tank is refilled approximately every 2-3 months. The tank is stainless steel, approximately 3 ft in diameter, 5 ft tall, and manufactured by MicroBulk Solutions. Figure 2-5 shows the CO_2 tank (left) and the point of injection (right).

The raw water is then filtered through sediment bag filters, presented in Figure 2-6 (left). The normal pressure drop across the bag filters is 7 psi, with a maximum of 15 psi.

The two arsenic treatment vessels have an approximate height of 6 ft with a diameter of 4 ft. They are rated for 100 psi. They are typically operated in a lead-lag sequence. Arsenic concentrations are reported every two weeks. Figure 2-6 (right) and Figure 2-7 show the treatment vessels.

The arsenic adsorption media cannot be backwashed; it must be removed for regeneration/replacement. The arsenic removal media currently in place is LayneOx™.



Figure 2-5 CO_2 Tank (left) & CO_2 Injection Point (right)



Figure 2-6 Pre-Sediment Filters (left) & Arsenic Treatment Vessels (right)



Figure 2-7 Arsenic Treatment Vessels

2.2.2 Disinfection

Chlorine is added to the blended water as a 12.5% sodium hypochlorite (NaOCl) solution. The plant typically doses about 20 gallons per month. The disinfectant metering equipment is located in the chlorination shed, on the treatment slab, as seen in Figure 2-8 (left). The metering pump is manufactured by Stenner Pump Company. It has a rated capacity of 17 gpd at 100 psi. NaOCl is injected downstream of the bypass blending, see Figure 2-8 (right).



Figure 2-8 Chlorination Shed (left) & NaOCl Injection Point

2.3 Storage Tank

Treated water is stored on-site in a 250,000-gallon welded-steel ground storage tank shown in Figure 2-9 (left). The tank level is monitored by a pressure transducer. The well pump is set to maintain the tank water level between 20.5 ft and 22.5 ft. The tank has an overflow pipe that discharges to a concrete spillway.

The tank is equipped with a 0.5 hp recirculation pump as shown in Figure 2-9 (right). Because this plant has not experienced any disinfection byproduct issues, the recirculation pump typically is not used.

The tank discharge is through a 10-inch line.

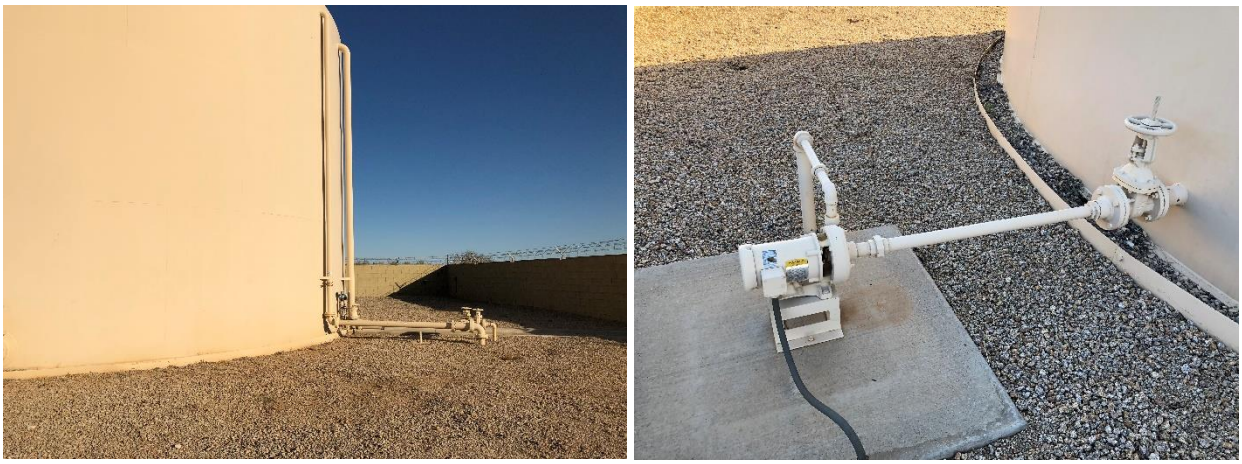


Figure 2-9 Storage Tank Inlet (left) & Recirculation Pump (right)

2.4 Booster Pumps

The booster station (Figure 2-10, left) is comprised of three, 20 hp, 3500 rpm centrifugal pumps. The pumps were manufactured by Berkeley Pumps and the motors by Baldor Electric Company. The impeller diameter is 7.5 inches. The manufacturer's pump curve is attached in Appendix D.

The pumps feed the distribution system via a 5,000-gallon hydropneumatic tank (Figure 2-10, right). This tank is equipped with a 0.75 hp air compressor and a set of level probes. The pressure is maintained at about 68 psi.



Figure 2-10 Booster Pumps (left) & Hydropneumatic Tank (right)

2.5 Instruments, Electrical Equipment, and Controls

The control panel is located on the treatment skid and contains the PLC (Figure 2-11, left). There is a Mercoid pressure switch control as a mechanical backup to the PLC.

At the booster pump station, a residual chlorine analyzer manufactured by Endress & Hauser (Figure 2-11, right) is housed in a stainless steel cabinet.

Electrical redundancy is provided by a 67-kW diesel powered generator, manufactured by Cummins Inc. (Figure 2-12). The generator receives an annual oil change along with a load bank test.



Figure 2-11 Control Panel (left) & Residual Chlorine Analyzer (right)



Figure 2-12 Diesel Generator

2.6 Distribution System

The distribution system is comprised of approximately 3.2 miles of ductile iron pipe and delivers water to a population of 232, with 61 connections. Table 2-2 below identifies the length of distribution pipes by diameter. A map of the distribution system is shown in Figure 2-13 with pipe measurements presented in Appendix A.

Table 2-2 Sonoran Ridge Distribution Network

Pipe Diameter	Linear Feet
6"	10,725
8"	2,025
10"	3,660
12"	580

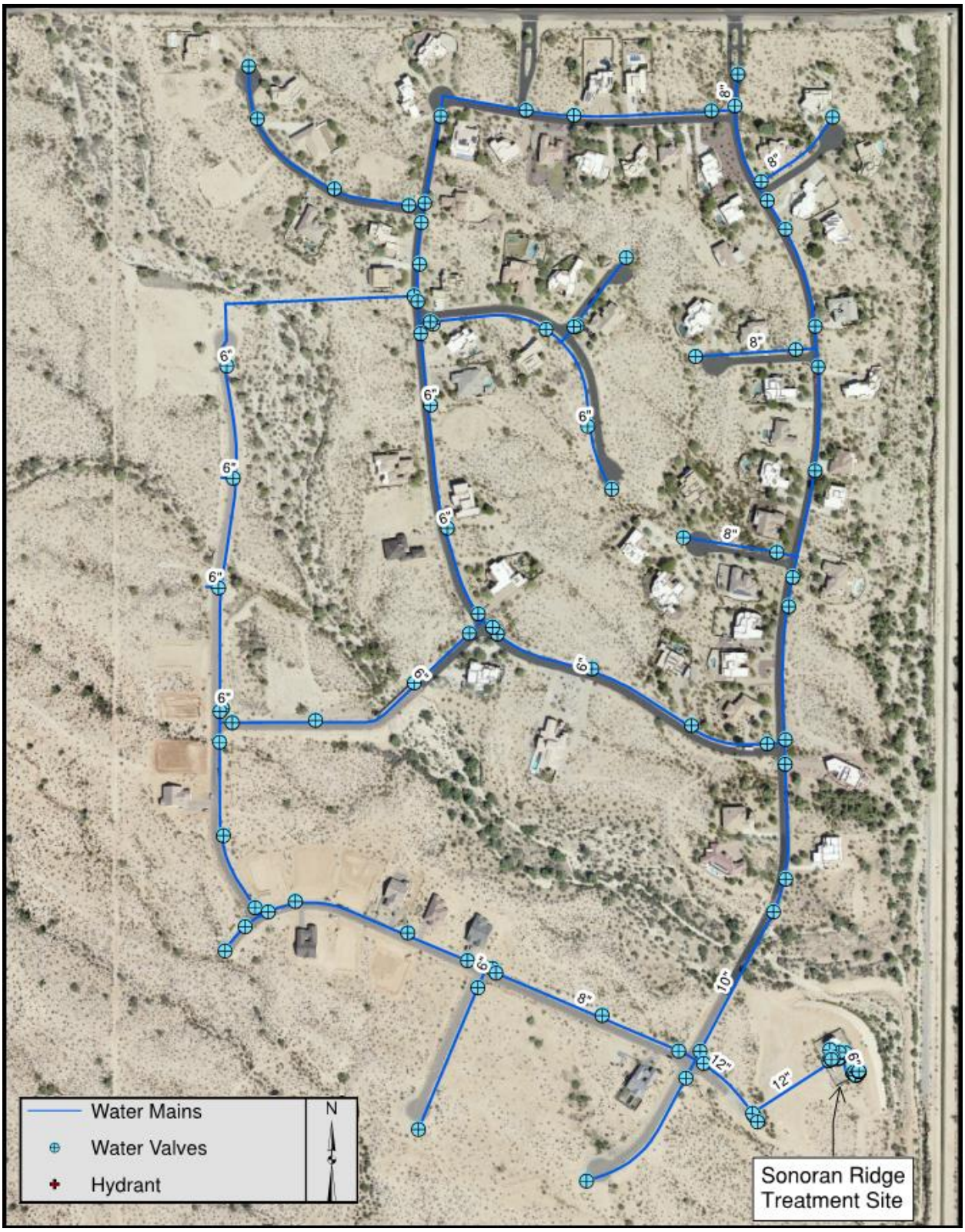


Figure 2-13 Distribution Network Map

2.7 Recommendations

Recommended improvements to the Sonoran Ridge arsenic removal system include:

- Installation of air release valves (ARVs) at the high points in the process piping, specifically at the discharge of the well pump and at the suction and discharge headers of the booster station. The ARVs are intended to protect the system piping. Trapped air can cause pump failures, corrosion, flow issues, and pressure surges. Furthermore, unnecessary air in the system reduces the efficiency of pumps, causing additional energy consumption.
- Add cathodic protection to the ground storage tank to prevent corrosion.

3. Valuation

Upon completion of the site visit and visual condition assessment, Hazen developed an asset register for the Sonoran Ridge System presented in Table 3-1. For each asset included in the register, estimates were developed for the remaining useful life; total replacement cost, including installation costs; and the depreciated value of the system. These values were updated in February 2021.

It was assumed that all process equipment was installed in 2008, except the well, which was drilled in 1999 per ADWR records. Useful life was approximated based on asset category and used to determine remaining useful life.

Equipment costs were estimated by the current market prices to match the assets in kind. The installation costs are the required labor and equipment costs associated with new asset installation. The sum of the equipment and installation costs determine the total cost of replacement. Detailed cost estimation tables are available in Appendix B.

The salvage value was assumed to be zero. The current value after depreciation, the depreciated value, was calculated based on a straight-line depreciation rate. This rate is determined by dividing the equipment cost (minus salvage value) by the useful life.

The estimated total replacement cost for the system is $2,532,840 and the depreciated value is $1,481,414. This is for the complete system.

Table 3-1 Sonoran Ridge Asset Register

Asset	Information	Current Condition	Useful Life [years]	Remaining Useful Life [years]	Equipment Replacement Cost [$]	Installation Costs [$]	Total Replacement Cost [$]	Straight-Line Depreciation Rate [$/year]	Depreciated Value [$]
Well	Well Depth: 800 ft Casing Depth: 700 ft 6" Diameter Casing	Fair	50	31	$332,400	$0	**$332,400**	$6,648	**$206,088**
Submersible Well Pump	150 gpm, 30hp	Fair	25	15	$79,960	$18,320	**$98,300**	$3,198	**$47,976**
Well Flow Meter	4" Mag Meter	Fair	25	15	$4,000	$540	**$4,600**	$160	**$2,400**
Flow Meter (FIT-100)	3" Mag Meter	Fair	25	15	$3,800	$540	**$4,400**	$152	**$2,280**
Bypass Flow Meter (FIT-200)	2" Mag Meter	Fair	25	15	$3,200	$540	**$3,800**	$128	**$1,920**
Full Blend Flow Meter (FIT-400)	3" Mag Meter	Fair	25	15	$3,800	$540	**$4,400**	$152	**$2,280**
Treatment Flow Meter (FIT-300)	2" Mag Meter	Fair	25	15	$3,200	$540	**$3,800**	$128	**$1,920**
Sediment Pre-Filter No. 1	Approx. 12" diameter, 70gpm bag filter 3' tall	Fair	25	15	$6,500	$2,740	**$9,300**	$260	**$3,900**
Sediment Pre-Filter No. 2	Approx. 12" diameter, 70gpm bag filter 3' tall	Fair	25	15	$6,500	$2,740	**$9,300**	$260	**$3,900**
Carbon Dioxide Tank	MicroBulk Solutions Perma-Cyl, Approx. 3' diameter, 5' tall	Fair	30	20	$5,000	$790	**$5,800**	$167	**$3,333**
Arsenic Treatment Vessel No. 1	Approx. 4' diameter, 70gpm, 6' tall, rated at 100 psi	Fair	30	20	$69,120	$3,260	**$72,400**	$2,304	**$46,080**

Asset	Information	Current Condition	Useful Life [years]	Remaining Useful Life [years]	Equipment Replacement Cost [$]	Installation Costs [$]	Total Replacement Cost [$]	Straight-Line Depreciation Rate [$/year]	Depreciated Value [$]
Arsenic Treatment Vessel No. 2	Approx. 4' diameter, 70gpm, 6' tall, rated at 100 psi	Fair	30	20	$69,120	$3,260	**$72,400**	$2,304	**$46,080**
Basket Strainer	On a 4" line	Fair	35	25	$750	$360	**$1,200**	$21	**$536**
Chlorination Shed	56 sf (8'x7'), plastic shed	Fair	25	15	$1,500	$1,350	**$2,900**	$60	**$900**
Sodium hypochlorite dosing equipment	Hypo totes, Stenner Pump Co Model SVP4, 17 gpd @ 100 psi, Secondary Containment, Analyzer equipment	Fair	25	15	$13,100	$3,350	**$16,500**	$524	**$7,860**
Safety Shower/Eye-Wash		Fair	25	15	$2,000	$750	**$2,800**	$80	**$1,200**
Control Panel	PLC, Mercoid control (backup)	Fair	25	15	$50,000	$3,840	**$53,900**	$2,000	**$30,000**
Storage Tank	250,000 gallons, MOC: steel, Pressure Transducer	Fair	75	65	$290,000	$25,140	**$315,200**	$3,867	**$251,333**
Recirculation Pump	0.75 hp, centrifugal, Baldor Electric Co.	Fair	25	15	$500	$510	**$1,100**	$20	**$300**
Residual Chlorine Analyzer	Endress & Hauser Flowfit W CCA250	Fair	25	15	$1,500	$540	**$2,100**	$60	**$900**

Asset	Information	Current Condition	Useful Life [years]	Remaining Useful Life [years]	Equipment Replacement Cost [$]	Installation Costs [$]	Total Replacement Cost [$]	Straight-Line Depreciation Rate [$/year]	Depreciated Value [$]
Booster Pump No. 1	Berkeley Pump Co, Baldor Electric Co, 20 hp, 3525 rpm, 7.5" Impeller, centrifugal	Fair	25	15	$25,000	$2,040	**$27,100**	$1,000	**$15,000**
Booster Pump No. 2	Berkeley Pump Co, Baldor Electric Co, 20 hp, 3525 rpm, 7.5" Impeller, centrifugal	Fair	25	15	$25,000	$2,040	**$27,100**	$1,000	**$15,000**
Booster Pump No. 3	Berkeley Pump Co, Baldor Electric Co, 20 hp, 3525 rpm, 7.5" Impeller, centrifugal	Fair	25	15	$25,000	$2,040	**$27,100**	$1,000	**$15,000**
Hydropneumatic Tank	5,000 gallons Level probe	Fair	75	65	$20,000	$3,260	**$23,300**	$267	**$17,333**
Air Compressor	0.75 hp	Fair	25	15	$2,000	$750	**$2,800**	$80	**$1,200**
Electrical Panel		Fair	25	15	$15,000	$3,840	**$18,900**	$600	**$9,000**
Diesel Generator	Cummins Power Generator, 67 kW	Fair	30	20	$20,000	$2,220	**$22,300**	$667	**$13,333**
Perimeter Site Wall	520 LF of 6' CMU wall with barbed wire	Fair	75	65	$23,400	$26,110	**$49,600**	$312	**$20,280**
Access Gate	Chain-linked Fence Gate, No automation	Fair	75	65	$750	$480	**$1,300**	$10	**$650**
Treatment Slab	25' x 18'	Fair	75	65	$6,730	$4,990	**$11,800**	$90	**$5,833**

Asset	Information	Current Condition	Useful Life [years]	Remaining Useful Life [years]	Equipment Replacement Cost [$]	Installation Costs [$]	Total Replacement Cost [$]	Straight-Line Depreciation Rate [$/year]	Depreciated Value [$]
Booster Station Slab	18' x 18' (approx.)	Fair	75	65	$4,900	$3,720	**$8,700**	$65	**$4,247**
Concrete Spillway	3.5' x 60' (approx.)	Fair	75	65	$3,530	$3,280	**$6,800**	$47	**$3,059**
Above ground plant piping	3" DIP 4" DIP 10" DIP	Fair	50	40	$17,470	$5,370	**$22,900**	$349	**$13,976**
Process control valves	10" gate valve, 3" FCVs, 4" FCVs	Fair	35	25	$12,080	$15,380	**$27,500**	$345	**$8,629**
SUBTOTAL – TREATMENT FACILITY							**$1,293,800**	--	**$803,726**
Distribution Pipe - 6"	10,725 lf	Fair	50	33	$472,000	$120,930	**$592,930**	$9,440	**$311,520**
Distribution Pipe - 8"	2,025 lf	Fair	50	33	$127,300	$26,230	**$153,530**	$2,546	**$84,018**
Distribution Pipe - 10"	3,660 lf	Fair	50	33	$352,400	$53,010	**$405,410**	$7,048	**$232,584**
Distribution Pipe - 12"	580 lf	Fair	50	33	$75,100	$12,070	**$87,170**	$1,502	**$49,566**
SUBTOTAL – DISTRIBUTION SYSTEM							**$1,239,040**	**--**	**$677,688**
TOTAL							**$2,532,840**	**--**	**$1,481,414**

4. Regulatory Evaluation

Based on regulatory requirements, "used and useful" criteria, and the standard procedures of the Arizona Corporation Commission (ACC), Hazen estimated the value of the Sonoran Ridge system with respect to a potential sale to a private water utility that might seek to acquire it.

The City of Buckeye Engineering Design Standards for Water, Section 3-1 (December 2012) were used to determine the required demands for average day, max day peak hour, and fire flow demands. The land use category applicable for the Sonoran Ridge development area is "low and medium density (less than 8 dwelling units per acre)". The residential demand per dwelling unit was multiplied by the number of units projected for the next five years. The projected growth rate for each year was assumed to be 5%. The demand and storage requirements are presented in Table 4-1.

The required storage capacity was determined from the City of Buckeye's Engineering Design Standards for Steel Storage Tanks, Section 3-3 (December 2012). Section 3-3.101.A.2 defines criteria for calculating the ultimate storage requirement. The largest volume was for the fire flow storage scenario, which includes 25% of the max day demand plus four hours of fire flow.

Table 4-1 Demand and Storage Requirements

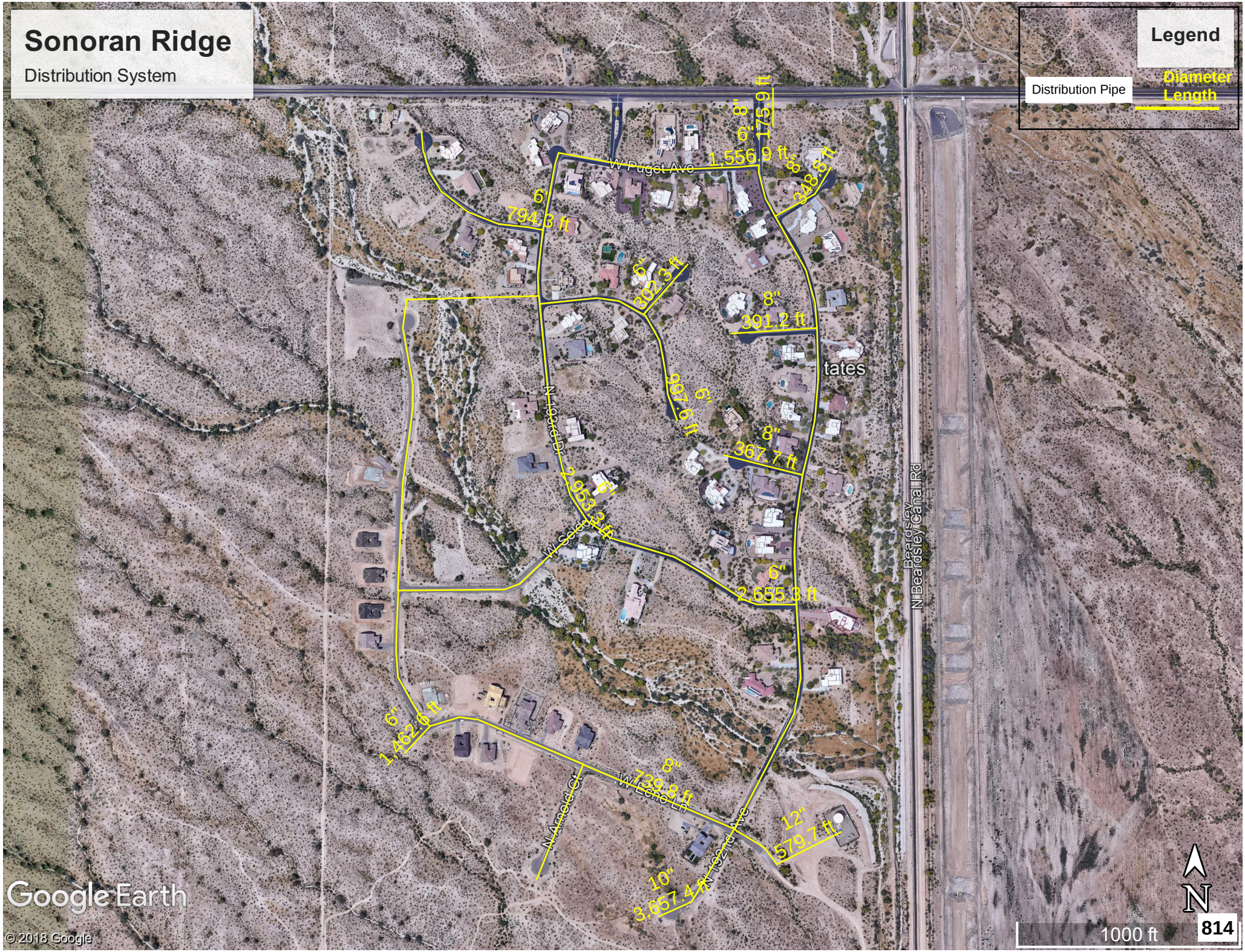
Parameter	Value
Number of Dwelling Units	61
No. of Units - 5-years projected growth with 5% growth	78
Average Day Residential Demand	37,440 [gpd]
Max Day Demand	67,392 [gpd]
Peak Hour Demand	112,320 [gpd]
Fire Flow Demand	1,500 [gpm]
Max Day Plus Fire Flow Demand	1546.8 [gpm]
Storage Requirement	376,848 [gal]

The well pump is capable of pumping 108,000 gpd based on pumping 12-hours per day. The max day demand is for the system is 67,392 gpd. There is an excess pump capacity of 40,608 gpd, meaning the well can be equipped with a smaller pump.

The storage tank is undersized; an additional 126,848 gal of storage is needed to meet the required storage volume for fire flow of 376,848 gal.

The maximum static head in the distribution network is 38 ft, with an approximate headloss of 56.8 ft, based on a headloss of 10 ft per 1,000 ft of pipe (Section 3-1.202.D.1.b). The minimum pressure in the distribution system for average day, max day, and peak hour demands is 50 psi (Section 3-1.203D.1). The minimum pressure for fire flows is 20 psi. This equates to required pumping heads of 210.5 ft and 141 ft for fire flow. The current booster pumps are capable of providing 1,000 gpm at 180 ft TDH. This does not meet the fire flow requirements of 1,546 gpm. The pump curve for the booster pumps is included in Appendix D.

Appendix A: Sonoran Ridge Distribution Network Pipe Lengths



Sonoran Ridge
Distribution System
Legend
Distribution Pipe
Diameter
Length
8"
175.9 ft
6"
1,556.9 ft
8"
348.8 ft
W Puget Ave
6"
794.3 ft
6"
302.3 ft
8"
391.2 ft
tates
6"
997.6 ft
8"
367.7 ft
N 193rd Dr
6"
2,953.3 ft
W Selden
6"
2,655.3 ft
Beardsley
N Beardsley Canal Rd
6"
1,462.6 ft
8"
739.8 ft
W Echo Ln
N Arnold Ct
12"
579.7 ft
N 192nd Ave
10"
3,657.4 ft
Google Earth
© 2018 Google
N
1000 ft
814

Appendix B: Cost Estimation Data

TAKEOFF WORKSHEET	Quantity	Unit	Notes	Calculations							Labor Unit Cost	Material Unit Cost	Equipment Unit Cost	Total Unit Cost	Labor Total	Material Total	Equipment Total	Total Cost
Item Description																		
Well	**1**	**ea**	Based upon Simi Valley adjusted for AZ	$ 332,400.00	$ -	$ 332,320.00	SIMI FACTOR					$ 332,320		$ 332,320	$ -	$ 332,320	$ -	$ 332,320
Submersible Well Pump	**1**	**ea**	150 gpm, 30hp	$ 98,300.00	$ 18,320.00	$ 79,960.00	CHINO FACTOR		0.25	pd	$ 14,353	$ 79,953	$ 3,963	$ 98,270	$ 14,353	$ 79,953	$ 3,963	$ 98,270
Well Flow Meter	**1**	**ea**	4" Mag Meter	$ 4,600.00	$ 540.00	$ 4,000.00	INSTRUMART		2	pd	$ 463	$ 4,000	$ 75	$ 4,538	$ 463	$ 4,000	$ 75	$ 4,538
Flow Meter (FIT-100)	**1**	**ea**	3" Mag Meter	$ 4,400.00	$ 540.00	$ 3,800.00	INSTRUMART		2	pd	$ 463	$ 3,800	$ 75	$ 4,338	$ 463	$ 3,800	$ 75	$ 4,338
Bypass Flow Meter (FIT-200)	**1**	**ea**	2" Mag Meter	$ 3,800.00	$ 540.00	$ 3,200.00	INSTRUMART		2	pd	$ 463	$ 3,200	$ 75	$ 3,738	$ 463	$ 3,200	$ 75	$ 3,738
Full Blend Flow Meter (FIT-400)	**1**	**ea**	3" Mag Meter	$ 4,400.00	$ 540.00	$ 3,800.00	INSTRUMART		2	pd	$ 463	$ 3,800	$ 75	$ 4,338	$ 463	$ 3,800	$ 75	$ 4,338
Treatment Flow Meter (FIT-300)	**1**	**ea**	2" Mag Meter	$ 3,800.00	$ 540.00	$ 3,200.00	INSTRUMART		2	pd	$ 463	$ 3,200	$ 75	$ 3,738	$ 463	$ 3,200	$ 75	$ 3,738
Sediment Pre-Filter No. 1	**1**	**ea**	Approx. 12" diameter, 70gpm bag filter 3' tall	$ 9,300.00	$ 2,740.00	$ 6,500.00	GLENDALE		1	pd	$ 2,048	$ 6,500	$ 691	$ 9,239	$ 2,048	$ 6,500	$ 691	$ 9,239
Sediment Pre-Filter No. 2	**1**	**ea**	Approx. 12" diameter, 70gpm bag filter 3' tall	$ 9,300.00	$ 2,740.00	$ 6,500.00	GLENDALE		1	pd	$ 2,048	$ 6,500	$ 691	$ 9,239	$ 2,048	$ 6,500	$ 691	$ 9,239
Carbon Dioxide Tank	**1**	**ea**	MicroBulk Solutions Perma-Cyl, Approx. 3' diameter, 5' tall	$ 5,800.00	$ 790.00	$ 5,000.00	35.34291735	264.3825028	2	pd	$ 481	$ 5,000	$ 308	$ 5,789	$ 481	$ 5,000	$ 308	$ 5,789
pH Balancing Equipment		**ea**	0		$ -	$ -								$ -	$ -	$ -	$ -	$ -
Arsenic Treatment Vessel No. 1	**1**	**ea**	Approx. 4' diameter, 70gpm, 6' tall, rated at 100 psi	$ 72,400.00	$ 3,260.00	$ 69,120.00	CWA FACTOR		1	pd	$ 2,568	$ 69,115	$ 691	$ 72,373	$ 2,568	$ 69,115	$ 691	$ 72,373
Arsenic Treatment Vessel No. 2	**1**	**ea**	Approx. 4' diameter, 70gpm, 6' tall, rated at 100 psi	$ 72,400.00	$ 3,260.00	$ 69,120.00	CWA FACTOR		1	pd	$ 2,568	$ 69,115	$ 691	$ 72,373	$ 2,568	$ 69,115	$ 691	$ 72,373
Basket Strainer	**1**	**ea**	On a 4" line	$ 1,200.00	$ 360.00	$ 750.00	GRAINGER		4	pd	$ 336	$ 750	$ 19	$ 1,105	$ 336	$ 750	$ 19	$ 1,105
Chlorination Shed	**1**	**ea**	56 sf (8'x7'), plastic shed	$ 2,900.00	$ 1,350.00	$ 1,500.00	GRAINGER		1	pd	$ 736	$ 1,500	$ 609	$ 2,845	$ 736	$ 1,500	$ 609	$ 2,845
Sodium hypochlorite dosing equipment			Hypo totes, Stenner Pump Co Model SVP4, 17 gpd @ 100 psi, Secondary Containment, Analyzer equipment	$ 16,500.00	$ 3,350.00	$ 13,100.00									$ 2,895	$ 13,100	$ 450	**$ 16,445**
Tote	2	ea			$ 240.00	$ 2,600.00	ULINE		8	pd	$ 79	$ 1,300	$ 38	$ 1,417	$ 159	$ 2,600	$ 75	$ 2,834
Pump	2	ea			$ 2,040.00	$ 7,000.00			2	pd	$ 904	$ 3,500	$ 113	$ 4,517	$ 1,809	$ 7,000	$ 225	$ 9,034
Secondary Containment		cy	Included with tote		$ -	$ -								$ -	$ -	$ -	$ -	$ -
Analyzer	1	ea			$ 1,080.00	$ 3,500.00	HACH		1	pd	$ 927	$ 3,500	$ 150	$ 4,577	$ 927	$ 3,500	$ 150	$ 4,577
Safety Shower/Eye-Wash	**1**	**ea**	0	$ 2,800.00	$ 750.00	$ 2,000.00			2	pd	$ 673	$ 2,000	$ 75	$ 2,748	$ 673	$ 2,000	$ 75	$ 2,748
Control Panel	**1**	**ea**	PLC, Mercoid control (backup)	$ 53,900.00	$ 3,840.00	$ 50,000.00			0.333333333	pd	$ 3,381	$ 50,000	$ 450	$ 53,831	$ 3,381	$ 50,000	$ 450	$ 53,831
Storage Tank	**1**	**ea**	250,000 gallon, MOC: steel, Pressure Transducer	$ 315,200.00	$ 25,140.00	$ 290,000.00	MEANS		0.2	pd	$ 17,227	$ 290,000	$ 7,908	$ 315,135	$ 17,227	$ 290,000	$ 7,908	$ 315,135
Recirculation Pump	**1**	**ea**	0.75 hp, cetrifugal, Baldor Electric Co.	$ 1,100.00	$ 510.00	$ 500.00			4	pd	$ 452	$ 500	$ 56	$ 1,008	$ 452	$ 500	$ 56	$ 1,008
Residual Chlorine Analyzer	**1**	**ea**	Endress & Hauser Flowfit W CCA250	$ 2,100.00	$ 540.00	$ 1,500.00	rumentsandControls		2	pd	$ 463	$ 1,500	$ 75	$ 2,038	$ 463	$ 1,500	$ 75	$ 2,038
Booster Pump No. 1	**1**	**ea**	Berkeley Pump Co, Baldor Electric Co, 20 hp, 3525 rpm, 7.5" Impeller, centrifugal	$ 27,100.00	$ 2,040.00	$ 25,000.00			1	pd	$ 1,809	$ 25,000	$ 225	$ 27,034	$ 1,809	$ 25,000	$ 225	$ 27,034
Booster Pump No. 2	**1**	**ea**	Berkeley Pump Co, Baldor Electric Co, 20 hp, 3525 rpm, 7.5" Impeller, centrifugal	$ 27,100.00	$ 2,040.00	$ 25,000.00			1	pd	$ 1,809	$ 25,000	$ 225	$ 27,034	$ 1,809	$ 25,000	$ 225	$ 27,034
Booster Pump No. 3	**1**	**ea**	Berkeley Pump Co, Baldor Electric Co, 20 hp, 3525 rpm, 7.5" Impeller, centrifugal	$ 27,100.00	$ 2,040.00	$ 25,000.00			1	pd	$ 1,809	$ 25,000	$ 225	$ 27,034	$ 1,809	$ 25,000	$ 225	$ 27,034
Hydropneumatic Tank	**1**	**ea**	5,000 gallon, Level probe	$ 23,300.00	$ 3,260.00	$ 20,000.00			1	pd	$ 2,568	$ 20,000	$ 691	$ 23,258	$ 2,568	$ 20,000	$ 691	$ 23,258
Air Compressor	**1**	**ea**	0.75 hp	$ 2,800.00	$ 750.00	$ 2,000.00	MEANS		2	pd	$ 673	$ 2,000	$ 75	$ 2,748	$ 673	$ 2,000	$ 75	$ 2,748
Electrical Panel	**1**	**ea**	0	$ 18,900.00	$ 3,840.00	$ 15,000.00			0.333333333	pd	$ 3,381	$ 15,000	$ 450	$ 18,831	$ 3,381	$ 15,000	$ 450	$ 18,831
Diesel Generator	**1**	**ea**	Cummins Power Generator, 67 kW	$ 22,300.00	$ 2,220.00	$ 20,000.00			1	pd	$ 1,523	$ 20,000	$ 691	$ 22,214	$ 1,523	$ 20,000	$ 691	$ 22,214
Perimeter Site Wall	**3120**	**sf**	520 LF of 6' CMU wall with barbed wire	$ 49,600.00	$ 26,110.00	$ 23,400.00			300	sf	$ 7	$ 8	$ 1	$ 16	$ 22,450	$ 23,400	$ 3,657	$ 49,507
Access Gate	**1**	**ea**	Chain-linked Fence Gate, No automation	$ 1,300.00	$ 480.00	$ 750.00	MEANS		2	pd	$ 407	$ 750	$ 67	$ 1,224	$ 407	$ 750	$ 67	$ 1,224
Treatment Slab			25' x 18'	$ 11,800.00	$ 4,990.00	$ 6,730.00	18	1							$ 2,969	$ 6,729	$ 2,014	**$ 11,712**
Excavation	77	cy			$ 910.00	$ -	25		300	cy	$ 5		$ 7	$ 12	$ 402	$ -	$ 504	$ 905
Gravel Bedding	17	cy			$ 300.00	$ 250.00			200	cy	$ 8	$ 15	$ 10	$ 33	$ 131	$ 250	$ 164	$ 545
Disposal of Soil	77	cy			$ 1,150.00	$ 770.00					$ 5	$ 10	$ 10	$ 25	$ 412	$ 767	$ 731	$ 1,910

TAKEOFF WORKSHEET	Quantity	Unit	Notes	Calculations							Labor Unit Cost	Material Unit Cost	Equipment Unit Cost	Total Unit Cost	Labor Total	Material Total	Equipment Total	Total Cost
Item Description																		
Formwork	86	sf			$ 260.00	$ 130.00			400	sf	$ 3	$ 2	$ 0	$ 5	$ 238	$ 129	$ 22	$ 389
Rebar	3,333	lb			$ 1,530.00	$ 3,340.00			1600	lb	$ 0	$ 1	$ 0	$ 1	$ 1,318	$ 3,333	$ 208	$ 4,860
Concrete	17	cy			$ 630.00	$ 2,250.00			100	cy	$ 17	$ 135	$ 20	$ 173	$ 290	$ 2,250	$ 340	$ 2,880
Finishing	450	sf			$ 230.00	$ -			1000	sf	$ 0		$ 0	$ 0	$ 178	$ -	$ 45	$ 223
Booster Station Slab			18' x 18' (approx.)	$ 8,700.00	$ 3,720.00	$ 4,900.00	18	1							$ 2,203	$ 4,896	$ 1,510	**$ 8,609**
Excavation	59	cy			$ 700.00	$ -	18		300	cy	$ 5		$ 7	$ 12	$ 308	$ -	$ 386	$ 694
Gravel Bedding	12	cy			$ 220.00	$ 180.00			200	cy	$ 8	$ 15	$ 10	$ 33	$ 94	$ 180	$ 118	$ 393
Disposal of Soil	59	cy			$ 880.00	$ 590.00					$ 5	$ 10	$ 10	$ 25	$ 316	$ 588	$ 560	$ 1,464
Formwork	72	sf			$ 220.00	$ 110.00			400	sf	$ 3	$ 2	$ 0	$ 5	$ 200	$ 108	$ 18	$ 326
Rebar	2,400	lb			$ 1,100.00	$ 2,400.00			1600	lb	$ 0	$ 1	$ 0	$ 1	$ 949	$ 2,400	$ 150	$ 3,499
Concrete	12	cy			$ 460.00	$ 1,620.00			100	cy	$ 17	$ 135	$ 20	$ 173	$ 209	$ 1,620	$ 245	$ 2,073
Finishing	324	sf			$ 170.00	$ -			1000	sf	$ 0		$ 0	$ 0	$ 128	$ -	$ 32	$ 161
Concrete Spillway			3.5' x 60' (approx.)	$ 6,800.00	$ 3,280.00	$ 3,530.00	60	1							$ 1,898	$ 3,527	$ 1,374	**$ 6,799**
Excavation	61	cy			$ 730.00	$ -	3.5		300	cy	$ 5		$ 7	$ 12	$ 322	$ -	$ 403	$ 725
Gravel Bedding	8	cy			$ 140.00	$ 120.00			200	cy	$ 8	$ 15	$ 10	$ 33	$ 61	$ 116.67	$ 76.66	$ 254
Disposal of Soil	61	cy			$ 920.00	$ 620.00					$ 5	$ 10	$ 10	$ 25	$ 330	$ 614	$ 585	$ 1,529
Formwork	127	sf			$ 390.00	$ 200.00			400	sf	$ 3	$ 2	$ 0	$ 5	$ 352	$ 191	$ 32	$ 574
Rebar	1,556	lb			$ 720.00	$ 1,560.00			1600	lb	$ 0	$ 1	$ 0	$ 1	$ 615	$ 1,556	$ 97	$ 2,268
Concrete	8	cy			$ 300.00	$ 1,050.00			100	cy	$ 17	$ 135	$ 20	$ 173	$ 135	$ 1,050	$ 159	$ 1,344
Finishing	210	sf			$ 110.00	$ -			1000	sf	$ 0		$ 0	$ 0	$ 83	$ -	$ 21	$ 104
Above ground plant piping			3" DIP 4" DIP 10" DIP	$ 22,900.00	$ 5,370.00	$ 17,470.00									$ 4,502	$ 17,467	$ 868	**$ 22,837**
3" DIP	100	lf		$ 43.41	$ 630.00	$ 2,500.00	100	3	240	lf	$ 6	$ 25	$ 1	$ 31	$ 561	$ 2,494	$ 63	$ 3,117
Fittings	2	ea			$ 190.00	$ 180.00	$ 14.47		16	pd	$ 84	$ 90	$ 9	$ 183	$ 168	$ 180	$ 19	$ 367
Supports	5	ea			$ 470.00	$ 390.00			16	pd	$ 84	$ 78	$ 9	$ 171	$ 420	$ 390	$ 47	$ 857
4" DIP	100	lf		$ 45.52	$ 660.00	$ 2,500.00	100	4	230	lf	$ 6	$ 25	$ 1	$ 31	$ 585	$ 2,494	$ 65	$ 3,144
Fittings	2	ea			$ 190.00	$ 190.00	$ 11.38		16	pd	$ 84	$ 92	$ 9	$ 185	$ 168	$ 184	$ 19	$ 371
Supports	5	ea			$ 470.00	$ 570.00			16	pd	$ 84	$ 114	$ 9	$ 207	$ 420	$ 570	$ 47	$ 1,037
10" DIP	100	lf		$ 139.44	$ 1,350.00	$ 9,350.00	100	10	160	lf	$ 11	$ 93	$ 3	$ 107	$ 1,061	$ 9,346	$ 287	$ 10,695
Fittings	2	ea			$ 370.00	$ 740.00	$ 13.94		10	pd	$ 135	$ 370	$ 46	$ 550	$ 269	$ 740	$ 92	$ 1,101
Supports	5	ea			$ 1,080.00	$ 1,070.00			10	pd	$ 170	$ 214	$ 46	$ 430	$ 849	$ 1,070	$ 230	$ 2,149
Process control valves			10" Gate Valve, 3" flow control valves, 4" flow control valves	$ 27,500.00	$ 15,380.00	$ 12,080.00									$ 12,098	$ 12,078	$ 3,273	**$ 27,450**
10" Gate Valve	1	ea		$ 2,500.00	$ 270.00	$ 2,180.00		10	8	pd	$ 212	$ 2,178	$ 57	$ 2,448	$ 212	$ 2,178	$ 57	$ 2,448
3" Flow Control Valve	9	ea		$ 15,300.00	$ 9,710.00	$ 5,550.00		3	2	pd	$ 849	$ 616	$ 230	$ 1,695	$ 7,641	$ 5,548	$ 2,067	$ 15,256
4" Flow Control Valve	5	ea		$ 9,800.00	$ 5,400.00	$ 4,360.00		4	2	pd	$ 849	$ 871	$ 230	$ 1,949	$ 4,245	$ 4,353	$ 1,149	$ 9,746
TOTAL				**$ 1,293,800**	**$ 145,170**	**$ 1,146,730**												

Appendix C: Regulatory Data

Arizona Department of Environmental Quality	Safe Drinking Water	Monitoring Assistance Program
County Map of Arizona	Water System Search	Help

Water System Detail Information

Water System ID #:	AZ0407732	Water System Classification:	C
Water System Name:	VWC BUCKEYE DIV - SONORAN RIDGE	Primary Water Source:	GW
Principal County Served:	MARICOPA	System Activity / MAP Participant:	A - MAP
		Activity Date:	06-30-2003

Group Violations

Fed Fiscal Year	Comp Prd Begin Date	Comp Prd End Date	Sample Point	Viol Type	Violation Name	Comp Achieved	Analyte Group	Analyte Group Name

Individual Violations

Violation No.	Comp Prd Begin Date	Comp Prd End Date	Sample Point	Viol Type	Violation Name	Comp Achieved	Analyte Code	Analyte Name
2018-1113	2015-10-01 00:00:00.0	2015-12-31 00:00:00.0	EPDS001	03	MONITORING, ROUTINE MAJOR	Y	1005	ARSENIC
2017-1109	2017-01-01 00:00:00.0	2017-01-31 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2017-1107	2017-03-01 00:00:00.0	2017-03-31 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2017-1108	2017-02-01 00:00:00.0	2017-02-28 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2016-1097	2015-11-01 00:00:00.0	2015-11-30 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2016-1096	2015-12-01 00:00:00.0	2015-12-31 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2016-1098	2015-10-01 00:00:00.0	2015-10-31 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2016-1095	2015-07-01 00:00:00.0	2016-06-30 00:00:00.0		71	CCR REPORT	Y	7000	CONSUMER CONFIDENCE RULE
2015-1091	2015-07-01 00:00:00.0	2015-07-31 00:00:00.0		23	MONITORING (TCR), ROUTINE MAJOR	Y	3100	COLIFORM (TCR)
2015-1090	2015-06-01 00:00:00.0	2015-06-30 00:00:00.0		24	MONITORING (TCR), ROUTINE MINOR	Y	3100	COLIFORM (TCR)
2015-1087	2015-06-01 00:00:00.0	2015-06-30 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2013-1041	2011-10-01 00:00:00.0	2012-09-30 00:00:00.0		72	CCR ADEQUACY/AVAILABILITY/CONTENT	Y	7000	CONSUMER CONFIDENCE RULE
2013-	2009-07-	2010-06-		71	CCR REPORT	Y	7000	CONSUMER

1040	01 00:00:00.0	30 00:00:00.0						CONFIDENCE RULE
2013-1039	2008-07-01 00:00:00.0	2009-06-30 00:00:00.0		71	CCR REPORT	Y	7000	CONSUMER CONFIDENCE RULE
2013-1038	2005-07-01 00:00:00.0	2006-06-30 00:00:00.0		71	CCR REPORT	Y	7000	CONSUMER CONFIDENCE RULE
2013-1037	2004-07-01 00:00:00.0	2005-06-30 00:00:00.0		71	CCR REPORT	Y	7000	CONSUMER CONFIDENCE RULE
2012-1028	2011-07-01 00:00:00.0	2011-09-30 00:00:00.0	EPDS001	03	MONITORING, ROUTINE MAJOR	Y	1005	ARSENIC
2008-1024	2007-12-01 00:00:00.0	2007-12-31 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2008-1023	2007-10-01 00:00:00.0	2007-10-31 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2008-1022	2007-11-01 00:00:00.0	2007-11-30 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2008-1021	2007-10-01 00:00:00.0	2007-12-31 00:00:00.0	EPDS001	02	MCL, AVERAGE	Y	1005	ARSENIC
2008-1019	2007-09-01 00:00:00.0	2007-09-30 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2008-1018	2007-08-01 00:00:00.0	2007-08-31 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2008-1017	2007-07-01 00:00:00.0	2007-07-31 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2007-1012	2007-07-01 00:00:00.0	2008-06-30 00:00:00.0		71	CCR REPORT	Y	7000	CONSUMER CONFIDENCE RULE
2007-1009	2007-02-01 00:00:00.0	2007-02-28 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2007-1011	2007-01-01 00:00:00.0	2007-01-31 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2007-1010	2007-03-01 00:00:00.0	2007-03-31 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2006-1008	2006-09-01 00:00:00.0	2006-09-30 00:00:00.0		23	MONITORING (TCR), ROUTINE MAJOR	Y	3100	COLIFORM (TCR)
2007-1007	2006-07-01 00:00:00.0	2007-06-30 00:00:00.0		71	CCR REPORT	Y	7000	CONSUMER CONFIDENCE RULE
2006-806	2006-04-01 00:00:00.0	2006-04-30 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2006-1006	2006-06-01 00:00:00.0	2006-06-30 00:00:00.0	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE
2006-906	2006-05-01	2006-05-31	DISTRIBUTION SYSTEM	27	MONITORING, ROUTINE (DBP), MAJOR	Y	0999	CHLORINE

	00:00:00.0	00:00:00.0						
2006-606	2005-08-01 00:00:00.0	2005-08-31 00:00:00.0		25	MONITORING (TCR), REPEAT MAJOR	Y	3100	COLIFORM (TCR)
2006-706	2005-08-01 00:00:00.0	2005-08-31 00:00:00.0		22	MCL (TCR), MONTHLY	Y	3100	COLIFORM (TCR)
2005-505	2004-01-01 00:00:00.0	2004-12-31 00:00:00.0		52	FOLLOW-UP OR ROUTINE TAP M/R (LCR)	Y	5000	LEAD & COPPER RULE
2004-404	2004-07-01 00:00:00.0	2004-07-31 00:00:00.0		23	MONITORING (TCR), ROUTINE MAJOR	Y	3100	COLIFORM (TCR)
2004-304	2004-04-01 00:00:00.0	2004-04-30 00:00:00.0		25	MONITORING (TCR), REPEAT MAJOR	Y	3100	COLIFORM (TCR)
2004-204	2004-04-01 00:00:00.0	2004-04-30 00:00:00.0		22	MCL (TCR), MONTHLY	Y	3100	COLIFORM (TCR)

Appendix D: Booster Pump Curve

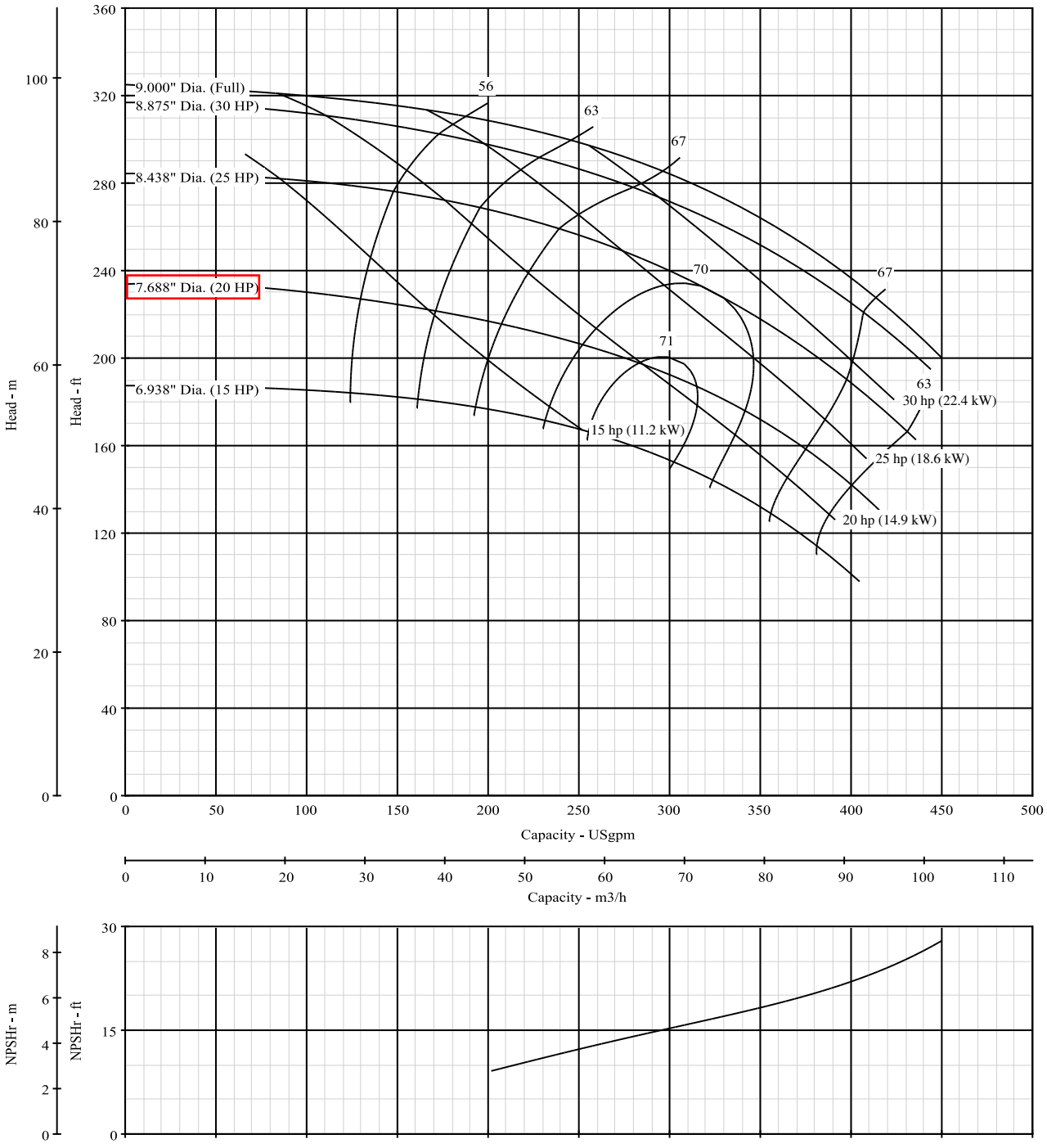
Pump Size: 2-1/2 x 3 x 9 L **Model: B2-1/2Z_L**

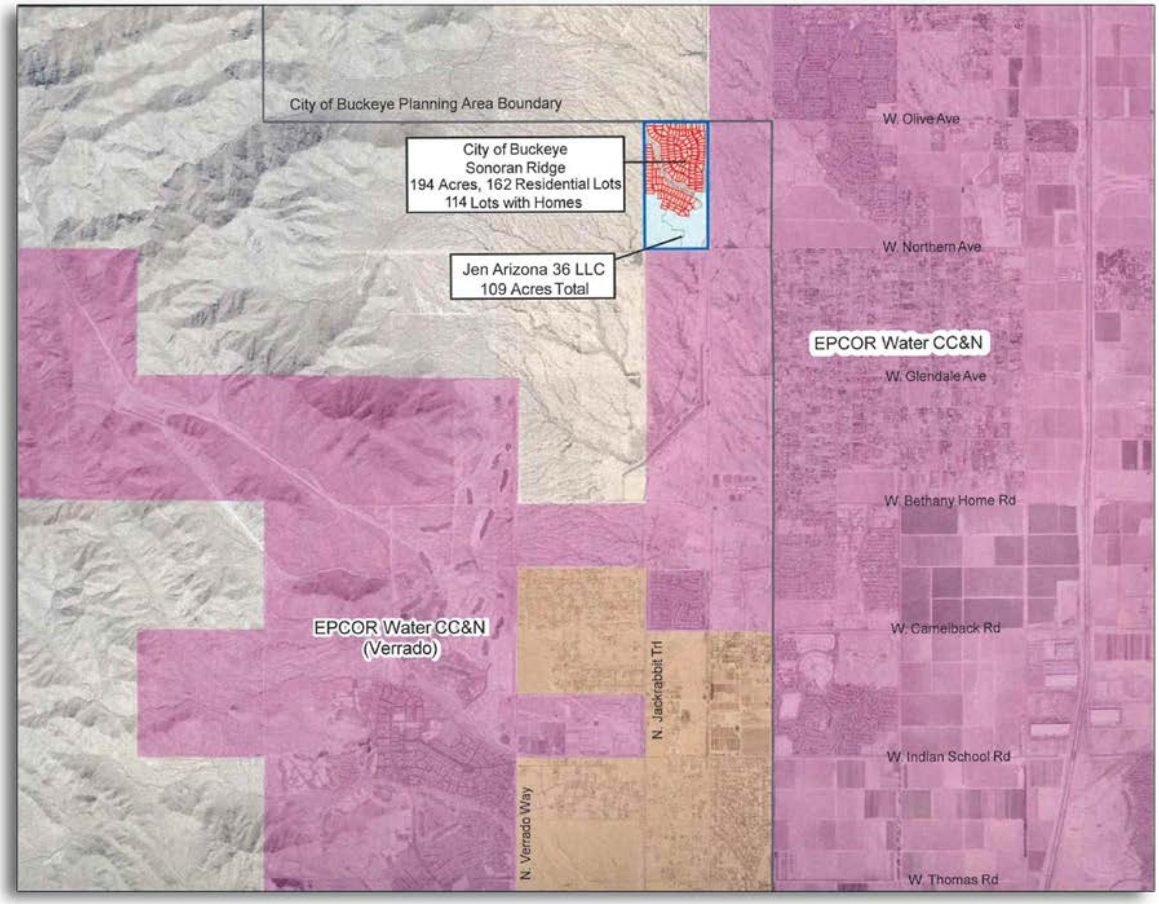
Appendix D: Booster Pump Curve

Curve No. 5040

Type	CCMD	FM CPLG	FM BELT	SAE	Hydraulic	AC Engine
Model	B2-1/2ZPL	B2-1/2ZRL				

Nominal RPM: **3500**
Based on Fresh Water @ 68˚F (20˚C)
Maximum Working Pressure:250 PSI (17 BAR)




City of Buckeye Planning Area Boundary
City of Buckeye
Sonoran Ridge
194 Acres, 162 Residential Lots
114 Lots with Homes
Jen Arizona 36 LLC
109 Acres Total
EPCOR Water CC&N
(Verrado)
EPCOR Water CC&N
W. Olive Ave
W. Northern Ave
W. Glendale Ave
W. Bethany Home Rd
W. Camelback Rd
W. Indian School Rd
W. Thomas Rd
N. Jackrabbit Trl
N. Verrado Way

SECTION 400

REAL PROPERTY BID SUBMISSION AND PURCHASE AGREEMENT

IFB No. #2021041

Project Name: SALE OF REAL PROPERTY-SONORAN RIDGE WATER SYSTEM, BUCKEYE, ARIZONA

Date: Date and Time Here

Bid from: JEN ARIZONA 36 LLC
(Name)

To: City of Buckeye

PURCHASE AND OFFER FORM BELOW. THE PURCHASE AGREEMENT MUST INCLUDE THE FOLLOWING:

PAGE 1: THE UNDERSIGNED- NAME OF PERSON AND/OR ENTITY

PAGE 2, PARAGRAPH 2.1: OFFER PURCHASE PRICE OFFERED

PAGE 12, PARAGRAPH 13.6 NOTICES: NAME/ADDRESS/PHONE OF PURCHASER

PAGE 13, PARAGRAPH 14.1: ACCEPTANCE DATE

PAGE 14: DATE AND SIGNATURE

ORIGINAL

BID SUBMISSION AND PURCHASE AGREEMENT

The undersigned, JEN ARIZONA 36 LLC as Purchaser, offers to purchase certain assets from the City of Buckeye, Arizona, an Arizona municipal corporation, as Seller, upon the following terms and conditions:

Article 1
Property to be Sold

1.1 Property. The Property which is the subject of this offer consists of the following:

The Sonoran Ridge Water System, including all facilities, pumps, waterlines, meters and/or other equipment, properties and rights used or useful to provide water service in the Sonoran Ridge Water System, including, but not limited to, the Well (as defined below) well sites, easements, leaseholds and other interests in the real property commonly known as Maricopa County Assessor's Parcel No. 502-09-011B and legally described in Exhibit "A" attached hereto and incorporated herein by this reference, and all equipment and facilities located thereon (collectively, the "**Subject Water Facilities**").

1.2 Definitions. Unless the context clearly indicates the contrary, the following capitalized words used herein shall have the meanings set forth below:

(a) "**ACC**" refers to the Arizona Corporation Commission in the exercise of its constitutional and statutory authority to regulate utility service in this State provided by public service corporations.

(b) "**ADWR**" refers to the Arizona Department of Water Resources.

(c) "**Bill of Sale**" refers to that certain document to be given by Seller to Purchaser conveying all of its interest in and to the Equipment.

(d) "**CC&N**" refers to the Certificate of Convenience and Necessity to be issued by the ACC to Purchaser or to a public service water utility company to be designated by Purchaser to provide water service to the Service Area (as defined below).

(e) "**Equipment**" refers to tangible property, whether affixed or not to the Real Property, which has been acquired by Seller for use primarily in connection with the operation of the Sonoran Ridge Water System, including but not limited to all equipment used in the operation of wells and tanks and the water distribution system.

(f) "**Improvements**" refers to wells, tanks, water lines and distribution systems, and any other structures or tangible property used in connection with the Subject Water Facilities.

(g). "**Real Property**" refers to all well sites, easements, licenses and other real property interests located in Maricopa County, Arizona, legally described in Exhibit

"A" attached hereto, including all Improvements, fixtures and any other rights and appurtenances pertaining thereto.

(h) **"Service Area"** refers to the area to which water service is provided by the Subject Water Facilities, as depicted on Exhibit "B" attached hereto.

(i) **"Transfer Customers"** refers to those customers that are currently being served by Seller by means of the Subject Water Facilities as of the date of this Agreement whose accounts will be transferred to be served by Purchaser as of the Closing Date of this Agreement according to the terms set forth herein.

(j) **"Transfer Instruments"** refers to those instruments customarily required for the transfer of the Subject Water Facilities, including but not limited to:

(i) Special Warranty Deed to the Real Property;

(ii) Bill of Sale to all Equipment to be transferred to Purchaser hereunder; and

(iii) A duly executed notice of change of well ownership for the Well in the form prescribed by ADWR

(k) **"Well"** refers to the water production well identified as ADWR Well No. 55-5726567.

Article 2
Purchase Price

2.1 Price. The total purchase price of the Property shall be $1,001,000.00 .

Article 3
Payment of Purchase Price

3.1 Payment. The purchase price of the Property shall be paid as follows:

(a) Earnest Money. $50,000.00 has been delivered to Seller in the form of a cashier's or certified check payable to Escrow Holder (as defined below), upon the delivery of this offer by Purchaser. This payment shall constitute the earnest money (**"Earnest Money"**) for all purposes of this Agreement. No interest shall accrue or become payable on the Earnest Money payment. The Earnest Money shall be nonrefundable to Purchaser, except in the event of (i) Purchaser's disapproval of title and Seller's failure to correct the disapproved title matter(s) pursuant to Article 6 below or (ii) Seller default hereunder. Upon Seller's Acceptance (as defined below) the Earnest Money shall be released to Seller.

(b) Balance. The balance of the purchase price, plus or minus prorations, shall be paid to Seller at closing by confirmed wire transfer.

Article 4
Conveyance of Subject Water Facilities

Subject to and upon the terms and conditions contained in this Agreement, Seller agrees to sell, assign, transfer and convey to Purchaser on the Closing Date, and Purchaser agrees to purchase, accept and receive from Seller on the Closing Date, the Subject Water Facilities. The provisions of this Article 4 shall survive the Close of Escrow and the transfer of the Subject Water Facilities to Purchaser.

4.1 Equipment. The Equipment shall be conveyed at Closing by the execution and delivery by Seller of the Bill of Sale. The Bill of Sale shall include a list identifying all Equipment and shall be in the form of Exhibit C hereto.

4.2 Real Property. The Real Property shall be conveyed at Closing by the execution and delivery by Seller of a special warranty deed in the form attached as Exhibit D hereto (the **"Deed"**).

4.3 System Improvements, Service to Transfer Customers and Post-Transfer Operations.

(a) Prior to the Closing Date, Purchaser shall complete or cause to be completed, at its sole cost and expense, all improvements that are required to enable Purchaser to interconnect the Subject Water Facilities with the current water system of the public service water utility company to whom the ACC-approved CC&N is issued, as referenced in Section 6.2 below, and to begin serving the Transfer Customers without interruption or delay (the **"Connection Improvements"**).

(b) On and after the Closing Date, Purchaser (or its assignee) shall provide potable water service to all Transfer Customers on terms that are consistent with Purchaser's (or its assignee's) provision of potable water services to its other customers in the vicinity of the Transfer Customers as specified in terms of service established by Purchaser (or its assignee). Upon the Close of Escrow, Purchaser shall be solely responsible for operating and maintaining the Subject Water Facilities and for delivery of potable water to the Transfer Customers. Purchaser shall do so in a manner that complies with all applicable state, federal and local law. Purchaser shall indemnify, hold harmless and defend Seller for, from and against any claims by third parties arising on or after the Closing Date and resulting from any action or inaction by Purchaser in providing potable water service to the Transfer Customers.

4.4 Accounts Receivable. Upon the Close of Escrow, accounts receivable for potable water service to the Transfer Customers shall be handled in the following manner:

(a) Seller shall bill the Transfer Customers for potable water service provided during the month immediately prior to the Closing Date, and Seller shall be solely responsible for collection of all amounts due from the Transfer Customers for such service.

(b) Purchaser shall bill the Transfer Customers for potable water service provided to the Transfer Customers beginning on the Closing Date and for all service provided thereafter, and Purchaser shall be solely responsible for collection of all amounts due from the Transfer Customers for such service. Purchaser shall not be obligated to terminate service to any Transfer Customer that fails to pay amounts owed for water service provided by Seller prior

to the Closing Date, but Purchaser may elect to do so in a manner consistent with terms of service established by Purchaser.

(c) Seller and Purchaser shall cooperate to assist any Transfer Customers with accounts that are set up for automatic payments to allow transition of such accounts to Purchaser's billing system as of the Closing Date.

4.5 Transfer Customer Rates and Billing. Upon the Close of Escrow, Purchaser shall be solely responsible for establishing rates and other terms of service for the Transfer Customers in a manner consistent with applicable law, and for billing and collecting from the Transfer Customers for potable water service. Purchaser shall be entitled to retain all revenues resulting from Purchaser's provision of potable water service to the Transfer Customers.

4.6 Service Area Maps. Seller and Purchaser shall cooperate in preparing updated service area maps for their respective service areas that accurately reflect that the Service Area has been removed from Seller's service area and added to Purchaser's service area. Each party shall thereafter be responsible for submitting update service area maps to ADWR.

Article 5

Escrow

5.1 Escrow. Upon Seller's acceptance of the offer set forth herein, as evidenced by Seller's execution hereof (**"Seller's Acceptance"**), Purchaser and Seller shall promptly open an escrow (**"Escrow"**) for the purchase and sale of the Property by executing and depositing this Agreement with Pioneer Title Agency, Inc. (**"Escrow Holder"**). Escrow Holder shall notify Seller and Purchaser in writing of the date of opening of Escrow pursuant to this Section 5.1. In the event of any conflict or inconsistency between any provision of the escrow instructions and any provision of this Agreement or any other instrument or document executed or delivered pursuant to this Agreement, the provisions of this Agreement or such other instrument or document shall control over the escrow instructions. This Agreement shall not be deemed to contain any indemnity in favor of Escrow Holder or any rights to a brokerage commission that may be set forth in any standard escrow instructions.

Article 6
Title Insurance

6.1 Title Commitment. Purchaser shall at its expense order from First National Title Insurance Company (**"Title Company"**) and deliver to Purchaser and Seller a commitment (**"Title Commitment"**) to issue the Owner's Policy with respect to the Real Property (as defined below), and legible copies of the documents evidencing the exceptions to title stated therein. The Title Commitment shall be delivered not less than thirty (30) days after Seller's Acceptance, including any postponement thereof pursuant to any of the provisions hereof. Unless Purchaser gives written notice (**"Title Disapproval Notice"**) that it disapproves the exceptions to title shown on the Title Commitment, stating the exceptions so disapproved, within fifteen (15) days of the date of delivery of the Title Commitment to Purchaser, Purchaser shall be conclusively deemed to have approved the exceptions listed in the Title Commitment. Seller shall have a fifteen (15) day period after its receipt of any Title Disapproval Notice within which to remove the disapproved exceptions set forth therein from title at no cost or expense to Purchaser (Seller having the right but not the obligation to do so), and the closing date shall be automatically extended, if necessary, to allow for such fifteen (15) day period.

6.2 Title Contingency. A condition precedent to Purchaser's obligation to purchase the Property shall be the willingness of Title Company to issue to Purchaser on the closing date an ALTA standard coverage owner's title insurance policy (**"Owner's Policy"**), showing title to the Real Property to be vested of record in the Purchaser, subject solely to the following exceptions: (a) the printed exceptions which appear in the standard form coverage owner's policy of title insurance issued by Title Company in the State of Arizona and (b) the exceptions approved or deemed approved by Purchaser pursuant to Section 6.1 above. Purchaser may obtain an extended coverage policy if it so desires, but the ability of Purchaser to obtain such extended coverage policy shall not be a condition of Purchaser's obligation to purchase the Property pursuant to this Agreement. Purchaser shall have the option to waive the condition precedent set forth in this Section 6.2 by written notice to Seller. In the event of such waiver, such condition shall be deemed satisfied.

Article 7
Damages and/or Condemnation

7.1 Casualty/Taking. Risk of damage or destruction of the Subject Water Facilities by any casualty or by a partial taking or condemnation under the provisions of applicable eminent domain law is assumed by Seller until the closing of this transaction, unless the Purchaser takes possession of the Subject Water Facilities prior thereto, in which case risk of such damage or destruction will pass to Purchaser at the time Purchaser takes possession of the Subject Water Facilities.

7.2 Repairs to Subject Water Facilities. Purchaser acknowledges that repairs to or replacements of the Subject Water Facilities may become necessary during the pendency of this Agreement. In the event Seller is required to repair or replace any of the Subject Water Facilities during the period commencing on the date on which the ACC issues an order granting Purchaser or a public service water utility company designated by Purchaser a CC&N to provide water service to the Service Area and the area described on Exhibit "E" attached hereto (the **"ACC Approval"**) and ending on the Closing Date or the Outside Closing Date, as applicable (both, as defined below), Purchaser shall, as a condition of closing hereunder, reimburse Seller for all amounts expended for such replacement or repair, such amount to be deposited into escrow by Purchaser on or prior to the Closing Date, upon receipt of reasonable evidence from Seller detailing such expenses, to be paid to Seller upon the completion of the closing of this transaction (the **"Repair Costs"**). Such payment by Purchaser shall not be considered to be a part of the purchase price payable for the Subject Water Facilities, but rather shall be compensation to Seller for costs incurred as a result of the extended escrow period required by Purchaser's need to obtain the CC&N from the ACC as provided in Section 8.1 below. Should the Repair Costs exceed an amount equal to TEN percent (10 %) of the Purchase Price, Purchaser may, at its election, by written notice to Seller given within three (3) business days of Purchaser's receipt of Seller's statement of the amount of the Repair Costs, terminate this Agreement, in which case the Earnest Money shall be returned to Purchaser, and Purchaser and Seller shall have no further duties, liabilities or obligations under this Agreement except those that expressly survive termination of this Agreement.

Article 8
Closing and Possession

8.1 Closing. The date on which this transaction shall be closed (the **"Closing Date"**) shall be the first day of the month following the date on which the earliest of the following has occurred: (i) one hundred twenty (120) days following the issuance by the ACC of the ACC

Approval; (ii) the date that the Connection Improvements are complete and have been accepted ("**Final Acceptance**") by the public service water utility company to whom the ACC Approval was issued; or (iii) April 30, 2022. In the event that Final Acceptance has not occurred by the date specified in 8.1(iii), above, and provided that Purchaser is making diligent efforts to cause Final Acceptance to occur, Purchaser shall have the one time right to extend the Closing Date from the date specified in 8.1(iii), above, for an additional period of thirty (30) days (the "**Outside Closing Date**"). Purchaser shall assume all risks and liabilities associated with compliance with the regulatory authority of the ACC regarding this Agreement. Purchaser (or its designee) shall faithfully and diligently prosecute an application before the ACC requesting issuance of the above-referenced CC&N. If Seller fails to close for any reason, this Agreement shall thereupon, without further action by any party, become null and void and neither party shall have any obligation hereunder, except that Purchaser's Earnest Money payment shall be refunded upon delivery to Seller of all executed copies of this Agreement previously delivered to Purchaser or its agents or representatives.

8.2 Delivery of Possession. Possession of the Property shall be delivered to Purchaser at closing.

8.3 Conditions of Closing.

(a) The obligation of Seller under this Agreement to sell the Subject Water Facilities is expressly conditioned upon and subject to (i) the approval of this Agreement by Seller's City Council and (ii) Purchaser's performance of each covenant and obligation of Purchaser set forth in this Agreement, including, without limitation, delivery into escrow by Purchaser of the purchase price and the closing costs. If any of the foregoing conditions are not satisfied or expressly waived by Seller in its sole discretion within the time provided in this Agreement, Seller may terminate this Agreement and all Earnest Money shall be returned to Purchaser (unless the failure of a condition is the result of Purchaser's breach of this Agreement, in which case the provisions of Section 13.6 below shall apply), and Purchaser and Seller shall have no further duties, liabilities or obligations under this Agreement except those that expressly survive termination of this Agreement.

(b) The obligation of Purchaser under this Agreement to purchase the Subject Water Facilities is expressly conditioned upon and subject to (i) the issuance by the ACC of an order granting Purchaser or the public service water utility company designated by Purchaser the CC&N described in Section 8.1, above; (ii) Purchaser's determination that the environmental condition of the Real Property and the Subject Water Facilities is acceptable to Purchaser; and (iii) any exceptions to title that have been approved or deemed approved by Purchaser. If any of the foregoing conditions are not satisfied or expressly waived by Purchaser in its sole discretion within the time provided in this Agreement, Purchaser may terminate this Agreement and receive the return of all Earnest Money, and Purchaser and Seller shall have no further duties, liabilities or obligations under this Agreement except those that expressly survive termination of this Agreement.

(c) It shall further be a condition to both parties' obligations under this Agreement that there shall not, as of the Closing, be pending or threatened any litigation, suit, action or proceeding by any party that (i) would adversely affect the ownership or operation of the Subject Water Facilities; (ii) seeks to restrain or prohibit the transactions contemplated by this Agreement; (iii) challenges the legality or validity of the

transactions contemplated by this Agreement; or (iv) seeks damages from either party as a result of the transactions contemplated by this Agreement.

(d) This Agreement may be terminated at any time prior to the Closing Date: (i) by Seller by written notice to Purchaser if any of the conditions set forth in Sections 8.3(a) or 8.3(b) shall not have been, or if it becomes apparent to Seller in its commercially reasonable discretion that any of such conditions will not be, fulfilled by 5:00 p.m. Phoenix, Arizona time on the Outside Closing Date, unless such failure shall be due to the failure of Seller to perform or comply with any of the covenants, agreements or conditions hereof to be performed or complied with by it prior to the Closing Date; or by Purchaser by written notice to Seller if any of the conditions set forth in 8.3(a) or 8.3(b) shall not have been, or if it becomes apparent to Purchaser in its commercially reasonable discretion that any of such conditions will not be, fulfilled by 5:00 p.m. Phoenix, Arizona time on the Outside Closing Date, unless such failure shall be due to the failure by Purchaser to perform or comply with any of the covenants, agreements or conditions hereof to be performed or complied with by it prior to the Closing Date.

(e) In the event of the termination of this Agreement pursuant to the provisions of Section 8.3(d): (i) this Agreement shall terminate and have no further force or effect, without any liability to any person in respect hereof or of the transactions contemplated hereby on the part of any party hereto, except for any liability resulting from such party's material breach of this Agreement; and (b) Escrow Agent shall return to the party who deposited same all materials relating to this Agreement in its possession.

8.4 Closing Documents.

(a) Seller's Deposits. Prior to Closing, Seller shall deposit in escrow for delivery to Purchaser, the following;

(i) The Transfer Instruments required by this Agreement.

(ii) Any other documents or instruments required by this Agreement.

(iii) Any other instruments necessary to or reasonably required by Purchaser to effectuate the transaction contemplated herein.

(b) Purchaser's Deposits. Prior to Closing, Purchaser shall deposit in escrow, for deliver to Seller, the following:

(i) All sums required of Purchaser to close this transaction.

(ii) Such Transfer Instruments as are required of Purchaser.

(iii) Any other instruments necessary to or reasonably required by Seller to effectuate the transaction contemplated herein, including the written notice of assignment described in Section 11.3 of this Agreement.

Article 9
Prorations

9.1 Adjustments. All items customarily prorated and adjusted in connection with the closing of the sale of property similar to the Subject Water Facilities shall be prorated, adjusted and computed as of 11:59 p.m. of the day immediately preceding the Closing Date.

Article 10
Seller's Disclaimer

10.1 Disclaimer of Representations and Warranties by Seller. PURCHASER HEREBY ACKNOWLEDGES AND AGREES THAT THE SALE OF THE SUBJECT WATER FACILITIES HEREUNDER IS AND WILL BE MADE ON AN "AS IS, WHERE IS" BASIS AND THAT SELLER HAS NOT MADE, DOES NOT MAKE AND SPECIFICALLY NEGATES AND DISCLAIMS ANY REPRESENTATIONS, WARRANTIES OR GUARANTIES OF ANY KIND OR CHARACTER WHATSOEVER, WHETHER EXPRESS OR IMPLIED, ORAL OR WRITTEN, PAST, PRESENT, FUTURE OR OTHERWISE, OF, AS TO, CONCERNING OR WITH RESPECT TO THE SUBJECT WATER FACILITIES, INCLUDING WITHOUT LIMITATION, (1) ENVIRONMENTAL MATTERS RELATING TO THE REAL PROPERTY OR ANY PORTION THEREOF, (2) GEOLOGICAL CONDITIONS, INCLUDING, WITHOUT LIMITATION, SUBSIDENCE, SUBSURFACE CONDITIONS, WATER TABLE, UNDERGROUND WATER RESERVOIRS, LIMITATIONS REGARDING THE WITHDRAWAL OF WATER AND FAULTING, (3) WHETHER OR NOT AND THE EXTENT TO WHICH THE REAL PROPERTY OR ANY PORTION THEREOF IS AFFECTED BY ANY STREAM (SURFACE OR UNDERGROUND), BODY OF WATER, FLOOD PRONE AREA, FLOOD PLAIN, FLOODWAY OR SPECIAL FLOOD HAZARD, (4) DRAINAGE, (5) ACCESS TO THE REAL PROPERTY, (6) SOIL CONDITIONS, INCLUDING THE EXISTENCE OF INSTABILITY, PAST SOIL REPAIRS, SOIL ADDITIONS OR CONDITIONS OF SOIL FILL, OR SUSCEPTIBILITY TO LANDSLIDES, OR THE SUFFICIENCY OF ANY UNDERSHORING, (7) ZONING TO WHICH THE REAL PROPERTY OR ANY PORTION THEREOF MAY BE SUBJECT, (8) THE AVAILABILITY OF ANY UTILITIES TO THE SUBJECT WATER FACILITIES OR ANY PORTION THEREOF INCLUDING, WITHOUT LIMITATION, WATER, SEWAGE, GAS AND ELECTRIC, (9) USAGES OF ADJOINING PROPERTY, (10) ACCESS TO THE REAL PROPERTY OR ANY PORTION THEREOF, (11) THE PRESENCE OF HAZARDOUS SUBSTANCES IN OR ON, UNDER OR IN THE VICINITY OF THE REAL PROPERTY, (12) THE CONDITION OR USE OF THE SUBJECT WATER FACILITIES OR COMPLIANCE OF THE SUBJECT WATER FACILITIES WITH ANY OR ALL PAST, PRESENT OR FUTURE FEDERAL, STATE OR LOCAL ORDINANCES, RULES, REGULATIONS OR LAWS, (13) THE EXISTENCE OR NON-EXISTENCE OF UNDERGROUND STORAGE TANKS, (14) ANY OTHER MATTER AFFECTING THE STABILITY OR INTEGRITY OF THE SUBJECT WATER FACILITIES, (15) THE POTENTIAL FOR DEVELOPMENT OF THE REAL PROPERTY, (16) THE EXISTENCE OF VESTED LAND USE, ZONING OR BUILDING ENTITLEMENTS AFFECTING THE SUBJECT WATER FACILITIES OR (17) THE MERCHANTABILITY OF THE SUBJECT WATER FACILITIES OR FITNESS OF THE SUBJECT WATER FACILITIES FOR ANY PARTICULAR PURPOSE (PURCHASER AFFIRMING THAT PURCHASER HAS NOT RELIED ON SELLER'S SKILL OR JUDGMENT TO SELECT OR FURNISH THE SUBJECT WATER FACILITIES FOR ANY PARTICULAR PURPOSE, AND THAT SELLER MAKES NO WARRANTY THAT THE SUBJECT WATER FACILITIES ARE FIT FOR ANY PARTICULAR PURPOSE).

FOR PURPOSES HEREOF "HAZARDOUS SUBSTANCES" MEANS ANY HAZARDOUS, TOXIC OR DANGEROUS WASTE, SUBSTANCE OR MATERIAL, POLLUTANT

OR CONTAMINANT, AS DEFINED FOR PURPOSES OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF 1980 (42 U.S.C. SECTIONS 9601 ET SEQ.), AS AMENDED ("CERCLA"), OR THE RESOURCE CONSERVATION AND RECOVERY ACT (42 U.S.C. SECTIONS 6901 ET SEQ.), AS AMENDED, OR ANY OTHER FEDERAL, STATE OR LOCAL LAW, ORDINANCE, RULE OR REGULATION APPLICABLE TO THE PROPERTY, OR ANY SUBSTANCE WHICH IS TOXIC, EXPLOSIVE, CORROSIVE, FLAMMABLE, INFECTIOUS, RADIOACTIVE, CARCINOGENIC, MUTAGENIC OR OTHERWISE HAZARDOUS, OR ANY SUBSTANCE WHICH CONTAINS GASOLINE, DIESEL FUEL OR OTHER PETROLEUM HYDROCARBONS, POLYCHLORINATED BIPHENYLS (PCBs), OR RADON GAS, UREA FORMALDEHYDE, ASBESTOS OR LEAD.

PURCHASER ACKNOWLEDGES THAT IT HAS OR WILL COMPLETE ALL PHYSICAL AND FINANCIAL EXAMINATIONS RELATING TO THE ACQUISITION OF THE SUBJECT WATER FACILITIES HEREUNDER AND WILL ACQUIRE THE SAME SOLELY ON THE BASIS OF SUCH EXAMINATIONS AND THE TITLE INSURANCE PROTECTION AFFORDED BY THE OWNER'S POLICY AND NOT ON ANY INFORMATION PROVIDED OR TO BE PROVIDED BY SELLER. PURCHASER FURTHER ACKNOWLEDGES AND AGREES THAT ANY INFORMATION PROVIDED OR TO BE PROVIDED WITH RESPECT TO THE SUBJECT WATER FACILITIES WAS OBTAINED FROM A VARIETY OF SOURCES AND THAT SELLER HAS NOT MADE ANY INDEPENDENT INVESTIGATION OR VERIFICATION OF SUCH INFORMATION AND MAKES NO REPRESENTATIONS AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION. SELLER SHALL NOT BE LIABLE FOR ANY NEGLIGENT MISREPRESENTATION OR ANY FAILURE TO INVESTIGATE THE SUBJECT WATER FACILITIES NOR SHALL SELLER BE BOUND IN ANY MANNER BY ANY VERBAL OR WRITTEN STATEMENTS, REPRESENTATIONS, APPRAISALS, ENVIRONMENTAL ASSESSMENT REPORTS, OR OTHER INFORMATION PERTAINING TO THE SUBJECT WATER FACILITIES OR THE OPERATION THEREOF, FURNISHED BY SELLER OR BY ANY REAL ESTATE BROKER, AGENT, REPRESENTATIVE, EMPLOYEE, SERVANT OR OTHER PERSON ACTING ON SELLER'S BEHALF. IT IS UNDERSTOOD AND AGREED THAT THE SUBJECT WATER FACILITIES ARE SOLD BY SELLER AND PURCHASED BY PURCHASER SUBJECT TO THE FOREGOING.

Article 11
Purchaser's Agreements, Representations and Covenants

11.1 Authorization. If Purchaser is other than a natural person, Purchaser represents and warrants to Seller that the execution and delivery of this Agreement by Purchaser has been duly authorized, and that the Agreement creates legally enforceable obligations as to Purchaser in accordance with its respective terms.

11.2 Resolutions. If Purchaser is other than a natural person, at Seller's request before closing, Purchaser shall deliver to Seller certified copies of appropriate documents authorizing this transaction, in form reasonably acceptable to Seller and the title insurer.

11.3 Proceedings. Purchaser represents and warrants to Seller that there are no actions, suits or proceedings pending and served or, to Purchaser's knowledge, threatened in writing against Purchaser, at law or in equity, before or by any court, arbitrator or governmental authority that, individually or in the aggregate, would adversely affect the validity of this Agreement or its enforceability against Purchaser, the consummation by Purchaser of the transactions contemplated hereby, or the compliance with the terms hereof by Purchaser.

11.4 Assignment. Purchaser shall have the right, without Seller's consent, to assign its rights under this Agreement to, and nominate as Purchaser hereunder, the water utility that has been issued an order granting the CC&N described in Section 8.1 by giving written notice of such assignment to Seller at least twenty (20) days prior to the Closing Date. Except as described in the foregoing sentence, Purchaser may not assign any of its rights under this Agreement without Seller's prior written consent (which may be granted or withheld in Seller's reasonable discretion). Upon any such assignment, the assignee/nominee shall succeed to all of Purchaser's rights and obligations hereunder, and all references in this Agreement to Purchaser shall thereafter be deemed to refer to the assignee/nominee. Purchaser shall promptly advise Seller and Escrow Holder in writing of any such assignment or nomination, and of the assignee/nominee's name, address and telephone number. Any such notice shall be effective only upon actual receipt, notwithstanding anything to the contrary contained herein.

11.5 No Recordation. This Agreement shall not be recorded in whole or in part, and any party doing so or causing same to be done shall be deemed to be in default of this Agreement for all purposes hereof.

Article 12
Purchaser's Waiver and Release

12.1 Purchaser's Waiver and Release. AS PART OF PURCHASER'S AGREEMENT TO PURCHASE AND ACCEPT THE SUBJECT WATER FACILITIES "AS-IS WHERE-IS", AND NOT AS A LIMITATION ON SUCH AGREEMENT, PURCHASER HEREBY UNCONDITIONALLY AND IRREVOCABLY WAIVES ANY AND ALL ACTUAL OR POTENTIAL RIGHTS PURCHASER MIGHT HAVE REGARDING ANY FORM OF WARRANTY, EXPRESS OR IMPLIED, OF ANY KIND OR TYPE, RELATING TO THE SUBJECT WATER FACILITIES OR ANY OF THE MATTERS REFERRED TO IN SECTION 10.1 ABOVE ("PROPERTY CONDITION"). SUCH WAIVER IS ABSOLUTE, COMPLETE, TOTAL AND UNLIMITED IN ANY WAY. SUCH WAIVER INCLUDES, BUT IS NOT LIMITED TO, A WAIVER OF EXPRESS WARRANTIES, IMPLIED WARRANTIES, WARRANTIES OF FITNESS FOR A PARTICULAR USE, WARRANTIES OF MERCHANTABILITY, STRICT LIABILITY RIGHTS, AND CLAIMS, LIABILITIES, DEMANDS OR CAUSES OF ACTION OF EVERY KIND AND TYPE, WHETHER STATUTORY, CONTRACTUAL OR UNDER TORT PRINCIPLES, AT LAW OR IN EQUITY, INCLUDING, BUT NOT LIMITED TO, CLAIMS REGARDING DEFECTS WHICH MIGHT HAVE BEEN DISCOVERABLE, CLAIMS REGARDING DEFECTS WHICH WERE NOT OR ARE NOT DISCOVERABLE, ALL OTHER EXTANT OR LATER CREATED OR CONCEIVED OF STRICT LIABILITY OR STRICT LIABILITY TYPE CLAIMS AND RIGHTS, AND ANY CLAIMS UNDER CERCLA.

EFFECTIVE UPON THE CLOSING DATE, AND TO THE FULLEST EXTENT PERMITTED BY LAW, PURCHASER HEREBY RELEASES, DISCHARGES AND FOREVER ACQUITS SELLER AND EVERY ENTITY AFFILIATED WITH SELLER AND ALL OF THEIR OFFICERS, EMPLOYEES, AGENTS AND INDEPENDENT CONTRACTORS AND THE SUCCESSOR OF EACH AND EVERY ONE OF THEM FROM ALL DEMANDS, CLAIMS, LIABILITIES, OBLIGATIONS, COSTS AND EXPENSES WHICH PURCHASER MAY SUFFER OR INCUR RELATING TO THE CONDITION OR ANY OTHER ASPECT OF THE SUBJECT WATER FACILITIES. AS PART OF THE PROVISIONS OF THIS SECTION 12.1, BUT NOT AS A LIMITATION THEREON, PURCHASER HEREBY AGREES, REPRESENTS AND WARRANTS THAT THE MATTERS RELEASED HEREIN ARE NOT LIMITED TO MATTERS WHICH ARE KNOWN OR DISCLOSED, AND PURCHASER HEREBY WAIVES ANY AND ALL RIGHTS AND BENEFITS WHICH IT NOW HAS, OR IN THE FUTURE MAY HAVE

CONFERRED UPON IT, BY VIRTUE OF THE PROVISION OF FEDERAL, STATE OR LOCAL LAW, RULES OR REGULATIONS.

IN THIS CONNECTION AND TO THE EXTENT PERMITTED BY LAW, PURCHASER HEREBY AGREES, REPRESENTS AND WARRANTS THAT PURCHASER REALIZES AND ACKNOWLEDGES THAT FACTUAL MATTERS NOW UNKNOWN TO IT MAY HAVE GIVEN OR MAY HEREAFTER GIVE RISE TO CAUSES OF ACTION, CLAIMS, DEMANDS, DEBTS, CONTROVERSIES, DAMAGES, COSTS, LOSSES AND EXPENSES WHICH ARE PRESENTLY UNKNOWN, UNANTICIPATED AND UNSUSPECTED, AND PURCHASER FURTHER AGREES, REPRESENTS AND WARRANTS THAT THE WAIVERS AND RELEASES HEREIN HAVE BEEN AGREED UPON IN LIGHT OF THAT REALIZATION AND THAT PURCHASER NEVERTHELESS HEREBY INTENDS TO RELEASE, DISCHARGE AND ACQUIT SELLER FROM ANY SUCH UNKNOWN CAUSES OF ACTION, CLAIMS, DEMANDS, DEBTS, CONTROVERSIES, DAMAGES, COSTS, LOSSES AND EXPENSES WHICH MIGHT IN ANY WAY BE INCLUDED IN THE WAIVERS AND MATTERS RELEASED AS SET FORTH IN THIS SECTION 12.1. THE PROVISIONS OF THIS SECTION 12.1 ARE MATERIAL AND INCLUDED AS A MATERIAL PORTION OF THE CONSIDERATION GIVEN TO SELLER BY PURCHASER IN EXCHANGE FOR SELLER'S PERFORMANCE HEREUNDER.

PURCHASER HEREBY ACKNOWLEDGES AND AGREES THAT SELLER WILL NOT PAY TO ANY BROKER RETAINED BY PURCHASER ANY BROKERAGE FEE ASSOCIATED WITH PURCHASER'S ACQUISITION OF THE PROPERTY AND PURCHASER HEREBY AGREES TO INDEMNIFY THE SELLER AND BE WHOLLY RESPONSIBLE FOR ANY CLAIM BY ANY OTHER PERSON OR ENTITY FOR ANY BROKERAGE FEE SOUGHT FROM SELLER IN CONNECTION WITH PURCHASER'S ACQUISITION OF THE PROPERTY.

Article 13
Miscellaneous

13.1 Entire Agreement. This instrument contains the entire Agreement between the parties. Neither Seller nor its agents has made any representation or promise with respect to, or affecting the Subject Water Facilities or this Agreement not expressly contained herein.

13.2 Governing Law. This Agreement shall be governed by, and construed in accordance with, the internal laws of the State of Arizona without regard to conflicts of laws principles.

13.3 Headings. Headings in this Agreement are for convenience only and shall not be used to interpret or construe its provisions.

13.4 Time of Essence. Time is expressly declared to be of the essence of this Agreement.

13.5 Default; Specific Performance. If Seller defaults, Purchaser may terminate this Agreement and recover the Earnest Money and all other payments made on account of the purchase price. The preceding remedies shall be exclusive and in lieu of all other remedies provided by law, including, without limitation, the recovery of damages of any type.

If Purchaser defaults, Seller may enforce specific performance of this Agreement, or may terminate it and retain all of the Earnest Money as Seller's liquidated damages. Neither party shall then have any further right or claim against the other.

13.6 Notices. All notices, statements, requests, demands or other communications required under this Agreement shall be in writing, and shall be personally delivered, or sent by mail. Notice shall be effective (a) if personally delivered, when delivered, (b) if mailed, via 24-hour delivery, on the first business day after delivery thereof, or (c) if mailed, at midnight on the fourth business day after deposit in the mail with first-class postage pre-paid, certified mail, return receipt requested. Notices shall be addressed as follows:

If to Purchaser: JEN ARIZONA 36, LLC
MICHAEL K. JESBERGER
2222 WEST PINNACLE PEAK ROAD. #140
PHOENIX, AZ 85027

If to Seller: City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326
Attn: Roger Klingler, City Manager

Either party shall have the right to change the address at which notice shall be sent to it by giving written notice of such change of address to the other party in the same manner set forth for notices above.

13.7 Binding Effect. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and permitted assigns.

13.8 Counterparts. This Agreement may be executed in one or more counterparts, each of which shall be deemed an original but all of which together shall constitute one and the same instrument.

13.9 No Third Party Beneficiary. No term or provision of this Agreement is intended to be for the benefit of any person not a party hereto and no such other person shall have any right or cause of action hereunder.

13.10 Attorneys' Fees. In the event of the bringing of any action or suit by a party hereto against another party hereto by reason of any breach of any of the covenants or agreements on the part of the other party arising out of this Agreement, then, in that event, the prevailing party in such action or dispute, whether by final judgment or out-of-court settlement, shall be entitled to have and recover of and from the other party all costs and expenses of suit, including actual attorneys' fees.

13.11 Construction. The parties agree that, regardless of which party provided the initial form of this Agreement, drafted or modified one or more provisions hereof, or compiled, printed or copied this Agreement, this Agreement shall be construed solely as an offer to purchase from Purchaser, executed by Purchaser and provided to Seller for acceptance on the terms set forth herein, which acceptance and the existence of a binding agreement between Purchaser and Seller shall be evidenced by the execution hereof by Seller.

13.12 Waiver of Covenants, Conditions or Remedies. The waiver by one party of the performance of any covenant, condition or promise, or of the time for performing any act, under this Agreement shall not invalidate this Agreement nor shall it be considered a waiver by such party of any other covenant, condition or promise, or of the time for performing any other act required under this Agreement. The exercise of any remedy provided in this Agreement shall

not be a waiver of any consistent remedy provided by law, and the provisions of this Agreement for any remedy shall not exclude any other consistent remedies unless they are expressly excluded.

13.13 Legal Representation. Each party has received independent legal advice from its attorneys with respect to the advisability of executing this Agreement and the meaning of the provisions hereof. The provisions of this Agreement shall be construed as to the fair meaning and not for or against any party based upon any attribution of such party as the sole source of the language in question.

13.14 Relationship of Parties. The parties agree that their relationship is that of Seller and Purchaser, and that nothing contained herein shall constitute either party as being the agent or legal representative of the other for any purpose whatsoever, nor shall this Agreement be deemed to create any form of business organization between the parties hereto, nor is either party granted the right or authority to assume or create any obligation or responsibility on behalf of the other party, nor shall either party be in any way liable for any debt of the other

13.15 Cancellation. Seller gives notice to Purchaser that A.R.S. § 38-511 provides that Seller may, within three years after its execution, cancel any contract without penalty or further obligation made by Seller if any person significantly involved in initiating, negotiating, securing, drafting or creating the contract on behalf of Seller is at any time while the contract or any extension of the contract is in effect, an employee or agent of any other party to the contract in any capacity or a consultant to any other party to the contract with respect to the subject matter of the contract. In addition to the foregoing right to cancel a contract, Seller may recoup any fee or commission paid or due to any person significantly involved in initiating, negotiating, securing, drafting or creating the contract on behalf of Seller from any other party to the contract arising as a result of the contract

Article 14
Acceptance by Seller

14.1 Acceptance. This offer to purchase shall be irrevocable until Seller accepts or rejects the same, or until OCTOBER 15, 2021, whichever comes first. Upon its acceptance by Seller, this offer shall constitute the agreement between the parties upon all of the terms and conditions contained herein. If Seller does not accept this offer by the above date, it shall be deemed rejected and the Earnest Money paid hereunder shall be returned to Purchaser.

[Signatures on following pages.]

Date of Offer: JUNE 7, 2021.

By: MICHAEL K. JESBERGER

Its: AUTHORIZED SIGNER

[Purchaser]

Acceptance of Offer to Purchase

The foregoing offer to purchase is hereby accepted by the undersigned.

Date of Acceptance:_____, 2021

CITY OF BUCKEYE, ARIZONA, an Arizona municipal corporation

By: _____
Eric W. Orsborn

Its: Mayor

THEREFORE, the City of Buckeye, by its Mayor and City Clerk, have hereunto subscribed their names this _____ day of _____, 2021.

CITY:

THE CITY OF BUCKEYE, ARIZONA
an Arizona Municipal corporation

By: _____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda Aja, City Clerk

RECOMMENDED:

_____
Christopher A. Williams, Manager
Construction & Contracting Division

APPROVED AS TO FORM:

_____
City Attorney

FST:fst 3980628.5 4/20/2021

EXHIBIT A

LEGAL DESCRIPTION OF PROPERTY

EXHIBIT "A"

PARCEL NO. 1: (Sonoran Ridge Estates - Unit 1 Tract "C" (Well Site "A")

That portion of the West half of Section 33, Township 3 North, Range 2 West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona, being more particularly described as follows:

COMMENCING at the Northwest corner of said Section 33;

thence North 89 degrees 44 minutes 04 seconds East, along the North line of said West half of Section 33, a distance of 2,638.11 feet to the North quarter corner of said Section 33;

thence South 00 degrees 09 minutes 10 seconds East, along the North-South mid-section line of said Section 33, a distance of 3,403.38 feet;

thence South 89 degrees 50 minutes 50 seconds West, along a line perpendicular to the North-South mid-section line of said Section 33, a distance of 222.39 feet to the TRUE POINT OF BEGINNING;

thence South 13 degrees 27 minutes 38 seconds West, a distance of 141.42 feet;

thence North 31 degrees 32 minutes 22 seconds West, a distance of 162.29 feet;

thence South 58 degrees 10 minutes 54 seconds West, a distance of 271.34 feet to a point on a circular curve concave Southwesterly, having a central angle of 02 degrees 06 minutes 06 seconds and whose radius point bears South 58 degrees 10 minutes 54 seconds West, a distance of 545.00 feet;

thence Northwesterly along the arc of said curve, a distance of 19.99 feet to a non-tangent point;

thence North 56 degrees 04 minutes 48 seconds East, a distance of 272.03 feet;

thence North 31 degrees 32 minutes 22 seconds West, a distance of 164.07 feet;

thence South 76 degrees 32 minutes 22 seconds East, a distance of 141.42 feet;

thence South 31 degrees 32 minutes 22 seconds East, a distance of 156.34 feet to the TRUE POINT OF BEGINNING.

TOGETHER with an easement for roadway, waterline and public utilities over the following described property:

That portion of the West half of Section 33, Township 3 North, Range 2 West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona, being more particularly described as follows:

Continued . . . .

EXHIBIT "A"

COMMENCING at the Northwest corner of said Section 33;

thence North 89 degrees 44 minutes 04 seconds East, along the North line of said West half of Section 33, a distance of 2,638.11 feet to the North quarter corner of said Section 33;

thence South 00 degrees 09 minutes 10 seconds East, along the North-South mid-section line of said Section 33, a distance of 715.06 feet;

thence South 89 degrees 50 minutes 50 seconds West, along a line perpendicular to the North-South mid-section line of said Section 33, a distance of 467.17 feet to a point on a circular curve concave Southwesterly, having a central angle of 23 degrees 56 minutes 01 seconds and whose radius point bears South 60 degrees 43 minutes 06 seconds West, a distance of 783.00 feet, said point being the TRUE POINT OF BEGINNING;

thence Southwesterly along the arc of said curve, a distance of 327.08 feet to the point of tangency of said curve;

thence South 05 degrees 20 minutes 53 seconds East, a distance of 108.69 feet to the point of curvature of a circular concave Westerly having a central angle of 17 degrees 52 minutes 13 seconds and whose radius point bears South 84 degrees 39 minutes 07 seconds West, a distance of 1,533.00 feet;

thence Southwesterly along the arc of said curve, a distance of 478.13 feet to the point of tangency of said curve;

thence South 12 degrees 31 minutes 19 seconds West, a distance of 210.57 feet to the point of curvature of a circular curve concave Easterly, having a central angle of 15 degrees 05 minutes 28 seconds and whose radius point bears South 77 degrees 28 minutes 41 seconds East, a distance of 1,467.00 feet;

thence Southeasterly along the arc of said curve, a distance of 386.39 feet to the point of tangency of said curve;

thence South 02 degrees 34 minutes 09 seconds East, a distance of 458.88 feet to the point of curvature of a circular curve, concave Westerly, having a central angle of 30 degrees 22 minutes 47 seconds and whose radius point bears South 87 degrees 25 minutes 51 seconds West, a distance of 513.00 feet;

thence Southwesterly along the arc of said curve, a distance of 272.01 feet to the point of tangency of said curve;

thence South 27 degrees 48 minutes 39 seconds West, a distance of 482.60 feet to the point of curvature of a circular curve concave Northeasterly, having a central angle of 84 degrees 58 minutes 03 seconds and whose radius point bears South 62 degrees 11 minutes 21 seconds East, a distance of 17.00 feet;

Continued . . . .

thence Southeasterly along the arc of said curve, a distance of 25.21 feet to the point of reversed curvature with a circular curve concave Southwesterly, having a central angle of 25 degrees 20 minutes 19 seconds and whose radius point bears South 32 degrees 50 minutes 36 seconds West, a distance of 553.00 feet;

thence Southwesterly along the arc of said curve, a distance of 244.55 feet to a non-tangent point;

thence South 58 degrees 10 minutes 54 seconds West, a distance of 66.00 feet to a point on a circular curve concave Southwesterly having a central angle of 24 degrees 15 minutes 51 seconds and whose radius point bears South 58 degrees 10 minutes 54 seconds West, a distance of 487.00 feet;

thence Northwesterly along the arc of said curve, a distance of 206.24 feet to the point of compound curvature with a circular curve concave Southeasterly having a central angle of 96 degrees 09 minutes 21 seconds and whose radius point bear South 33 degrees 55 minutes 03 seconds West, a distance of 17.00 feet;

thence Southerly along the arc of said curve, a distance of 28.53 feet;

thence North 62 degrees 05 minutes 07 seconds West, a distance of 66.00 feet;

thence North 27 degrees 48 minutes 39 seconds East, a distance of 582.96 feet to the point of curvature of a circular curve concave Westerly, having a central angle of 30 degrees 22 minutes 47 seconds and whose radius point bears North 62 degrees 11 minutes 21 seconds West, a distance of 447.00 feet;

thence Northwesterly along the arc of said curve, a distance of 237.01 feet to the point of tangency of said curve;

thence North 02 degrees 34 minutes 09 seconds West, a distance of 458.88 feet to the point of curvature of a circular curve concave Easterly, having a central angle of 15 degrees 05 minutes 28 seconds and whose radius point bears North 87 degrees 25 minutes 51 seconds East, a distance of 1,533.00 feet;

thence Northeasterly along the arc of said curve, a distance of 403.78 feet to the point of tangency of said curve;

thence North 12 degrees 31 minutes 19 seconds East, a distance of 210.57 feet to the point of curvature of a circular curve concave Westerly, having a central angle of 17 degrees 52 minutes 13 seconds and whose radius point bears North 77 degrees 28 minutes 41 seconds West, a distance of 1,467.00 feet;

thence Northeasterly along the arc of said curve, a distance of 457.55 feet to the point of tangency of said curve;

Continued . . . .

thence North 05 degrees 20 minutes 53 seconds West, a distance of 108.69 feet to the point of curvature of a circular curve concave Southwesterly, having a central angle of 23 degrees 56 minutes 01 seconds and whose radius point bears South 84 degrees 39 minutes 07 seconds West, a distance of 717.00 feet;

thence Northwesterly along the arc of said curve, a distance of 299.50 feet to a non-tangent point;

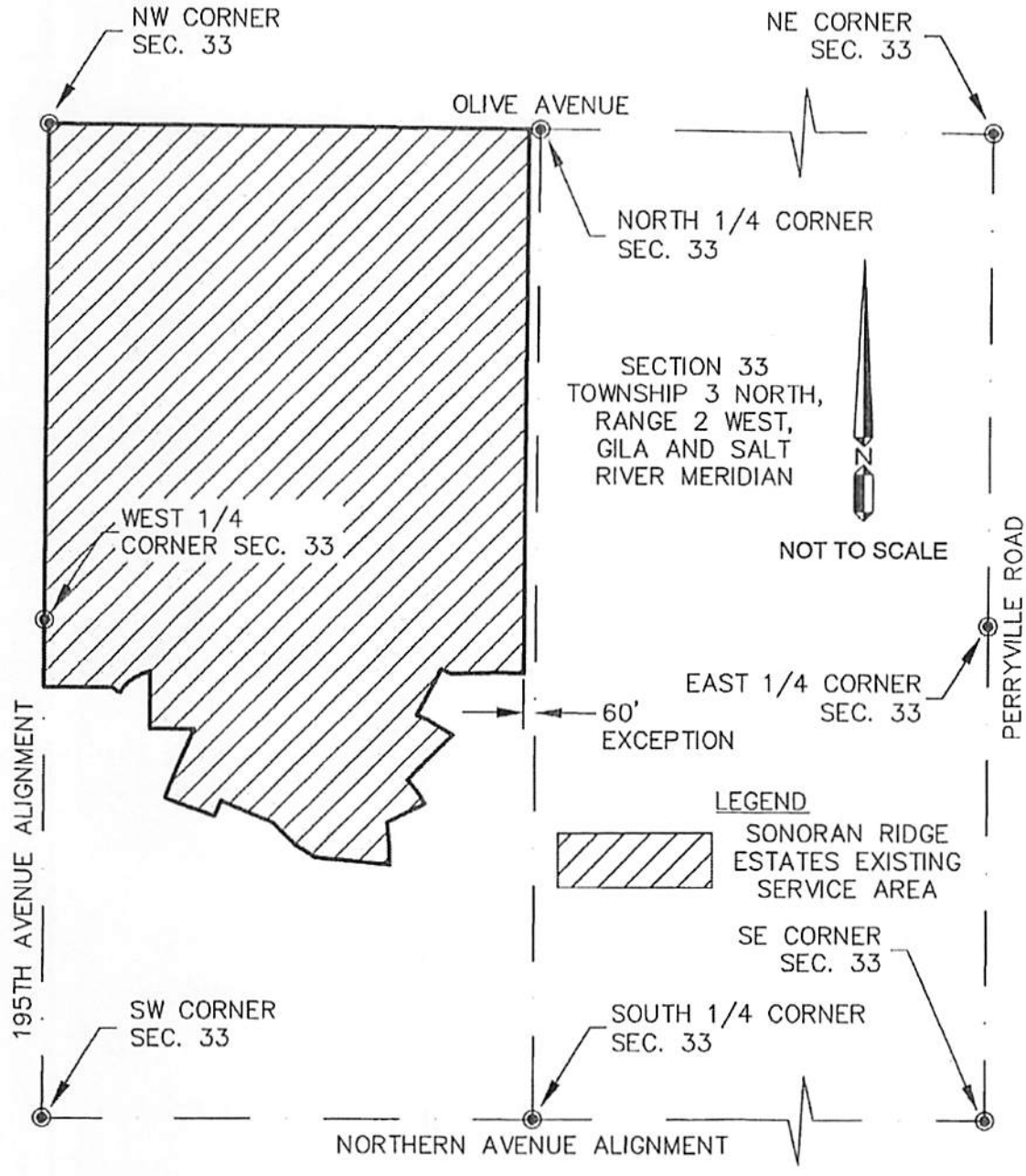
thence North 60 degrees 43 minutes 06 seconds East, a distance of 66.00 feet to the TRUE POINT OF BEGINNING.

Continued . . . .

EXHIBIT B

DEPICTION OF SERVICE AREA

SONORAN RIDGE ESTATES
EXISTING SERVICE AREA
EXHIBIT



BUCKEYE, AZ	ORIGINAL PLAN DATE 04.26.2021	REVISION DATE 04.26.2021
	PROJECT SONORAN RIDGE ESTATES	SHEET NUMBER SHEET 1 OF 1

EXHIBIT C

FORM OF BILL OF SALE

BILL OF SALE

This Bill of Sale is executed and delivered as of _____, 202_ (**"Effective Date"**), by the undersigned Seller.

BACKGROUND

A. **THE CITY OF BUCKEYE, ARIZONA**, an Arizona municipal corporation (**"Seller"**), pursuant to that certain Bid Submission and Purchase Agreement Between the City of Buckeye and _____, as Purchaser (the **"Purchase Contract"**), has sold and conveyed to _____ (**"Purchaser"**) the assets listed on Exhibit "A" attached hereto (the **"Assets"**).

B. The terms and provisions of the Purchase Contract in effect between Seller and Purchaser relating to the sale and purchase of the Assets require, among other things, that Seller execute this Bill of Sale transferring to Purchaser the Assets.

C. Capitalized terms which are used in this Bill of Sale but which are not defined specifically in this Bill of Sale will be ascribed the meanings contained in the Purchase Contract.

TRANSFER AND ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Seller makes the following conveyances:

1. Transfer of Assets. Seller sells, transfers, and conveys to Purchaser, and its successors and assigns, all of the Assets.

2. Seller Warranty. Seller warrants that it is the lawful owner of the Assets and hereby certifies that it has the good right to sell the same as aforesaid, and that the Assets is free and clear of all claims, liens and other encumbrances whatsoever. Seller agrees to execute and deliver to Purchaser such certificate(s) of title or other instruments of sale, transfer, assignment and conveyance and all consents of third parties necessary thereto, in form and substance reasonably satisfactory to Purchaser, to effectively vest in Purchaser good indefeasible, marketable and merchantable title to the Assets, free and clear of all security interests, liens, claims or encumbrances of any nature or kind whatsoever, except those expressly assumed or expressly taken subject to by Purchaser in the Purchase Contract.

3. "As Is." Except as is expressly stated in this Bill of Sale and the Purchase Contract, neither Seller nor any agent representing Seller has made any understandings, warranties, agreements, promises or representations, express or implied, which induced Purchaser to enter into this Bill of Sale. By accepting the conveyance of the Assets as stated herein, Purchaser acknowledges that SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, AS TO ANY ASSETS BEING CONVEYED HEREIN, AND SPECIFICALLY

DISCLAIMS ANY WARRANTIES IMPLIED BY LAW INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE.

SELLER:

CITY OF BUCKEYE, ARIZONA, an Arizona municipal corporation

By:_____
Name:_____
Title:_____

EXHIBIT A to Bill of Sale

[List of Assets]

EXHIBIT D

FORM OF SPECIAL WARRANTY DEED

When recorded, return to:

SPECIAL WARRANTY DEED

For consideration of Ten Dollars ($10.00), and other valuable consideration, **THE CITY OF BUCKEYE, ARIZONA**, an Arizona municipal corporation (**"Grantor"**), hereby conveys to _____ (**"Grantee"**), the following real property situated in Maricopa County, Arizona, together with all appurtenant benefits, rights, and privileges (collectively, the **"Property"**):

See Exhibit "A" attached hereto and incorporated herein by this reference.

SUBJECT TO: current taxes; assessments; patent reservations; all covenants, conditions, restrictions, reservations, easements, encumbrances, liens, and declarations or other matters of record or to which reference is made in the public record; any and all conditions, easements, encroachments, rights-of-way, or restrictions which an accurate survey, of the Property would reveal.

And Grantor binds itself and its successors to warrant and defend the title to the Property solely against all acts of Grantor and no other subject to the matters above set forth.

Recordation of this deed is exempt from the requirement of filing of an affidavit of property value, pursuant to the exemption set forth in A.R.S. Section 11-1134(A)(3).

DATED this ___ day of _____, 202__.

CITY OF BUCKEYE, ARIZONA, an Arizona municipal corporation

By: _____

Name: _____

Title: _____

STATE OF ARIZONA)
) ss.
County of Maricopa)

The foregoing instrument, Special Warranty Deed, consisting of _____ pages, including this page and all Exhibits, was acknowledged before me this _____ day of _____, 202__ by _____, the _____ of the CITY OF BUCKEYE, Arizona, an Arizona municipal corporation, on behalf of the City.

_____
Notary Public

(Affix Notary Stamp Here)

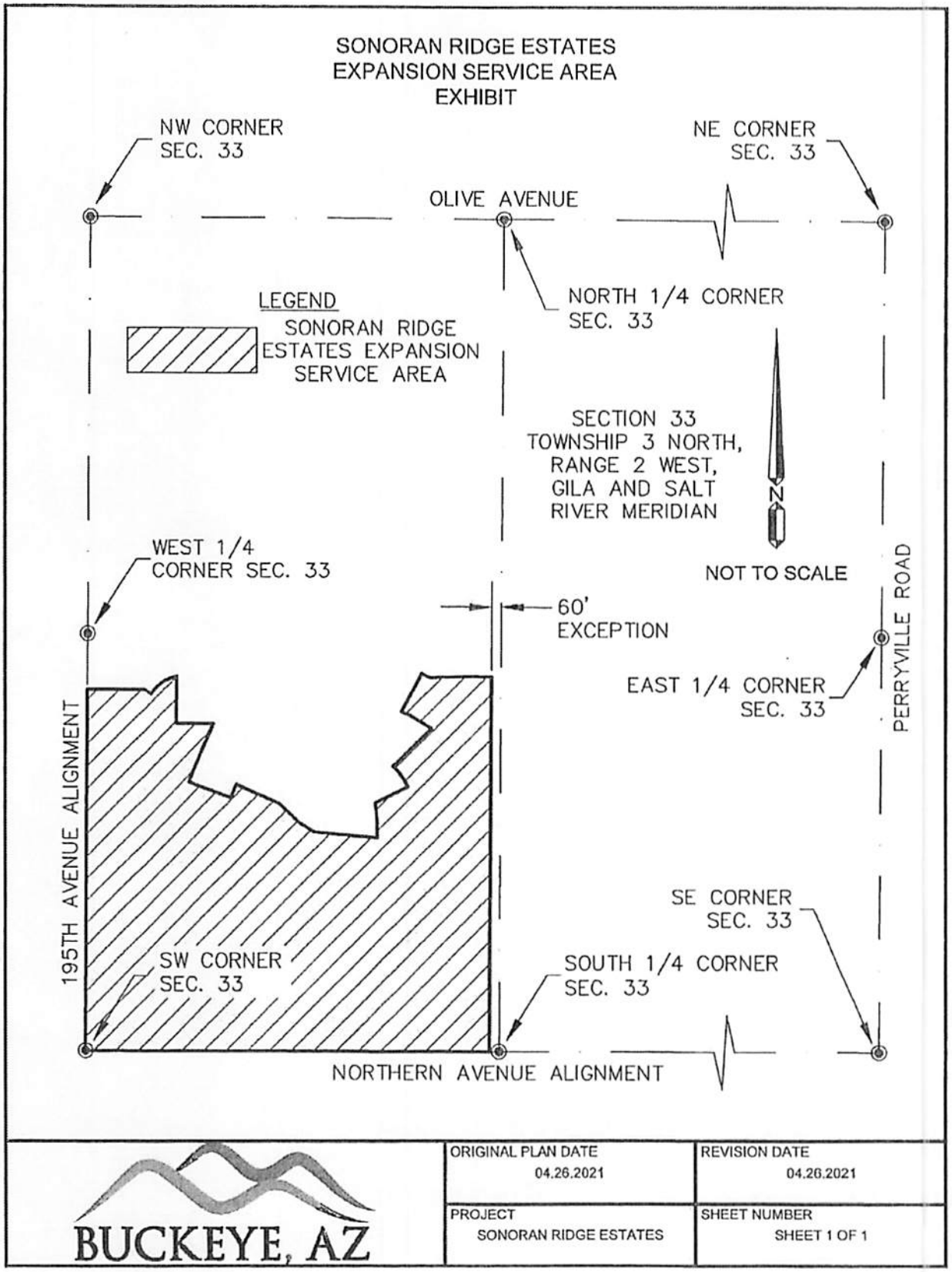
EXHIBIT A to Special Warranty Deed

Legal Description

EXHIBIT E

DEPICTION OF AREA TO BE ADDED TO SERVICE AREA

SONORAN RIDGE ESTATES
EXPANSION SERVICE AREA
EXHIBIT



BUCKEYE, AZ

ORIGINAL PLAN DATE	REVISION DATE
04.26.2021	04.26.2021
PROJECT	SHEET NUMBER
SONORAN RIDGE ESTATES	SHEET 1 OF 1

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.G. Watson Road and Broadway Road Preliminary Design Roadway Intersection Improvements.
DATE PREPARED: 08/12/21	**DISTRICT NO.:**
STAFF LIAISON: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225	
DEPARTMENT: Construction and Contracting	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on Task Order No. 15 (Contract 2016-020-032) between the City of Buckeye, an Arizona municipal corporation, and Kimley-Horn and Associates, Inc., an Arizona corporation, to provide preliminary design services for roadway intersection improvements to Watson Road and Broadway Road; and authorizing the Mayor to execute and deliver said Task Order on behalf of the City.

RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

ADDITIONAL RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:
As part of the Capital Improvement Program Kimley-Horn and Associates, Inc. have been selected to develop the preliminary design for the ultimate 7-lane intersection alignment and footprint, to develop interim widening alignment and footprint alternatives, and to develop a Basis of Design Report, Preliminary (15% level) Design Plans, and cost estimates for the interim widening of Watson Road and Broadway Road. The interim widening will consist of widening Watson Road to a 5-lane section and widening Broadway Road to a 3-lane section.

BENEFITS:
The intent of the interim widening is to minimize impacts to the Irene Trust property on the northeast corner and the RID irrigation canal on the east side of Watson Road. Once the Preliminary Plans have been approved, a separate contract will be initiated for the final design of interim intersection improvements.

FINANCIAL IMPACT STATEMENT:
Task Order not to exceed $129,908.20. Approved budget for FY 2021-22 is $325,000

CURRENT FISCAL YEAR TOTAL COST:
$129,908.20

BUDGETED:

Yes

FISCAL YEAR:
FY22

FUND/DEPARTMENT:
50213170-543150

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
TO #15.pdf
Watson and Broadway Map.jpg
CO 4 FE 2-17-21 Kimley-Horn.pdf

CITY OF BUCKEYE
ON-CALL CONSULTING FOR
ENGINEERING AND ARCHITECTURAL SERVICES
CONTRACT 2016-020-032

KIMLEY-HORN AND ASSOCIATES, INC.

TASK ORDER #15
WATSON ROAD & BROADWAY ROAD INTERSECTION IMPROVEMENTS

In accordance with the On-Call Contract between the City of Buckeye (the "City") and Kimley-Horn and Associates, Inc. ("Consultant"), dated the 7th day of March, 2017, the Consultant will perform the following Scope of Services as detailed in Article 1, subject and pursuant to the terms and conditions of the On-Call Contract for Engineering and Architectural Services.

ARTICLE 1
SCOPE OF SERVICES

Engineer will provide preliminary design services for roadway improvements to the intersection of Watson Road and Broadway Road in Buckeye, AZ more particularly set forth in Exhibit A attached hereto.

ARTICLE 2
SCHEDULE OF COMPLETION OF SERVICES

The Consultant shall commence work immediately upon issuance of the Notice to Proceed and complete the services and deliverables within **240 calendar days**, or unless terminated as otherwise provided pursuant to the terms and conditions of the Consulting Services Contract for On-Call Engineering Services.

ARTICLE 3
FEE BREAKDOWN

Total cost to complete the services under this Task Order as identified in Article 1 is an amount Not to Exceed **One Hundred Twenty Nine Thousand Nine Hundred Eight Dollars and Twenty Cents ($129,908.20),** pursuant to Exhibit A.

This Task Order No. 15 is subject to the terms and requirements of the Consultant Contract and may be cancelled pursuant to the provisions of Arizona Revised Statutes Section 38-511. If there is a discrepancy between the terms and conditions of the Contract and Scope of Work, the Contract supersedes the Scope of Work.

[SIGNATURE PAGE TO FOLLOW]

THEREFORE, the City of Buckeye by its Mayor and City Clerk have hereunto subscribed their names this _____.

CITY:
THE CITY OF BUCKEYE, ARIZONA
an Arizona municipal corporation

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda Aja, City Clerk

RECOMMENDED:

CA Williams
_____
Christopher A. Williams, Manager
Construction and Contracting Division

APPROVED AS TO FORM:

_____
City Attorney

CONSULTANT:
KIMLEY-HORN AND ASSOCIATES, INC.

_____
Brian Smalkoski, Vice President

EXHIBIT A

CONSULTANT'S PROPOSAL

Kimley»Horn

June 17, 2021

Mr. Chris Williams
Construction & Contracting Division
City of Buckeye
530 Monroe Avenue
Buckeye, AZ 85326

Re: ***Watson Road & Broadway Road Intersection Improvements***
Preliminary Design Scope of Services
Revision 1

Dear Mr. Williams:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") is pleased to submit this letter agreement (the "Agreement") to the City of Buckeye ("Client") for preliminary design services providing roadway improvements to the intersection of Watson Road and Broadway Road in Buckeye, AZ.

Project Understanding

The Watson Road/Broadway Road intersection is located in the City of Buckeye, Arizona.

Existing Watson Road in the south leg of the intersection consists of one travel lane in the northbound direction and two travel lanes in the southbound direction. The west side of Watson Road south of Broadway Road is built out to its ultimate half street width with curb, gutter and 65-feet of right-of-way, but no sidewalk or sidewalk ramp in the southwest corner of the intersection. The east side of Watson Road south of Broadway Road consists of a rural street section (no curb and gutter) with an existing irrigation ditch running along the east side and 33-feet of right-of-way.

Existing Broadway Road in the east leg of the intersection consists of one travel lane in each direction. The existing roadway is a rural street section with an existing irrigation ditch and overhead electrical line running along the south side with 33-feet of right-of-way. The north side of Broadway Road also consists of 33-feet of right-of-way with a residential home (Irene Trust, Assessor Parcel Number (APN) 504-22-020) near the intersection.

Existing Watson Road in the north leg of the intersection consists of one travel lane in each direction with a southbound left turn lane. The existing roadway is a rural street section with an existing irrigation ditch running along the east side with a residential home (Irene Trust) located along the frontage near the intersection. The Maricopa County Assessor's website does not indicate any existing right-of-way along the east side of Watson Road north of the intersection. The west side of Watson Road consists of an existing irrigation ditch and overhead electrical line running along the west side with 33-feet of right-of-way.

Existing Broadway Road consists of one travel lane in each direction with an eastbound right turn lane. The north side of Broadway Road west of Watson Road consists of a rural street section (no curb and gutter) with an existing irrigation ditch/pond running along the north side and 33-feet of right-of-way. The south side of Broadway Road west of Watson Road is built out to its ultimate half street width with curb, gutter and 65-feet of right-of-way, but no sidewalk or sidewalk ramp in the southwest corner of the intersection.

The purpose of this project is to develop the ultimate 7-lane intersection alignment and footprint, to develop an interim widening alignment and footprint alternatives, and to develop a Basis of Design Report, Preliminary (15% level) Design Plans, and cost estimates for the interim widening of Watson Road and Broadway Road. The interim widening will consist of widening Watson Road to a 5-lane section and widening Broadway Road to a 3-lane section. The intent of the interim widening is to minimize impacts to the Irene Trust property on the northeast corner and the RID irrigation canal on the east side of Watson Road. Once the Preliminary Plans have been approved, a separate contract will be initiated for the final design of interim intersection improvements.

Scope of Services

Kimley-Horn will provide the services specifically set forth below.

Task 1. – Project Management and Meetings

a. Project management includes contract management and internal meetings with staff. This task coordinates and administers the day-to-day operations of the project, including organizing and filing project data and communication files, responding to project correspondence including emails, performance of monthly budget updates, and schedule monitoring. This task also includes the management of sub-consultants, and interfacing and communication determined to be reasonably necessary to keep stakeholders informed.

b. Kimley-Horn will submit bi-weekly progress reports to the City's Project Manager summarizing tasks in progress, upcoming scheduled tasks, and identified design issues.

c. This task includes the preparation of monthly invoices to the City for services performed.

d. Kimley-Horn will attend one (1) Project Kickoff Meeting, which will be scheduled following the receipt of Notice to Proceed (NTP). The Project Kickoff Meeting will be held at the City's offices and will be scheduled in coordination with City staff. Kimley-Horn will be responsible for preparing the kick-off meeting agenda, sign-in sheet, presentation, handout material, attending and facilitating the kick-off meeting, and submitting notes of the meeting to the City.

e. Kimley-Horn will attend up to three (3) project progress meetings. Project progress meetings may be in the form of design review meetings or comment resolution meetings. Meetings will be at the City offices and will be scheduled at the request of the City. Kimley-Horn will be responsible for preparing the meeting agenda, sign-in sheet, presentation, handout material, attending and facilitating the meeting, and submitting notes of the meeting to the City.

f. Kimley-Horn will perform a field review to verify the topographic survey and above-ground utility features. Kimley-Horn will document the site visit with photographs. Kimley-Horn will inform City staff of the field review one week prior to the field review taking place.

Task 2. – Data Collection and Base Map

a. The City will furnish the latest quarter section maps for City-owned facilities (water, sewer, right-of-way, storm drain and aerials) that are available for the project limits to Kimley-Horn.

b. Kimley-Horn will utilize the proposed topographic survey and existing record drawings/drainage reports acquired from the City to develop a project base map in AutoCAD.

Task 3. – Utility Coordination

a. Kimley-Horn will submit a BlueStake ticket to request utility mapping from existing private utility companies with facilities within the project limits. Kimley-Horn will use the information obtained from the private utility company mapping to prepare an existing utilities base file.

a. Kimley-Horn will identify readily apparent utility conflicts with each of the developed alignments and will communicate those potential utility conflicts to the City.

b. Obtaining utility clearance is not included as a part of this preliminary design scope of services.

c. Kimley-Horn will organize and lead one (1) general utility coordination meeting to confirm the location of existing utility infrastructure, request Prior Rights/easement information, and other utility related items.

d. Kimley-Horn will organize up to two (2) individual utility coordination meetings, one with Roosevelt Irrigation District (RID) and one with Arizona Public Service (APS) to discuss their specific utility related issues related to the proposed intersection improvements.

e. Utility coordination meetings will be held virtually through the Microsoft Teams platform.

Task 4. – Intersection Alternatives

a. Kimley-Horn will develop the intersection layout and roadway footprint for the ultimate 7-lane section for both Watson Road and Broadway Road. This layout will be symmetrical around the section line and will be based on the City's standard 7-lane typical section for major arterial roadways.

b. Kimley-Horn will develop the intersection layout, alignment, and roadway footprint for the interim 5-lane widening of Watson Road and 3-lane widening of Broadway Road. The following alternatives will be considered for the interim widening:

   i. Shifted Alternative: Construct the ultimate 7-lane west curb line and align the 5-lane buildout to match this

   ii. Symmetrical Alternative (Allowance item): 5-lane widening symmetrically around the section line.

      (1) This alternative will only be developed if directed by the City and is included in this contract as a design allowance. See **Task 10** for additional information.

c. Kimley-Horn will analyze the typical section and lane widths of the interim 5-lane buildout to determine if a narrower roadway section would decrease impacts to existing features. Kimley-Horn will present up to two (2) typical section alternatives to the City for review and approval.

d. Kimley-Horn will analyze existing traffic data to develop recommendations for turn lane requirements for the 5-lane interim intersection. This traffic data will be taken from traffic studies provided by the City of Buckeye. Collecting traffic counts or performing a full traffic study, report, or analysis are not included as a part of this contract.

   i. Traffic turn lane analysis will not be performed for the 7-lane ultimate build-out; it is assumed that dual left and separate right turn lanes will be provided on all four approaches.

e. The Intersection Alternatives will be designed in accordance with City of Buckeye standards. This ultimate intersection footprint will consist of separated right turn lanes similar to the ultimate intersection footprint developed at Miller Road and Lower Buckeye Road. It is assumed the both the ultimate and interim alternatives will taper down to match the existing 2-lane roadways on all four legs of the intersection.

f. Profiles will not be developed for the Alignment Alternatives. Profiles and modeling for the Selected Alternative are provided in **Task 5**.

g. Kimley-Horn will present the Intersection Alternatives on roll plots showing roadway geometry and identifying conflicts with utility and other above-ground features to the City for review. Kimley-Horn will respond to up to one (1) round of comments on the Intersection Alternatives.

h. Kimley-Horn will prepare an Intersection Alternatives Evaluation Matrix which compares each Intersection Alternative based upon advantages and disadvantages

related to right-of-way acquisition, utility impacts, constructability, impacts to the public, and project cost.

i. Kimley-Horn will provide an Intersection Alternative recommendation based on the results of the Intersection Alternatives Evaluation Matrix. The City will determine the Preferred Intersection Alternative based on the Final Intersection Alternatives submittal and the Intersection Alternatives Evaluation Matrix.

j. Kimley-Horn will prepare an engineer's opinion of probable cost for each of the Intersection Alternatives. See **Task 7** for additional information.

k. Two submittals of the Intersection Alternatives are included with this scope of services: Preliminary and Final. See **Task 8** for additional information.

Task 5. – Preliminary Plans

a. Kimley-Horn will prepare Preliminary (15% Level) Design Plans based on the Preferred Intersection Alternative for the interim Watson Road/Broadway Road intersection. The Preliminary Plans will be prepared in accordance with City of Buckeye and MAG standards.

b. A profile will be developed for the Preferred Intersection Alternative as a part of the Preliminary Plans development.

c. Kimley-Horn anticipates the following sheet count for the Preliminary Plans:

   i. Cover Sheet (1 Sheet)

   ii. Typical Sections (1 Sheet)

   iii. Miller Road Paving Plan & Profile Sheets (4 Sheets, 1"=20' Scale)

   iv. Baseline Road Paving Plan & Profile Sheets (4 Sheets, 1"=20' Scale)

   v. Miscellaneous Detail Sheets (2 Sheets)

   vi. Miller Road Signing & Marking Plan Sheets (2 Sheets, 1"=40 Scale)

   vii. Baseline Road Signing & Marking Plan Sheets (2 Sheets, 1"=40 Scale)

   viii. Traffic Signal Plan (1 Sheet)

d. The design callouts for drainage will be shown on the paving plan & profile sheets. Profile information will show centerline profile only; curb profiles will not be provided.

e. Street lighting will be provided only at the intersection as a part of the traffic signals; separate street lighting will not be provided.

f. A preliminary model will be prepared to generate cut/fill lines.

g. Alignment geometry will be shown in the paving plan & profile sheets.

h. Pavement structural section will match City standards. Geotechnical investigations and pavement design are excluded from this contract and will be conducted during final design.

i. Kimley-Horn will prepare an engineer's opinion of probable cost at each submittal stage. See **Task 7** for more information.

j. Two submittals of the Preliminary Plans is included with this scope of services, Preliminary and Final. See **Task 8** for additional information.

Task 6. – Basis of Design Memo

a. Kimley-Horn will prepare a Basis of Design Memo that will summarize the project existing conditions, project constraints, right-of-way requirements, proposed drainage design, design criteria, assumptions made when developing the Intersection Alternatives, and reasoning for selecting the Preferred Intersection Alternative. The memo will include the Intersection Alignment Evaluation Matrix prepared during the development of the Intersection Alignment Alternatives, as well as the roll plot showing the ultimate 7-lane roadway footprint.

b. Two submittals of the Basis of Design Memo are included with this scope of services: Preliminary and Final. See **Task 8** for additional information.

Task 7. – Cost Estimate

a. An engineer's opinion of probable cost will be developed for each Intersection Alternatives submittal. Quantities will be compiled in a list and will be labeled using City item numbers. Unit prices will be derived using readily available bid data from projects with similar improvements.

b. An engineer's opinion of probable cost will be developed and submitted at the Preliminary Plans submittal stage. Quantities will be compiled in a list and will be labeled using City item numbers. Unit prices will be derived using readily available bid data from projects with similar improvements.

Task 8. – Submittals and QA/QC

a. The following submittals are included as a part of this contract:

   i. Preliminary Intersection Alternatives (on roll plots), Intersection Alternatives Evaluation Matrix, and engineer's opinion of probable costs (one for each Intersection Alternative)

   ii. Final Intersection Alternatives (on roll plots), Intersection Alternatives Evaluation Matrix, and engineer's opinion of probable costs (one for each Intersection Alternative)

   iii. Draft Basis of Design Memo and Preliminary Plans, and engineer's opinion of probable cost.

   iv. Final Basis of Design Memo and Preliminary Plans, and engineer's opinion of probable cost

b. Each submittal will electronic PDF versions of the documents listed above. Hard copies may be provided upon request.

c. Following each submittal, Kimley-Horn will compile received comments into a Summary of Comments form. Kimley-Horn will provide comment responses and will address comments prior to the subsequent submittal.

d. Kimley-Horn will perform internal quality control reviews prior to each submittal.

Task 9. – Right-of-Way and Easements

a. New right-of-way and easements are anticipated to be needed for the proposed improvements. Kimley-Horn will develop interim and ultimate right-of-way requirements during the development of the Intersection Alternatives. Kimley-Horn will further refine the required right-of-way during the development of the Preliminary Plans.

b. Following the submittal of the Final Preliminary Plans, Kimley-Horn will coordinate with its survey subconsultant, AZTEC Engineering, to develop legal descriptions and exhibits for the required right-of-way for the preferred alternative.

c. The preparation of right-of-way strip maps, right-of-way clearance, appraisals, acquisitions, or property owner coordination is not included as a part of this contract.

Direct Expenses

a. Direct reimbursable expenses such as express delivery services, fees, vehicular mileage, and other direct expenses will be billed at times cost. A summary of anticipated expenses is shown in **Appendix A** of this document.

DESIGN ALLOWANCES

Task 10. – Symmetrical Interim Intersection Alternative

Upon request of the City, Kimley-Horn will develop a second intersection alternative for the interim 5-lane widening of Watson Road. This alternative will consist of a symmetrical widening of Watson Road around the section line. Similar to the other intersection alternatives, this alternative will be presented on a roll plot for the City's review and will include an engineer's opinion of probable cost.

SUBCONSULTANT SERVICES

Task 11. – Survey, Right-of-Way, and Easements

AZTEC Engineering will perform topographic design survey, collect title reports, and prepare legal descriptions and exhibits. AZTEC Engineering's scope of services is included as **Appendix C** of this document.

Services Not Included

Any other services, including but not limited to the following, are not included in this Agreement:

- Preparation of Final Design plans, specifications, and estimate
- Attending more meetings than specifically described in the sections above
- Geotechnical analysis and pavement design
- Environmental/cultural analysis or clearance
- Public involvement
- Post design services
- Subsurface utility engineering (potholing, utility locating, etc.)
- Landscaping or aesthetic improvements
- More than four submittals

Information Provided By Client

Kimley-Horn shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives. The Client shall provide all information requested by Kimley-Horn during the project.

Schedule

We will provide our services as expeditiously as practicable with the goal of completing the Final Basis of Design Report and Preliminary Plans Submittal in accordance with the design schedule included as **Appendix B** of this document.

This design schedule assumes a Notice to Proceed (NTP) date of August 1, 2021. Following the receipt of NTP, Kimley-Horn will work with the City to refine the schedule based on the NTP date.

It is understood that the City requests the preliminary cost estimate will be provided to the City by December 2021 and the project completion date be April 2022.

Fees & Expenses

Kimley-Horn will perform the services in Tasks 1 - 11 on a labor fee plus expense basis with the maximum labor fee shown in **Appendix A** of this document.

Kimley-Horn will not exceed the total maximum labor fee shown without authorization from the Client. Individual task amounts are provided for budgeting purposes only. Kimley-Horn reserves the right to reallocate amounts among tasks as necessary.

Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.

Closure

We appreciate the opportunity to provide these services to you. Please contact me if you have any questions.

Very truly yours,

KIMLEY-HORN AND ASSOCIATES, INC.



By: Joel Varner, P.E.
Project Manager

APPENDIX A
FEE SUMMARY

Summary of Consultant's Compensation

Kimley»Horn

Project Location:	Watson Road and Broadway Road
Project Description:	Intersection Improvements Preliminary Design
Version:	Revision 1

7740 N. 16th Street
Suite 300
Phoenix, AZ 85020
602.944.5500

6/17/2021

CONTRACT LABOR

Classification	Man Hours	Billable Rates		Labor Costs
Senior Project Manager	32	$ 199.00		$ 6,368.00
Project Manager	108	$ 175.00		$ 18,900.00
Professional	211	$ 135.00		$ 28,485.00
Analyst/ Designer	300	$ 111.00		$ 33,300.00
Admin	26	$ 90.00		$ 2,340.00
			Subtotal Contract Labor	$ 89,393.00

DIRECT AND OUTSIDE EXPENSES

General Expenses		$ 720.00
	Subtotal Direct & Outside Expenses	$ 720.00

DESIGN ALLOWANCES

Classification	Man Hours	Billable Rates		Labor Costs
Senior Project Manager	2	$ 199.00		$ 398.00
Project Manager	7	$ 175.00		$ 1,225.00
Professional	13	$ 135.00		$ 1,755.00
Analyst/ Designer	30	$ 111.00		$ 3,330.00
Admin	0	$ 90.00		$ -
			Subtotal Design Allowances	$ 6,708.00

SUBCONSULTANT ALLOWNACES

Subconsultant	Task		Fee
AZTEC Engineering	Survey, Right-of-Way, and Easements		$ 33,087.20
		Subtotal Subconsultant Allowances	$ 33,087.20

TOTALS

Subtotal Contract Labor	$ 89,393.00
Subtotal Direct & Outside Expenses	$ 720.00
Subtotal Contract Fee	$ 90,113.00
Subtotal Design Allowances	$ 6,708.00
Subtotal Subconsultant Allowances	$ 33,087.20
Total Contract Fee & Allowances	$ 129,908.20

Detail of Consultant's Compensation
City of Buckeye
Watson Road and Broadway Road
Intersection Improvements Preliminary Design - Revision 1

TASK DESCRIPTION	SUBTOTAL	Senior Project Manager	Project Manager	Professional	Analyst/ Designer	Admin
		$ 199.00	$ 175.00	$ 135.00	$ 111.00	$ 90.00
TASK 1 - PROJECT MANAGEMENT AND MEETINGS	**$ 10,328.00**	**6**	**26**	**24**	**4**	**10**
Project Administration, Bi-Weekly Progress Reports, Invoicing	$ 2,650.00		10			10
Project Kickoff Meeting (up to 1)	$ 1,797.00	3	3	5		
Project Progress Meetings (up to 3)	$ 4,197.00	3	9	15		
Project Field Review	$ 1,684.00		4	4	4	
	$ -					
TASK 2 - DATA COLLECTION & BASE MAP	**$ 1,788.00**	**-**	**-**	**4**	**8**	**4**
Collecting Maps and Quarter Sections	$ 804.00				4	4
Developing Project Base Map	$ 984.00			4	4	
	$ -					
TASK 3 - UTILITY COORDINATION	**$ 5,202.00**	**-**	**6**	**10**	**22**	**4**
Blue Stake, Collect As-Builts	$ 582.00				2	4
Utility Base Map	$ 1,428.00			4	8	
General Utility Coordination Meeting (up to 1)	$ 1,064.00		2	2	4	
Individual Utility Coordination Meetings (up to 2) (RID & APS)	$ 2,128.00		4	4	8	
	$ -					
TASK 4 - INTERSECTION ALTERNATIVES	**$ 19,630.00**	**8**	**26**	**44**	**68**	**-**
Develop Ultimate 7-Lane Footprint and Roll Plot	$ 3,954.00	2	4	8	16	
Develop Interim Shifted Alternative Footprint and Roll Plot	$ 3,954.00	2	4	8	16	
Develop Interim Tyipcal Section Alternatives	$ 2,668.00	2	2	6	10	
Traffic Analysis	$ 2,878.00	2	8	8		
Updating Intersection Alternatives per City Comments	$ 3,778.00		4	8	18	
Develop Intersection Evaluation Matrix	$ 2,398.00		4	6	8	
	$ -					
TASK 5 - PRELIMINARY PLANS	**$ 32,248.00**	**2**	**26**	**83**	**145**	**-**
Cover Sheet (1 Sheet)	$ 468.00			1	3	
Typical Sections (1 Sheet)	$ 1,508.00		2	2	8	
Watson Road Paving & Profile Sheets (4 Sheets)	$ 4,984.00		4	12	24	
Broadway Road Paving & Profile Sheets (4 Sheets)	$ 4,984.00		4	12	24	
Miscellaneous Detail Sheets (2 Sheets)	$ 3,556.00		4	8	16	
Watson Road Signing & Marking Sheets (2 Sheets)	$ 4,364.00		2	10	24	
Broadway Road Signing & Marking Sheets (2 Sheets)	$ 4,364.00		2	10	24	
Traffic Signal Plan (1 Sheet)	$ 2,716.00	2	2	8	8	
Profile Development	$ 1,428.00			4	8	
Preliminary Model and Cut/Fill Line Development	$ 2,320.00		4	12		
Drainage Design and Layout	$ 1,556.00		2	4	6	

Detail of Consultant's Compensation
City of Buckeye
Watson Road and Broadway Road
Intersection Improvements Preliminary Design - Revision 1

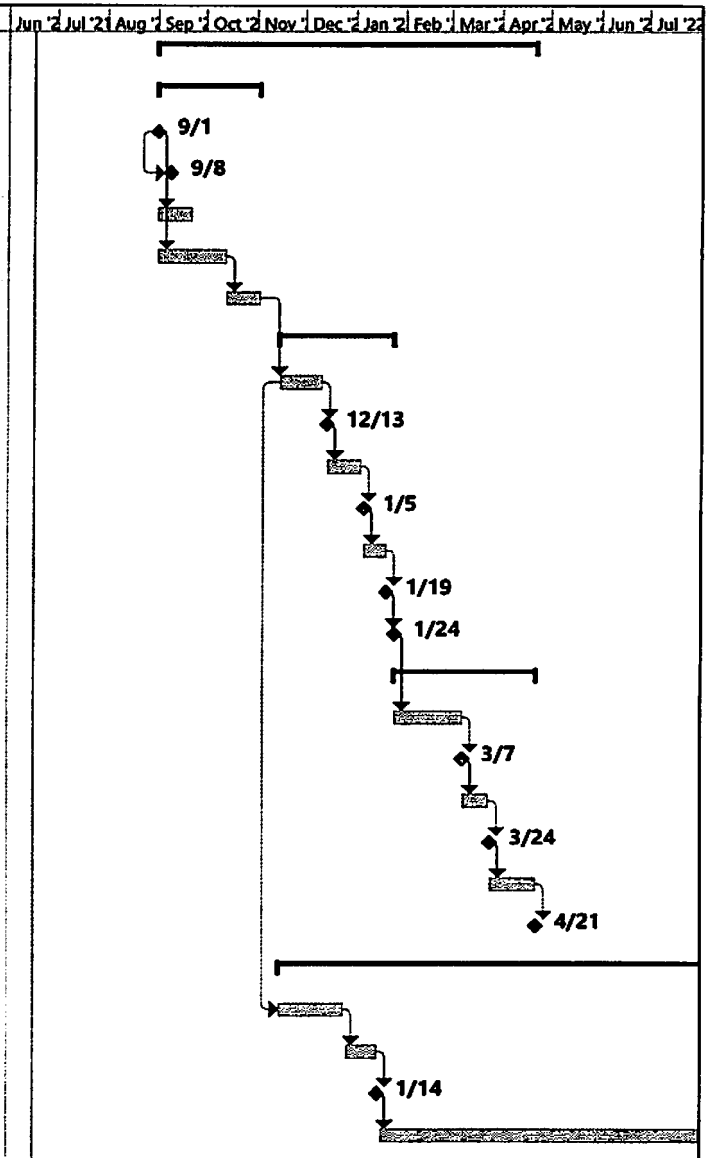
TASK DESCRIPTION		SUBTOTAL	Senior Project Manager $ 199.00	Project Manager $ 175.00	Professional $ 135.00	Analyst/ Designer $ 111.00	Admin $ 90.00
	$	-					
TASK 6 - BASIS OF DESIGN MEMO	**$**	**6,675.00**	**-**	**15**	**30**	**-**	**-**
Preliminary Basis of Design Memo	$	4,450.00		10	20		
Final Basis of Design Memo	$	2,225.00		5	10		
TASK 7 - COST ESTIMATE	**$**	**4,238.00**	**-**	**5**	**6**	**23**	**-**
Preliminary Intersection Alternatives Cost Estimate	$	1,730.00		2	2	10	
Final Intersection Alternatives Cost Estimate	$	1,000.00		1	2	5	
Draft Preliminary Plans Cost Estimate	$	754.00		1	1	4	
Final Preliminary Plans Cost Estimate	$	754.00		1	1	4	
	$	-					
TASK 8 - SUBMITTALS AND QA/QC	**$**	**7,460.00**	**16**	**4**	**8**	**16**	**8**
Submittal Preparation	$	1,608.00				8	8
Summary of Comments	$	2,668.00		4	8	8	
QA/QC	$	3,184.00	16				
	$	-					
TASK 9 - RIGHT-OF-WAY AND EASEMENTS	**$**	**1,824.00**	**-**	**-**	**2**	**14**	**-**
Define Right-of-Way Limits	$	936.00			2	6	
Review Legal Descriptions & Exhibits	$	888.00				8	
	$	-					
SUBTOTAL DIRECT LABOR	**$**	**89,393.00**	**32**	**108**	**211**	**300**	**26**
DIRECT EXPENSES							
EXPENSES	**$**	**720.00**					
Vehicular Mileage (4 meetings, 1 site visit @ 104 miles/visit @ $0.50/mile)	$	520.00					
Hard Copy Deliveries (4 submittals @ $50/delivery)	$	200.00					
DESIGN ALLOWANCES							
TASK 10 - SYMMETRICAL INTERIM INTERSECTION ALTERNATIVE	**$**	**6,708.00**	**2**	**7**	**13**	**30**	**-**
Develop Symmetrical Alternative Footprint and Roll Plot	$	3,954.00	2	4	8	16	
Updating Intersection Alternative per City Comments	$	1,889.00		2	4	9	
Cost Estimate	$	865.00		1	1	5	
	$	-					
SUBTOTAL DESIGN ALLOWANCES	**$**	**6,708.00**	**2**	**7**	**13**	**30**	**0**

Detail of Consultant's Compensation
City of Buckeye
Watson Road and Broadway Road
Intersection Improvements Preliminary Design - Revision 1

TASK DESCRIPTION	SUBTOTAL	Senior Project Manager	Project Manager	Professional	Analyst/ Designer	Admin
		$ 199.00	$ 175.00	$ 135.00	$ 111.00	$ 90.00
SUBCONSULTANT ALLOWANCES						
TASK 11 - SURVEY, RIGHT-OF-WAY, AND EASEMENTS	**$ 33,087.20**					
AZTEC Engineering - See Appendix B	$ 33,087.20					
SUBTOTAL SUBCONSULTANT ALLOWANCES	**$ 33,087.20**					
TOTAL CONTRACT FEE - NOT TO EXCEED	**$ 129,908.20**					

APPENDIX B
DESIGN SCHEDULE

ID	Task	Task Name	Duration	Start	Finish
1		**Preliminary Design**	**167 days**	**Wed 9/1/21**	**Thu 4/21/22**
2		**Project Startup**	**45 days**	**Wed 9/1/21**	**Tue 11/2/21**
3		Notice to Proceed	0 days	Wed 9/1/21	Wed 9/1/21
4		Project Kickoff Meeting	0 days	Wed 9/8/21	Wed 9/8/21
5		Data Collection	3 wks	Wed 9/1/21	Tue 9/21/21
6		Topo Survey	6 wks	Wed 9/1/21	Tue 10/12/21
7		Develop Base Maps	3 wks	Wed 10/13/21	Tue 11/2/21
8		**Preliminary Layout**	**51 days**	**Mon 11/15/21**	**Mon 1/24/22**
9		Develop Preliminary Layouts	4 wks	Mon 11/15/21	Fri 12/10/21
10		Preliminary Layout Roll Plot Submittal	0 days	Mon 12/13/21	Mon 12/13/21
11		City Review of Preliminary Layout	15 days	Tue 12/14/21	Mon 1/3/22
12		Preliminary Layout Review Meeting	0 days	Wed 1/5/22	Wed 1/5/22
13		Refine Preliminary Layouts	2 wks	Thu 1/6/22	Wed 1/19/22
14		Final Preliminary Layout Roll Plot Submittal	0 days	Wed 1/19/22	Wed 1/19/22
15		City Approval of Preliminary Layout	0 days	Mon 1/24/22	Mon 1/24/22
16		**Basis of Design Report & Preliminary Plans**	**63 days**	**Tue 1/25/22**	**Thu 4/21/22**
17		Develop Preliminary Plans & Draft DCR	6 wks	Tue 1/25/22	Mon 3/7/22
18		Preliminary Plans & Draft DCR Submittal	0 days	Mon 3/7/22	Mon 3/7/22
19		City Review of Preliminary Plans & Draft DCR	12 days	Tue 3/8/22	Wed 3/23/22
20		Preliminary Plans & Draft DCR Review Meeting	0 days	Thu 3/24/22	Thu 3/24/22
21		Develop Final DCR and 15% Plans	4 wks	Fri 3/25/22	Thu 4/21/22
22		Submit Final DCR and 15% Plans	0 days	Thu 4/21/22	Thu 4/21/22
23		**Right-of-Way**	**225 days**	**Mon 11/15/21**	**Fri 9/23/22**
24		Develop R/W and Easement Needs	6 wks	Mon 11/15/21	Fri 12/24/21
25		Develop Legal Descriptions & Exhibits	3 wks	Mon 12/27/21	Fri 1/14/22
26		Submit Legal Descriptions & Exhibits	0 days	Fri 1/14/22	Fri 1/14/22
27		Right-of-Way Acquisition	9 mons	Mon 1/17/22	Fri 9/23/22



Watson & Broadway Preliminar
Date: Thu 6/17/21

Task	Inactive Task	Manual Summary Rollup	External Milestone
Split	Inactive Milestone	Manual Summary	Deadline
Milestone	Inactive Summary	Start-only	Progress
Summary	Manual Task	Finish-only	Manual Progress
Project Summary	Duration-only	External Tasks	

Page 1

APPENDIX C
AZTEC Engineering
Survey & Right-of-Way
Scope of Services

AZTEC Engineering Group, Inc.
501 N 44th Street, Suite 300
Phoenix, AZ 85008
P: 602.454.0402 | F: 602.454.0403
www.aztec.us

KIMLEY-HORN
Broadway Rd. and Watson Rd.
Topographic Survey

COST PROPOSAL ASSUMPTIONS

Aztec Engineering Group, Inc. (AZTEC) is submitting this proposal to provide a Topographic Survey and Legal Descriptions for the intersection of Watson Rd. and Broadway Rd. in Buckeye, Arizona. This proposal is based on a phone conversation Chris Woolery 5/16/2021.

AZTEC's proposed fee is based on the following assumptions:

1. AZTEC will establish a minimum of four control points within the project to be used for the survey. The survey control will be based on the City of Buckeye datum which is NAD83 horizontal and NAVD 88 vertical.
2. AZTEC will perform a topographic survey of Watson Rd. and Broadway Rd. The survey will extend 1,320 feet in each direction and cross sections will be taken at 50' intervals and extend to 100 feet from the existing centerline. The topo survey will include but not be limited to ground shots, all breaklines, fences, and visible utilities. Invert elevations for sewer and storm drain manholes and top of nut elevations for water valves will be included.
3. AZTEC will survey the Section Corner monuments necessary to provide legal descriptions and exhibits for new R/W, TCE's, drainage easements and irrigation easements.
4. AZTEC will set panel points and use the services of Kenney Aerial Mapping to provide a rectified Ortho photo of the project.
5. AZTEC will prepare a base map in AutoCAD format showing all data obtained during the survey. Final deliverables will include a Civil 3D drawing with surface, an ascii file of the points surveyed, and a copy of the field notes.
6. AZTEC will use the services of Fidelity National Title Company to provide a Condition of Title Report for the affected parcels.
7. AZTEC will provide a total of 12 legal descriptions and exhibits for new right of way, temporary construction easements, drainage easements and irrigation easements.

The cost for the above described tasks will be performed on a time and materials basis, with a not to exceed cost of $33,087.20 as shown in the attached Derivation of Cost proposal. We appreciate the opportunity to submit this proposal and look forward to working with you on the project.

AZTEC,

Chad W. Huber, R.L.S.
Survey Division Leader

AZTEC ENGINEERING
Watson and Broadway
Kimley-Horn
June 15, 2021

DERIVATION OF COST PROPOSAL
SUMMARY
(Round Figures to the nearest $1)

ESTIMATED DIRECT LABOR Classification	Estimated Hours	Average Hourly Rate	Labor Costs
Project Principal	0	$221.14	0.00
Survey Division Leader	10	$194.37	1,943.70
Survey Project Manager	2	$119.13	238.26
R/W Project Manager	0	$127.50	0.00
Survey Crew - 2 Person	82	$209.14	17,149.48
Technican / CADD	76	$111.26	8,455.76
CA PLS	0	$188.10	0.00
Uility Locator	0	$159.00	0.00
Total Estimated Labor:	170		27,787.20

OTHER DIRECT COSTS

(Listed by Item at Estimated Actual Cost - NO MARKUP)

Mileage	0 miles @	$0.580	per mile =	0.00	
Subsistence	0 days @	$55.00	per day =	0.00	
Lodging	0 days @	$129.00	per day =	0.00	
Title Reports	6 parcels @	$550.00	per parcel =	3,300.00	
Kenney		$2,000.00	@ cost =	2,000.00	
Survey Supplies	Lath, Stakes, etc.		@ cost =	0.00	
GPS	days @	$500.00	per day =	0.00	
	Total Estimated Other Direct Costs:				5,300.00
			TOTAL FEE		33,087.20

Chad W. Huber
Survey Division Leader

6/17/2021
Date

AZTEC ENGINEERING
Watson and Broadway
Kimley-Horn
June 15, 2021

DERIVATION OF COST PROPOSAL

	TASK DESCRIPTION	Project Principal	Survey Division Leader	Survey Project Manager	R/W Project Manager	Survey Crew - 2 Person	Technican / CADD	CA PLS	Utility Locator	Total Hours	Total Cost
		$221.14	$194.37	$119.13	$127.50	$209.14	$111.26	$188.10	$159.00		
1	Control / Monuments					10				10	2,091
2	Topographic Survey			2		72				74	15,296
3	Basemap						16			16	1,780
4	Legals and Exhibits		10				60			70	8,619
5										-	0
6										-	0
7										-	0
8										-	0
	TOTAL	-	10	2	-	82	76	-	-	170	27,787

TO #15, Watson Rd. & Broadway Rd. - Kimley-Horn

Final Audit Report 2021-06-30

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By:	Purchasing Buckeye (purchasing@buckeyeaz.gov)
Status:	Signed
Transaction ID:	CBJCHBCAABAAmUkPYwWGKYkyeEYRnlt6ZDj7F82W6j1I

"TO #15, Watson Rd. & Broadway Rd. - Kimley-Horn" History

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2021-06-29 - 11:08:33 PM GMT

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Agreement completed.
2021-06-30 - 4:15:11 PM GMT


S WATSON RD
S WATSON RD
S WATSON RD
W BROADWAY RD
W BROADWAY RD
WAY RD
8.47'
212'

CHANGE ORDER #4

CITY OF BUCKEYE
ON-CALL CONTRACT #2016-020-032
CONTRACT EXTENSION

THIS CONTRACT, made and entered into on the 7th day of March, 2017, by and between the City of Buckeye, an Arizona municipal corporation (the "City"), and Kimley-Horn, Inc., an Arizona corporation, hereafter called (the "Consultant").

3.2 TERM OF CONTRACT
In accordance with "Section 3," "General Terms and Conditions" of the Contract. The contract term is being extended for an additional year commencing on March 7, 2021 through March 6, 2022. The original contract execution date was March 07, 2017 and the year and day have been updated to reflect the change accordingly.

All other terms and conditions of the original contract remain in full force and effect.

IN WITNESS WHEREOF, the City of Buckeye by its Manager of Construction and Contracting has hereunto subscribed his name.

CITY OF BUCKEYE:

CA Williams
_____
Christopher A. Williams
Manager, Construction and Contracting

CONTRACTOR:
KIMLEY-HORN AND ASSOCIATES, INC.

_____
Title: Vice President/Senior Marketing Specialist

CO 4 Kimley Horn

Final Audit Report 2021-02-17

Created:	2021-02-17
By:	Purchasing Buckeye (purchasing@buckeyeaz.gov)
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Agreement completed.
2021-02-17 - 5:39:39 PM GMT

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.H. **Farallon Water Campus No. 16 Design**
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 1
STAFF LIAISON: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225	
DEPARTMENT: Construction and Contracting	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on the Design Services Contract (No. 2021021) between the City of Buckeye, an Arizona municipal corporation, and Hazen and Sawyer, a New York corporation, for services required to complete the design of Farallon Water Campus No. 16; and authorizing the Mayor to execute and deliver said Contract on behalf of the City.

RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

ADDITIONAL RELEVANT GOALS:
GOAL 3: A Well-Planned Urban Community

SUMMARY

PROJECT DESCRIPTION:
The design of Farallon Water Campus No. 16 is part of the Capital Improvement Program. This will be a regional water campus intended to serve an area of approximately 4.912 acres, including residential, industrial and commercial land use. It is anticipated at build-outa total maximum day water demand for Farallon Water Campus No. 16 will be approximately 18.93 MGD. A Master Plan was created by Hilgart Wilson and completed in November 2020. The Construction and Contract Division issued a Request for Qualification (RFQ) for the design of the Water Campus on November 10, 2020 and a Pre-Submittal Conference was held on November 19, 2020. Statement of Qualifications (SOQs) were due on January 21, 2021 and six firms submitted their SOQs as follows:

Carollo Engineering
Hazen and Sawyer
HDR Engineers, Inc.
NCR Engineerings
Stantech
Wood Environmental & Infrastructure Solutions, Inc.

An Evaluation Committee reviewed the SOQs based on the criteria set forth in RFQ. It was determined by the Evaluation Committee that Hazen and Sawyer is the best suited to do the design of Farallon Water Campus No. 16. The entire contract with exhibits is on file in the Office of the City Clerk.

BENEFITS:
The existing Farallon well cannot be run currently due to water quality and will need to be replaced along with the along with the additional of future wells. The developments in the form Global area west of Miller are not included in the Jackie A. Meck Water Campus service area. As development comes in, this facility will be designated to provide for this area to keep the City with in our 2000 acre provide.

FUTURE ACTION:
Construction of the Water Campus.

FINANCIAL IMPACT STATEMENT:
Cost of this contract is $6,720.682.00. HD Horton through the approved Development Agreement funds a portion of the total design.

CURRENT FISCAL YEAR TOTAL COST:
$2,600,00.00

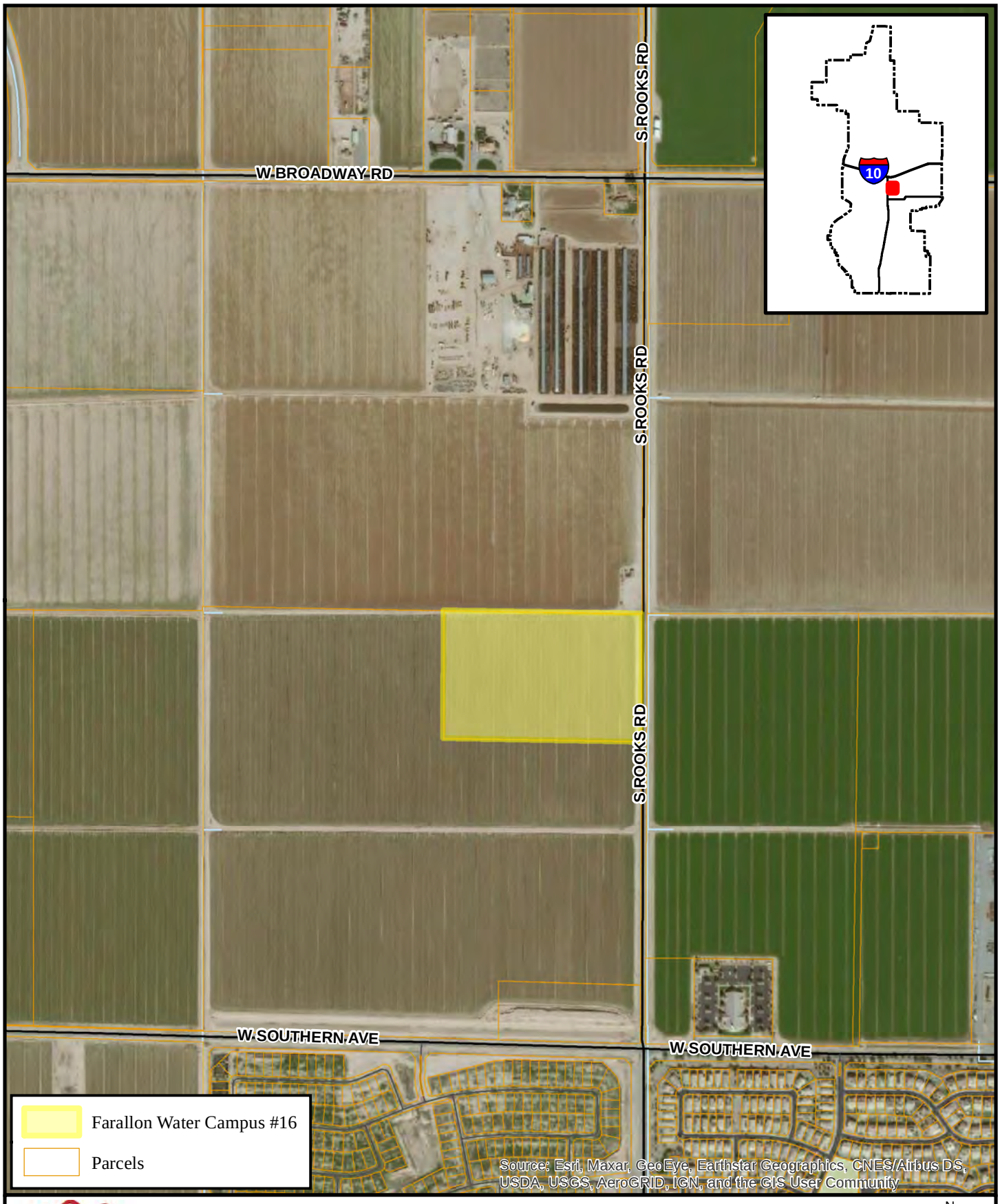
FY 2021-22 approved budget is $16,127,913.

BUDGETED:
Yes

FISCAL YEAR:
2022

FUND/DEPARTMENT:
40001113-543045

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
FarallonWaterCampus16_8x11.pdf
Hazen and Sawyer Contract No. 2021021.pdf



BUCKEYE, AZ

While every effort has been made to ensure the accuracy of this information, the City of Buckeye makes no warranty, expressed or implied, as to its absolute accuracy and expressly disclaims liability for the accuracy thereof.

Farallon Water Campus #16

0 500 1,000 2,000 Feet

N

Date: 7/7/2021

Document Name: FarallonWaterCampus16_8x11

PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF BUCKEYE
AND
HAZEN AND SAWYER

CONTRACT# 2021021

THIS PROFESSIONAL SERVICES AGREEMENT (this "Agreement") is entered into by and between the City of Buckeye, an Arizona municipal corporation (the "City") and Hazen and Sawyer, a(n) New York corporation (the "Consultant").

RECITALS

A. The City issued a Request for Qualifications entitled "Farallon Water Campus (RFQ No. 2021021)" (the "RFQ"), attached hereto as Exhibit A and incorporated herein by reference, seeking Statements of Qualifications from firms interested in providing professional water campus design services.

B. The Consultant submitted a Statement of Qualifications and subsequent proposal in response to the RFQ (the "Proposal"), attached hereto as Exhibit B and incorporated herein by reference, and the City desires to enter into an Agreement with the Consultant for the Consultant to provide design services for Farallon Water Campus No. 16 (the "Services").

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing recitals, which are incorporated herein by reference, the following mutual covenants and conditions, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the City and the Consultant hereby agree as follows:

1. Term of Agreement. The Consultant shall commence work immediately upon issuance of a Notice to Proceed and complete the services and deliverables within **Nine Hundred Sixty Five (965) calendar days** from Notice to Proceed unless terminated as otherwise provided pursuant to the terms and conditions of this Contract.

2. Scope of Work. The Consultant shall provide the Services as set forth in the Scope of Work, attached hereto as Exhibit C and incorporated herein by reference.

3. Compensation. The City shall pay Consultant in the amounts not to exceed **Six Million, Seven Hundred Twenty Thousand, Six Hundred Eighty-Two Dollars, and Zero Cents ($6,720,682.00)** at the rates as set forth in the Scope of Work, attached hereto as Exhibit C and incorporated herein by reference.

4. Payments. The City shall pay the Consultant monthly, based upon work performed and completed to date, and upon submission and approval of invoices. All invoices

shall document and itemize all work completed to date. The invoice statement shall include a record of time expended and work performed in sufficient detail to justify payment.

5. Documents. All documents prepared and submitted to the City pursuant to this Agreement shall be the property of the City.

6. Consultant Personnel. The Consultant shall provide adequate, experienced personnel, capable of and devoted to the successful completion of the Services to be performed under this Agreement. The Consultant agrees to assign specific individuals to key positions. The Consultant agrees that, upon commencement of the Services to be performed under this Agreement, key personnel shall not be removed or replaced without prior written notice to the City. If key personnel are not available to perform the Services for a continuous period exceeding 30 calendar days, or are expected to devote substantially less effort to the Services than initially anticipated, The Consultant shall immediately notify the City of same and shall, subject to the concurrence of the City, replace such personnel with personnel of substantially equal ability and qualifications.

7. Inspection; Acceptance. All work shall be subject to inspection and acceptance by the City at reasonable times during the Consultant's performance. The Consultant shall provide and maintain a self-inspection system that is acceptable to the City.

8. Licenses; Materials. The Consultant shall maintain in current status all federal, state and local licenses and permits required for the operation of the business conducted by the Consultant. The City has no obligation to provide the Consultant, its employees or subcontractors any business registrations or licenses required to perform the specific services set forth in this Agreement. The City has no obligation to provide tools, equipment or material to the Consultant.

9. Performance Warranty. The Consultant warrants that the Services rendered will conform to the requirements of this Agreement and to the highest professional standards in the field.

10. Indemnification. To the fullest extent permitted by law, the Consultant shall indemnify, defend and hold harmless the City and each council member, officer, employee or agent thereof (the City and any such person being herein called an "Indemnified Party"), for, from and against any and all losses, claims, damages, liabilities, costs and expenses (including, but not limited to, reasonable attorneys' fees, court costs and the costs of appellate proceedings) to which any such Indemnified Party may become subject, under any theory of liability whatsoever ("Claims"), insofar as such Claims (or actions in respect thereof) relate to, arise out of, or are caused by or based upon the negligent acts, intentional misconduct, errors, mistakes or omissions, in connection with the work or services of the Consultant, its officers, employees, agents, or any tier of subcontractor in the performance of this Agreement. The amount and type of insurance coverage requirements set forth below will in no way be construed as limiting the scope of the indemnity in this Section.

11. Insurance.

11.1 General.

A. Insurer Qualifications. Without limiting any obligations or liabilities of the Consultant, the Consultant shall purchase and maintain, at its own expense, hereinafter stipulated minimum insurance with insurance companies duly licensed by the State of Arizona with an AM Best, Inc. rating of A- or above with policies and forms satisfactory to the City. Failure to maintain insurance as specified herein may result in termination of this Agreement at the City's option.

B. No Representation of Coverage Adequacy. By requiring insurance herein, the City does not represent that coverage and limits will be adequate to protect the Consultant. The City reserves the right to review any and all of the insurance policies and/or endorsements cited in this Agreement but has no obligation to do so. Failure to demand such evidence of full compliance with the insurance requirements set forth in this Agreement or failure to identify any insurance deficiency shall not relieve the Consultant from, nor be construed or deemed a waiver of, its obligation to maintain the required insurance at all times during the performance of this Agreement.

C. Additional Insured. All insurance coverage and self-insured retention or deductible portions, except Workers' Compensation insurance and Professional Liability insurance, if applicable, shall name, to the fullest extent permitted by law for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, directors, officials and employees as Additional Insured as specified under the respective coverage Parts of this Agreement.

D. Coverage Term. All insurance required herein shall be maintained in full force and effect until all work or services required to be performed under the terms of this Agreement are satisfactorily performed, completed and formally accepted by the City, unless specified otherwise in this Agreement.

E. Primary Insurance. The Consultant's insurance shall be primary insurance with respect to performance of this Agreement and in the protection of the City as an Additional Insured.

F. Waiver. All policies, except for Professional Liability, including Workers' Compensation insurance, shall contain a waiver of rights of recovery (subrogation) against the City, its agents, representatives, officials, officers and employees for any claims arising out of the work or services of the Consultant. The Consultant shall arrange to have such subrogation waivers incorporated into each policy via formal written endorsement thereto.

G. Policy Deductibles and/or Self-Insured Retentions. The policies set forth in these requirements may provide coverage that contains deductibles or self-insured retention amounts. Such deductibles or self-insured retention shall not be applicable with

respect to the policy limits provided to the City. The Consultant shall be solely responsible for any such deductible or self-insured retention amount.

H. Use of Subcontractors. If any work under this Agreement is subcontracted in any way, the Consultant shall execute written agreements with its subcontractors containing the indemnification provisions set forth in this Section and insurance requirements set forth herein protecting the City and the Consultant. The Consultant shall be responsible for executing any agreements with its subcontractors and obtaining certificates of insurance verifying the insurance requirements.

I. Evidence of Insurance. Prior to commencing any work or services under this Agreement, the Consultant will provide the City with suitable evidence of insurance in the form of certificates of insurance and a copy of the declaration page(s) of the insurance policies as required by this Agreement, issued by the Consultant's insurance insurer(s) as evidence that policies are placed with acceptable insurers as specified herein and provide the required coverages, conditions and limits of coverage specified in this Agreement and that such coverage and provisions are in full force and effect. Confidential information such as the policy premium may be redacted from the declaration page(s) of each insurance policy, provided that such redactions do not alter any of the information required by this Agreement. The City shall reasonably rely upon the certificates of insurance and declaration page(s) of the insurance policies as evidence of coverage but such acceptance and reliance shall not waive or alter in any way the insurance requirements or obligations of this Agreement. In the event any insurance policy required by this Agreement is written on a "claims made" basis, coverage shall extend for two years past completion of the Services and the City's acceptance of the Consultant's work or services and as evidenced by annual certificates of insurance. If any of the policies required by this Agreement expire during the life of this Agreement, it shall be the Consultant's responsibility to forward renewal certificates and declaration page(s) to the City 30 days prior to the expiration date. All certificates of insurance and declarations required by this Agreement shall be identified by referencing the Contract number and title of this Agreement. A $25.00 administrative fee shall be assessed for all certificates or declarations received without the appropriate Contract number and title or a reference to this Agreement, as applicable. Additionally, certificates of insurance and declaration page(s) of the insurance policies submitted without referencing the appropriate Contract number and title or reference to this Agreement, as applicable, will be subject to rejection and may be returned or discarded. Certificates of insurance and declaration page(s) shall specifically include the following provisions:

(1) The City, its agents, representatives, officers, directors, officials and employees are Additional Insureds as follows:

(a) Commercial General Liability - Under Insurance Services Office, Inc., ("ISO") Form CG 20 10 03 97 or equivalent.

(b) Auto Liability - Under ISO Form CA 20 48 or equivalent.

(c) Excess Liability - Follow Form to underlying insurance.

(2) The Consultant's insurance shall be primary insurance as respects performance of the Agreement.

(3) All policies, except for Professional Liability, including Workers' Compensation, waive rights of recovery (subrogation) against the City, its agents, representatives, officers, officials and employees for any claims arising out of work or services performed by the Consultant under this Agreement.

(4) A 30-day advance notice cancellation provision. If ACORD certificate of insurance form is used, the phrases in the cancellation provision "endeavor to" and "but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives" shall be deleted. Certificate forms other than ACORD form shall have similar restrictive language deleted.

11.2 Required Insurance Coverage.

A. Commercial General Liability. The Consultant shall maintain "occurrence" form Commercial General Liability insurance with an unimpaired limit of not less than $1,000,000 for each occurrence, $2,000,000 Products and Completed Operations Annual Aggregate and a $2,000,000 General Aggregate Limit. The policy shall cover liability arising from premises, operations, independent consultants, products-completed operations, personal injury and advertising injury. Coverage under the policy will be at least as broad as ISO policy form CG 00 010 93 or equivalent thereof, including but not limited to, separation of insured's clause. To the fullest extent allowed by law, for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, officials and employees shall be cited as an Additional Insured under ISO, Commercial General Liability Additional Insured Endorsement form CG 20 10 03 97, or equivalent, which shall read "Who is an Insured (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of "your work" for that insured by or for you." If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.

B. Vehicle Liability. The Consultant shall maintain Business Automobile Liability insurance with a limit of $1,000,000 each occurrence on the Consultant's owned, hired and non-owned vehicles assigned to or used in the performance of the Consultant's work or services under this Agreement. Coverage will be at least as broad as ISO coverage code "1" "any auto" policy form CA 00 01 12 93 or equivalent thereof. To the fullest extent allowed by law, for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, directors, officials and employees shall be cited as an Additional Insured under ISO Business Auto policy Designated Insured Endorsement form CA 20 48 or equivalent. If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.

C. Professional Liability. If this Agreement is the subject of any professional services or work, or if the Consultant engages in any professional services or work adjunct or residual to performing the work under this Agreement, the Consultant shall maintain Professional Liability insurance covering negligent errors and omissions arising out of the Services performed by the Consultant, or anyone employed by the Consultant, or anyone for whose negligent acts, mistakes, errors and omissions the Consultant is legally liable, with an unimpaired liability insurance limit of $2,000,000 each claim and $2,000,000 annual aggregate. In the event the Professional Liability insurance policy is written on a "claims made" basis, coverage shall extend for two years past completion and acceptance of the Services, and the Consultant shall be required to submit certificates of insurance and a copy of the declaration page(s) of the insurance policies evidencing proper coverage is in effect as required above.

D. Workers' Compensation Insurance. The Consultant shall maintain Workers' Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction over the Consultant's employees engaged in the performance of work or services under this Agreement and shall also maintain Employers Liability Insurance of not less than $500,000 for each accident, $500,000 disease for each employee and $1,000,000 disease policy limit.

11.3 Cancellation and Expiration Notice. Insurance required herein shall not expire, be canceled, or materially change without 30 days' prior written notice to the City.

12. Applicable Law; Venue. In the performance of this Agreement, the Consultant shall abide by and conform to any and all laws of the United States, State of Arizona and the City of Buckeye, including but not limited to, federal and state executive orders providing for equal employment and procurement opportunities, the Federal Occupational Safety and Health Act and any other federal or state laws applicable to this Agreement. This Agreement shall be governed by the laws of the State of Arizona and suit pertaining to this Agreement may be brought only in courts in the State of Arizona.

13. Termination; Cancellation.

13.1 For City's Convenience. This Agreement is for the convenience of the City and, as such, may be terminated without cause after receipt by the Consultant of written notice by the City. Upon termination for convenience, the Consultant shall be paid for all undisputed services performed to the termination date.

13.2 For Cause. This Agreement may be terminated by either party upon 30 days' written notice should the other party fail to substantially perform in accordance with this Agreement's terms, through no fault of the party initiating the termination.

13.3 Due to Work Stoppage. This Agreement may be terminated by the City upon 30 days' written notice to the Consultant in the event that the Services are permanently abandoned. In the event of such termination due to work stoppage, payment shall be made by the City to the Consultant for the undisputed portion of its fee due as of the termination date.

13.4 Conflict of Interest. This Agreement is subject to the provisions of ARIZ. REV. STAT. § 38-511. The City may cancel this Agreement without penalty or further obligations by the City or any of its departments or agencies if any person significantly involved in initiating, negotiating, securing, drafting or creating this Agreement on behalf of the City or any of its departments or agencies is, at any time while the Agreement or any extension of the Agreement is in effect, an employee of any other party to the Agreement in any capacity or a consultant to any other party of the Agreement with respect to the subject matter of the Agreement.

13.5 Gratuities. The City may, by written notice to the Consultant, cancel this Agreement if it is found by the City that gratuities, in the form of economic opportunity, future employment, entertainment, gifts or otherwise, were offered or given by the Consultant or any agent or representative of the Consultant to any officer, agent or employee of the City for the purpose of securing this Agreement. In the event this Agreement is cancelled by the City pursuant to this provision, the City shall be entitled, in addition to any other rights and remedies, to recover or withhold from the Consultant an amount equal to 150% of the gratuity.

13.6 Agreement Subject to Appropriation. The provisions of this Agreement for payment of funds by the City shall be effective when funds are appropriated for purposes of this Agreement and are actually available for payment. The City shall be the sole judge and authority in determining the availability of funds under this Agreement and the City shall keep the Consultant fully informed as to the availability of funds for the Agreement. The obligation of the City to make any payment pursuant to this Agreement is a current expense of the City, payable exclusively from such annual appropriations, and is not a general obligation or indebtedness of the City. If the City Council fails to appropriate money sufficient to pay the amounts as set forth in this Agreement during any immediately succeeding fiscal year, this Agreement shall terminate at the end of then-current fiscal year and the City and the Consultant shall relieved of any subsequent obligation under this Agreement. The City agrees to give written notice of termination to the Consultant at least thirty (30) days prior to any termination for a lack of funds and will pay to the Consultant all approved changes incurred prior to Consultant's recipt of such notice and for charges incurred to properly close the operations with the thirty (30) day close out period, subject to the availability of funds therefore.

14. Miscellaneous.

14.1 Independent Contractor. The Consultant acknowledges and agrees that the Services provided under this Agreement are being provided as an independent contractor, not as an employee or agent of the City. The Consultant, its employees and subcontractors are not entitled to workers' compensation benefits from the City. The City does not have the authority to supervise or control the actual work of the Consultant, its employees or subcontractors. The Consultant, and not the City, shall determine the time of its performance of the services provided under this Agreement so long as the Consultant meets the requirements of its agreed Scope of Work as set forth in Section 2 above. The Consultant is neither prohibited from entering into other contracts nor prohibited from practicing its profession elsewhere. The City and the Consultant do not intend to nor will they combine business operations under this Agreement.

14.2 Laws and Regulations. The Consultant shall keep fully informed and shall at all times during the performance of its duties under this Agreement ensure that it and any person for whom the Consultant is responsible remains in compliance with all rules, regulations, ordinances, statutes or laws affecting the Services, including the following: (A) existing and future City and County ordinances and regulations, (B) existing and future state and federal laws and (C) existing and future Occupational Safety and Health Administration ("OSHA") standards.

14.3 Amendments. This Agreement may be modified only by a written amendment signed by persons duly authorized to enter into contracts on behalf of the City and the Consultant.

14.4 Provisions Required by Law. Each and every provision of law and any clause required by law to be in the Agreement will be read and enforced as though it were included herein and, if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, the Agreement will promptly be physically amended to make such insertion or correction.

14.5 Severability. The provisions of this Agreement are severable to the extent that any provision or application held to be invalid by a Court of competent jurisdiction shall not affect any other provision or application of the Agreement which may remain in effect without the invalid provision or application.

14.6 Relationship of the Parties. It is clearly understood that each party will act in its individual capacity and not as an agent, employee, partner, joint venturer, or associate of the other. An employee or agent of one party shall not be deemed or construed to be the employee or agent of the other for any purpose whatsoever. The Consultant is advised that taxes or Social Security payments will not be withheld from any City payments issued hereunder and the Consultant agrees to be fully and solely responsible for the payment of such taxes or any other tax applicable to this Agreement.

14.7 Entire Agreement; Interpretation; Parol Evidence. This Agreement represents the entire agreement of the parties with respect to its subject matter, and all previous agreements, whether oral or written, entered into prior to this Agreement are hereby revoked and superseded by this Agreement. No representations, warranties, inducements or oral agreements have been made by any of the parties except as expressly set forth herein, or in any other contemporaneous written agreement executed for the purposes of carrying out the provisions of this Agreement. This Agreement shall be construed and interpreted according to its plain meaning, and no presumption shall be deemed to apply in favor of, or against the party drafting the Agreement. The parties acknowledge and agree that each has had the opportunity to seek and utilize legal counsel in the drafting of, review of, and entry into this Agreement.

14.8 Assignment. No right or interest in this Agreement shall be assigned by the Consultant without prior, written permission of the City signed by the City Manager and no delegation of any duty of the Consultant shall be made without prior, written permission of the City signed by the City Manager. Any attempted assignment or delegation by the Consultant in violation of this provision shall be a breach of this Agreement by the Consultant.

14.9 Subcontracts. No subcontract shall be entered into by the Consultant with any other party to furnish any of the material or services specified herein without the prior written approval of the City. The Consultant is responsible for performance under this Agreement whether or not subcontractors are used.

14.10 Rights and Remedies. No provision in this Agreement shall be construed, expressly or by implication, as waiver by the City of any existing or future right and/or remedy available by law in the event of any claim of default or breach of this Agreement. The failure of the City to insist upon the strict performance of any term or condition of this Agreement or to exercise or delay the exercise of any right or remedy provided in this Agreement, or by law, or the City's acceptance of and payment for services, shall not release the Consultant from any responsibilities or obligations imposed by this Agreement or by law, and shall not be deemed a waiver of any right of the City to insist upon the strict performance of this Agreement.

14.11 Attorneys' Fees. In the event either party brings any action for any relief, declaratory or otherwise, arising out of this Agreement or on account of any breach or default hereof, the prevailing party shall be entitled to receive from the other party reasonable attorneys' fees and reasonable costs and expenses, determined by the court sitting without a jury, which shall be deemed to have accrued on the commencement of such action and shall be enforced whether or not such action is prosecuted through judgment.

14.12 Liens. All materials or services shall be free of all liens and, if the City requests, a formal release of all liens shall be delivered to the City.

14.13 E-Verify Requirements. To the extent applicable under ARIZ. REV. STAT. §41-4401, the Vendor and its subcontractors warrant compliance with all federal immigration laws and regulations that relate to their employees and compliance with the E-verify requirements under ARIZ. REV. STAT. §23-214(A). The Vendor's or its subcontractor's failure to comply with such warranty shall be deemed a material breach of this Agreement and may result in the termination of this Agreement by the City.

14.14 Offset.

A. Offset for Damages. In addition to all other remedies at law or equity, the City may offset from any money due to the Consultant any amounts the Consultant owes to the City for damages resulting from breach or deficiencies in performance or breach of any obligation under this Agreement.

B. Offset for Delinquent Fees or Taxes. The City may offset from any money due to the Consultant any amounts the Consultant owes to the City for delinquent fees, transaction privilege taxes and property taxes, including any interest or penalties.

14.15 Notices and Requests. Any notice or other communication required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been duly given if (A) delivered to the party at the address set forth below, (B) deposited in the U.S.

Mail, registered or certified, return receipt requested, to the address set forth below, (C) given to a recognized and reputable overnight delivery service, to the address set forth below or (D) delivered by facsimile transmission to the number set forth below:

If to the City:	CITY OF BUCKEYE 530 East Monroe Avenue Buckeye, Arizona 85326 Facsimile: (623) 349-6098 Attn: Christopher Williams Manager Construction and Contracting
With copy to:	GUST ROSENFELD, P.L.C. One East Washington Street, Suite 1600 Phoenix, Arizona 85004-2553 Facsimile: (602) 254-4878 Attn: Scott W. Ruby, Esq.
If to Consultant:	Hazen and Sawyer 1400 East Southern Avenue, Suite 340 Tempe, Arizona 85282 Attn: Curtis D. Courter, Associate Vice President Email: ccourter@hazenandsawyer.com

or at such other address, and to the attention of such other person or officer, as any party may designate in writing by notice duly given pursuant to this subsection. Notices shall be deemed received (A) when delivered to the party, (B) three business days after being placed in the U.S. Mail, properly addressed, with sufficient postage, (C) the following business day after being given to a recognized overnight delivery service, with the person giving the notice paying all required charges and instructing the delivery service to deliver on the following business day, or (D) when received by facsimile transmission during the normal business hours of the recipient. If a copy of a notice is also given to a party's counsel or other recipient, the provisions above governing the date on which a notice is deemed to have been received by a party shall mean and refer to the date on which the party, and not its counsel or other recipient to which a copy of the notice may be sent, is deemed to have received the notice.

14.16 Confidentiality of Records. The Consultant shall establish and maintain procedures and controls that are acceptable to the City for the purpose of ensuring that information contained in its records or obtained from the City or from others in carrying out its obligations under this Agreement shall not be used or disclosed by it, its agents, officers, or employees, except as required to perform the Consultant's duties under this Agreement. Persons requesting such information should be referred to the City. The Consultant also agrees that any information pertaining to individual persons shall not be divulged other than to employees or officers of the Consultant as needed for the performance of duties under this Agreement.

14.17 Information Technology.

A. Limited Access. If necessary for the fulfillment of the Agreement, the City may provide the Consultant with non-exclusive, limited access to the City's information technology infrastructure. The Consultant understands and agrees to abide by all the City policies, standards, regulations and restrictions regarding access and usage of the City's information technology infrastructure. The Consultant shall enforce all such policies, standards, regulations and restrictions with all the Consultant's employees, agents or any tier of subcontractor granted access in the performance of this Agreement, and shall be granted and authorize only such access as may be necessary for the purpose of fulfilling the requirements of the Agreement.

B. Data Confidentiality. All data, regardless of form, including originals, images and reproductions, prepared by, obtained by or transmitted to the Consultant in connection with this Agreement is confidential, proprietary information owned by the City. Except as specifically provided in this Agreement, the Consultant shall not disclose data generated in the performance of the service to any third person without the prior, written consent of the City Manager or authorized designee.

C. Data Security. Personal identifying information, financial account information, or restricted City information, whether electronic format or hard copy, must be secured and protected at all times to avoid unauthorized access. At a minimum, the Consultant must encrypt and/or password-protect electronic files. This includes data saved to laptop computers, computerized devices or removable storage devices. When personal identifying information, financial account information, or restricted City information, regardless of its format, is no longer necessary, the information must be redacted or destroyed through appropriate and secure methods that ensure the information cannot be viewed, accessed or reconstructed.

E. Compromised Security. In the event that data collected or obtained by the Consultant in connection with this Agreement is believed to have been compromised, the Consultant shall notify the City Manager, or authorized designee, immediately. The Consultant agrees to reimburse the City for any costs incurred by the City to investigate potential breaches of this data and, where applicable, the cost of notifying individuals who may be impacted by the breach.

F. Permitted Access. The Consultant's employees, agents and subcontractors must receive prior, written approval from the City before being granted access to the City's information technology infrastructure and data and the City, in its sole determination, shall determine accessibility and limitations thereto. The Consultant agrees that the requirements of this Section shall be incorporated into all subcontractor/subconsultant agreements entered into by the Consultant. It is further agreed that a violation of this Section shall be deemed to cause irreparable harm that justifies injunctive relief in court. A violation of this Section may result in immediate termination of this Agreement without notice.

G. Survival. The obligations of the Consultant under this Section shall survive the termination of this Agreement.

14.17 Records and Audit Rights. The Consultant's and its subcontractor's books, records, correspondence, accounting procedures and practices, and any other supporting evidence relating to this Agreement, including the papers of any consultant and its subcontractors' employees who perform any work or Services pursuant to this Agreement to ensure that the Consultant and its subcontractors are complying with the warranty under subsection 14.18 below (all the foregoing hereinafter referred to as "Records"), shall be open to inspection and subject to audit and/or reproduction during normal working hours by the City, to the extent necessary to adequately permit (A) evaluation and verification of any invoices, payments or claims based on the Consultant's and its subcontractors' actual costs (including direct and indirect costs and overhead allocations) incurred, or units expended directly in the performance of work under this Agreement and (B) evaluation of the Consultant's and its subcontractors' compliance with the Arizona employer sanctions laws referenced in subsection 14.18 below. To the extent necessary for the City to audit Records as set forth in this subsection, the Consultant and its subcontractors hereby waive any rights to keep such Records confidential. For the purpose of evaluating or verifying such actual or claimed costs or units expended, the City shall have access to said Records, even if located at its subcontractors' facilities, from the effective date of this Agreement for the duration of the work and until three years after the date of final payment by the City to the Consultant pursuant to this Agreement. The Consultant and its subcontractors shall provide the City with adequate and appropriate workspace so that the City can conduct audits in compliance with the provisions of this subsection. The City shall give the Consultant or its subcontractors reasonable advance notice of intended audits. The Consultant shall require its subcontractors to comply with the provisions of this subsection by insertion of the requirements hereof in any subcontract pursuant to this Agreement.

14.19 Conflicting Terms. In the event of any inconsistency, conflict or ambiguity among the terms of the Agreement, the Scope of Work, the Fee Proposal, and the Consultant's Proposal, the documents shall govern in the order listed herein.

14.20 Non-Exclusive Contract. This Agreement is entered into with the understanding and agreement that it is for the sole convenience of the City. The City reserves the right to obtain like goods and services from another source when necessary.

14. 21 Cooperative Purchasing. Specific eligible political subdivisions and nonprofit educational or public health institutions ("Eligible Procurement Unit(s) ") are permitted to utilize procurement agreements developed by the City, at their discretion and with the agreement of the awarded Consultant. Consultant may, at its sole discretion, accept orders from Eligible Procurement Unit(s) for the purchase of the Materials and/or Services at the prices and under the terms and conditions of this Agreement, in such quantities and configurations as may be agreed upon between the parties. All Cooperative procurements under this Agreement shall be transacted solely between the requesting of the Eligible Procurement Unit. The exercise of any rights, responsibilities or remedies by Eligible Procurement Unit shall be the exclusive obligation of such unit. The City assumes no responsibility for payment, performance or any

liability or obligation associated with any cooperative procurement under this Agreement. The City shall not be responsible for any disputes arising out of transactions made by others.

14.22 Israel. Pursuant to Arizona Revised Statute § 35-393.01, Contractor certifies that it is not currently engaged in, And agrees for the duration of the Contract to not engage in, a boycott of Israel, or any entity that does business in Israel or any territories controlled by Israel.

THEREFORE, the City of Buckeye by its Mayor and City Clerk have hereunto subscribed their names _____.

CITY:
THE CITY OF BUCKEYE, ARIZONA
an Arizona Municipal corporation

By: _____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda Aja, City Clerk

RECOMMENDED:

CA Williams
_____
Christopher A. Williams, Manager
Construction & Contracting Division

APPROVED AS TO FORM:

_____
City Attorney

HAZEN AND SAWYER

Curtis D. Courter
_____
Curtis Courter, Associate Vice President

EXHIBIT A
TO
PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF BUCKEYE
AND
HAZEN AND SAWYER

[RFQ]

See following pages.

EXHIBIT B
TO
PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF BUCKEYE
AND
HAZEN AND SAWYER

[Consultant's Proposal]

See following pages.

EXHIBIT C
TO
PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF BUCKEYE
AND
HAZEN AND SAWYER

[Scope of Work
and Schedule]

See following pages.

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.I. Central Wastewater Treatment Plant Upgrades
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 1
STAFF LIAISON: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225	
DEPARTMENT: Construction and Contracting	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council) Council to take action on the Delivery Order No. 8 (Job Order Contract No. 2019012.04) between the City of Buckeye, an Arizona municipal corporation, and PCL Construction, Inc., a Colorado corporation, for labor, materials, equipment and services required to upgrade the Central Wastewater Treatment Plant (WWTP), Train C; and authorizing the Mayor to execute and deliver said Delivery Order on behalf of the City.

RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

ADDITIONAL RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:

As part of last fiscal year's Capital Improvement Program, the Central Wastewater Treatment Plant Phase l upgrades to Train A and B were completed. Approved in FY 21/22 CIP is Phase II rehabilitation of Train C, which includes:

Cleaning and Removal of Sludge from Train C and Clarifier Replacement of Influent Pump #1

Repair Aeration Basin Train C Membrane Diffusers

Replace Train C Stainless Steel Air Piping Header

New Aeration Zones

Anoxic Mixer Replacement

Replacement of IMLR Pump

Excavation and Installation of a New Electrical Ductbank to feed Train C Electrical Power

Purchase and Installation of a New Blowers

Rehabilitation of Clarifier Mechanism

PCL Construction will be completing the work needed for this phase of the rehabilitation and is one of the City's Job Order Contactors for Wastewater Treatment Infrastructure.

BENEFITS:
The Phase ll improvements will bring the Central WWTP up its full permitted capacity of 4.5 MGD.

FUTURE ACTION:
Normal maintenance.

FINANCIAL IMPACT STATEMENT:
This is part of the Capital Improvement Program Budget approved by the City Council.

CURRENT FISCAL YEAR TOTAL COST:
Delivery Order No. 8 is in the amount of $1,995,308.00.

FY2021-22 budget approved by Council equals $2,500,000

BUDGETED:
Yes

FISCAL YEAR:
2021-2022

FUND/DEPARTMENT:
40011113-543116 (CIP2020036)

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
DO #8 Phase II Central WRF.pdf
Map.pdf

JOB ORDER CONTRACT
BETWEEN
CITY OF BUCKEYE
AND
PCL CONSTRUCTION, INC.

DELIVERY ORDER #8
JOC CONTRACT NO. 2019012.04

THIS JOB ORDER CONTRACT AGREEMENT (this "Agreement") is entered into by and between the CITY OF BUCKEYE, an Arizona municipal corporation (the "City") and PCL Construction, Inc., a Colorado corporation (the "Contractor").

RECITALS

In accordance with the Job Order Contract 2019012.04 (the "Contract") between the City and Contractor, dated September 17, 2019, the Contractor will perform the following Scope of Work as detailed in Article 1, subject and pursuant to the terms and conditions of the Job Order Contract.

ARTICLE 1
SCOPE OF WORK

The Contractor will provide materials, labor and equipment for the rehabilitation of Train C at the Central Water Reclamation Facility as further described in Exhibit A.

ARTICLE 2
SCHEDULE OF COMPLETION OF WORK

The Contractor shall commence work upon issuance of this Job Order Contract. The project shall be considered complete when the Scope of Services is completed and approved by the City**.** In view of the difficulty or impossibility of determining the City's damages from delay, should the Contractor fail to achieve Substantial Completion with in **Two Hundred Fifty Days (250)** from the issuance of the Notice to Proceed, as extended by any City approved Change Orders, the Contractor agrees to pay and will pay to City, in addition to all other sums pursuant to the Contract Documents, the sum of **Seven Hundred Ten Dollars and Zero Cents ($710.00)** for each calendar day of delay as liquidated damages for such delay and not as a penalty. This sum may be withheld from the balance of the Contract Price as it becomes due. Should liquidated damages exceed the Contract Price due or to become due, then the Contractor shall pay the City the difference within 3 days of receipt of written demand.

ARTICLE 3
COST OF CONSTRUCTION

The total cost to complete the Scope of Work under this Job Order Contract Delivery Order identified in Article 1 as set forth in Exhibit A, is an amount not to exceed **One Million, Nine Hundred Ninety-Five Thousand, Three Hundred Eight Dollars and Zero Cents ($1,995,308.00)**, Exhibit A.

ARTICLE 4
BONDS AND INSURANCE

In accordance with Article 19 of the Contract, the Contractor agrees to issue all required insurance ACORD form. Payment Bond and Performance Bond is required.

This Job Order Contract Delivery Order is subject to the terms and conditions of the Contract and may be cancelled pursuant to the provisions of the Arizona Revised Statutes Section 38-511. If there is a discrepancy between the terms and conditions of the Contract and Scope of Work in Exhibit A, the Contract supersedes the Scope of Work.

THEREFORE, the City of Buckeye by its Mayor and City Clerk has hereunto subscribed their name this _____.

THE CITY OF BUCKEYE, ARIZONA:
an Arizona Municipal Corporation

CITY OF BUCKEYE

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda Aja, City Clerk

_____
Chris Williams, Manager
Construction and Contracting Division

APPROVED AS TO FORM:

_____
City Attorney

CONTRACTOR:
PCL CONSTRUCTION, INC.
a Colorado corporation

_____
Mike McKinney, Vice President

EXHIBIT A

SCOPE OF WORK

AND

FEE PROPOSAL

July 9, 2021

Mark Seamans
Water Resources Manager
City of Buckeye
21749 W. Yuma Rd. Ste 107
Buckeye, AZ, 85326

Re: Guaranteed Maximum Price Proposal – Central WWTP Train C Rehabilitation.

Dear Mr. Seamans,

Please see attached GMP price proposal for the rehabilitation of Train C at the Buckeye Central WWTP Plant. Attached to this letter you will find:

1. List of Scope of Work Clarifications and Inclusions/Exclusions
2. GMP Price Proposal Summary by Scope of Work Item
3. GMP Detail Estimate
4. Supplier and Subcontractor Quotes
5. Baseline Schedule

Please do not hesitate to contact me if you have any questions or comments.

Best Regards,

PCL CONSTRUCTION, INC.

Jesus G Angulo
Project Manager
E-mail: jangulo@pcl.com
Mobile:(480)493-8706

CC: Arnold Coronado, James Humble, Todd Daugherty, Adam Gordon, Josh Tomita, Craig Yakubow

LIST OF SCOPE OF WORK CLARIFICATIONS AND INCLUSIONS/EXCLUSIONS

GMP PRICE PROPOSAL FOR THE REHABILITATION OF TRAIN C AT THE BUCKEYE CENTRAL WWTP

1.- GENERAL SCOPE OF WORK INCLUSIONS AND CLARIFICATIONS:

- This GMP price includes Supervision and Management Staff and Site Office for the Duration of the Project, expected to be as follows:
    - Procurement and preliminary planning July-August 2021
    - Construction Duration= 8 MO (expected to start in August 2021)
- GMP Price includes all Bonds, Insurances and Taxes
- GMP price includes the following Allowances detailed below:
    - Engineering
    - Programming
    - Grounding and Bonding Design and Build
    - Escalation
    - Permits
- This GMP price includes a 10% Owner's Contingency
- This GMP price includes General Expense and General Condition pricing for all the included Bid Items, removal or addition of bid items will require adjustment of General Expense and General Conditions
- Price includes construction water and temporary electrical connections for office trailer/connex
- GMP price includes a One Year Warranty

2.- BID ITEM DETAILED CLARIFICATIONS AND INCLUSIONS:

ITEM 1 – CLEAN AND REMOVE SLUDGE FROM TRAIN C AND CLARIFIER 5

- Price includes removal of water and sludge volume partially with vactor truck and dried at solids handling and partial sludge removal by drying and using crane and bucket. Drain water or solids from sludge drying will not be sent back to the plant process.

ITEM 2- INFLUENT PUMP #1 REPLACEMENT

- Price includes purchase and installation of a new 10" VTSH pump at the existing location where old 10" pump was removed with DO#004.
- Price includes reconnect and disconnect electrical and startup and testing.

ITEM 3.1 – AERATION BASIN TRAIN C MEMBRANE DIFFUSER REPAIRS

- Price includes inspection and replacement of damaged existing membrane diffuser system parts at Train C.
- Price includes $9,000 for material purchasing, final cost will be udpated once final inspection of current condition is complete.
- Price includes repair of mud valve stems as needed in Train C.

ITEM 3.2 – TRAIN C STAINLESS STEEL AIR PIPING HEADER REPLACEMENT

- Price includes excavation, purchasing and replacement of existing section of stainless-steel air header running parallel to Train C underground only and up to the riser right below the air valves.
- Price includes coating of stainless-steel pipe with coat of tar.

ITEM 3.3 – NEW AERATION ZONES

- Price includes installation and purchasing of new Motorized Operated Valves to replace existing manual valves to develop automated aeration Five (5) zones.
- Price includes installation of owner supplied DO and flowmeter instrumentation.
- Price includes wire pulling and terminate to new valves for power and control.
- Price includes startup and testing of valves and functional testing of new system.

ITEM 3.4 – MIXER REPLACEMENT

- Price includes purchasing and installation of Five (5) new anoxic mixers to replace existing mixers at Train C.
- Price includes electrical and control disconnect and reconnect and startup and testing.

ITEM 3.5 – IMLR PUMP REPLACEMENT

- Price includes purchasing and installation of Three (3) new Flygt Mixed Liquor Pumps for Train C to replace existing Hayward Gordon pumps.
- Price includes retrofitting piping to fit new pumps.
- Price includes electrical and control disconnect and reconnect and startup and testing.

ITEM 3.6 – NEW DUCTBANK TO TRAIN C

- Price includes excavation and installation of a new electrical ductbank to feed Train C electrical power and control to Three (3) IMLR pumps, Five (5) Mixers and Five (5) MOVs.
- Price includes all electrical materials, encasement with red dye reinforced concrete and wire pulling. Concrete encasement is assumed to be similar design as of Train A and B.
- Valve power wiring will be 120 V and not 24 VDC, assuming that there is adequate power source at the existing MCC.

ITEM 4 – PURCHASE AND INSTALL NEW BLOWER

- Price includes purchasing and installation of new blower at existing blower location in the blower building.
- Price includes power termination to blower and startup and testing.

ITEM 5.1 – CLARIFIER INSPECTION AND REHABILITATION

- Price includes rehabilitaton of clarifier mechanism by removing existing coating and applying new preparation and new coating.
- Price includes replacement of damaged parts such as squeegee, skimmer flap plastics and piping reconnection for sprayers and scum through.
- Price includes a $15,000 allowance to inspect and replace/repair existing underground isolation valve.

ITEM 5.3 – RAS/WAS PUMPS

- Price includes repair and rehabilitation of existing RAS/WAS pumps.
- Price includes removal and transport to mechanical facility and reinstallation.
- Price includes electrical and control disconnection and startup and testing.

A ITEMS - PROPOSED ALLOWANCES AND CONTINGENCIES

The following allowances and contingencies are recommended to be included and detailed as follows:

- ENGINEERING ALLOWANCE - $40,000
    - Allowance to be used for design report of DO control systems and other building permit design and submittals.
    - Allowance to be used for electrical engineering on duct banks
- PROGRAMMING ALLOWANCE - $20,000
    - Programming for modifications, especially for DO control
- GROUNDING LOOP- $180,000
    - For investigation, design and installation of new grounding/bonding loop for plant.
- ESCALATION ALLOWANCE - $50,000
    - Allowance for addiitonal price increases in materials or equipment due to current market conditions.
- PERMIT ALLOWANCE $7,500
    - Allowance for permit fees
- OWNER'S CONTINGENCY – 10% - APPROXIMATELY $154,346
    - For additional work or unforeseen/unknown conditions

3.- SCOPE OF WORK GENERAL EXCLUSIONS:

- Design and Engineering, allowances or contingencies can be used towards it
- Structural rehabilitation or repairs
- Underground piping other than air pipe repair at Train C and Clarifier 5 isolation valve.
- Dewatering Well assessment or rehabilitation/improvements
- Reuse water system assessment or rehabilitation/improvements
- Seal water system rehabilitation or repairs
- Train A and B assessment, rehabilitation, or improvements
- Overtime or weekend work, unless specifically priced for any Change Order or Allowance item
- Rehabilitation or modifications to CL Contact Basins and Filters.
- Rehabilitation or modifications to Headworks.
- Rehabilitation or modifications to Belt Press Area and Sludge Handling Facilities.
- Programming and SCADA, E&IC, allowance can be used towards programming
- Mechanical or underground piping replacement or rehabilitation unless specifically noted
- Building and special inspection permits, allowance for engineering can be used towards it
- Thermal air flow meters and DO probes purchasing for the Aeration Basin DO controlled zones. Mechanical and electrical installation is included.
- Effluent meter purchasing or installation and other conveyance piping work.
- Rehabilitation or modifications to existing buildings.
- Electrical improvements other than those related to new ductbank and aeration zones at Train C, allowance for grounding loop design and build is included.

GMP PRICE PROPOSAL SUMMARY BY SCOPE OF WORK ITEM

Project Number:	**TBD**	7/10/2021
Project Title:	**Central WRF Train C Rehabilitation**	
GUARANTEED MAXIMUM PRICE - CONSTRUCTION SERVICES		**AMOUNT**
INDIVIDUAL SCOPE OF WORK ITEMS		
1	Clean and remove sludge Train C and Clarifier 5	$ 69,318.00
2	Influent Pump #1 Replacement	$ 184,165.00
3.1	BASIN C - Membrane Diffuser Repairs	$ 82,625.00
3.2	BASIN C - Undergound Air Pipe Replacement	$ 165,839.00
3.3	BASIN C - New Aeration Zones MOVs	$ 121,689.00
3.4	BASIN C - Mixer Replacement	$ 136,392.00
3.5	BASIN C - IMLR Pump Replacement	$ 196,284.00
3.6	BASIN C - New Ductbank to Train C	$ 211,611.00
4	Purchase and Install New Blower	$ 212,264.00
5.1	CLARIFIER - Inspect and Rehabilitation	$ 110,697.00
5.3	CLARIFIER- Rehab RAS/WAS Pumps	$ 52,578.00
Q1	TOTAL SCOPE ITEMS AMOUNT	$ 1,543,462.00

ALLOWANCES AND CONTINGECIES		
A-1	Engineering Allowance	$ 40,000.00
A-2	Programming Allowance	$ 20,000.00
A-3	Grounding and Bonding Allowance	$ 180,000.00
A-4	Escalation Allowance	$ 50,000.00
A-5	Permits Allowance	$ 7,500.00
C-1	Owner's Contingency	$ 154,346.00
Q2	TOTAL ALLOWANCES	$ 451,846.00

Q3	GMP PRICE (Q1+Q2)	$ 1,995,308.00

Date	**July 13, 2021**
Time	**12:09:32 PM**
BE Number	**BE200828**
Opportunity No	
Owner File No	
Estimator	**Jesus Angulo**

PCL Construction, Inc.

Civil Infrastructure - Phoenix Special Projects

General Estimate Summary & Item Analysis Sheet

Project	**CENTRAL WRF TRAIN C REHABILITATION**
Location	**Buckeye, AZ, USA**
Owner	**City of Buckeye**
Designer	

Bid Closing	
Project Start	**July 19, 2021**
Completion	**March 16, 2022**

Sheet Name	Description	Quantity	UOM	Labor Hours	Labor Rate	Labor Total	Equipment Hours	Equipment Unit	Equipment Total	Services/ Tools / Supplies Unit	Services/ Tools / Supplies Total	Material Unit	Material Total	Subcontract Unit	Subcontract Total	Total Cost Unit	Total Cost Total
DIRECT PRICE																	
1	Clean and remove sludge Train C and Clarifier 5	178	CY	480	49.28	23,657	120	117.42	20,902	---	---	12.64	2,250	---	---	262.97	46,808
2	Influent Pump #1 Replacement	1	LS	64	49.28	3,154	16	---	2,212	---	---	---	110,995	---	8,000	---	124,361
3.1	BASIN C - Membrane Diffuser Repairs	1	LS	630	49.28	31,034	24	---	5,760	---	---	---	19,000	---	---	---	55,794
3.2	BASIN C - Undergound Air Pipe Replacement	1	LS	696	49.28	34,302	264	---	4,884	---	---	---	3,000	---	69,800	---	111,986
3.3	BASIN C - New Aeration Zones MOVs	1	LS	80	49.28	3,943	20	---	730	---	---	---	45,000	---	32,500	---	82,173
3.4	BASIN C - Mixer Replacement	1	LS	133	49.28	6,555	133	---	4,856	---	1,250	---	79,440	---	---	---	92,101
3.5	BASIN C - IMLR Pump Replacement	3	EA	222	49.28	10,941	96	1,168	3,505	---	---	36,866	110,598	2,500.00	7,500	44,181.45	132,544
3.6	BASIN C - New Ductbank to Train C	1	LS	326	49.28	16,067	130	---	2,337	---	---	---	4,890	---	119,600	---	142,894
4	Purchase and Install New Blower	1	LS	32	49.28	1,577	8	---	1,920	---	---	---	132,338	---	7,500	---	143,335
5.1	CLARIFIER - Inspect and Rehabilitation	1	LS	---	---	---	---	---	---	---	---	---	15,000	---	59,750	---	74,750
5.3	CLARIFIER- Rehab RAS/WAS Pumps	2	EA	108	49.28	5,323	48	876.28	1,753	---	---	14,215	28,429	---	---	17,752.16	35,504
TAX	TAXES	1	LS	---	---	---	---	---	---	---	---	---	81,263	---	---	---	81,263
DIRECT PRICE				2,771	---	136,553	859	---	48,858	---	1,250	---	632,203	---	304,650	---	1,123,514
GENERAL EXPENSE PRICE																	
FIXED GENERAL EXPENSE		**1**	**LS**														
GE 8	F6 BOND	100	%	---	---	---	---	---	---	92.61	9,261	---	---	---	---	92.61	9,261
GE 9	INSURANCE	100	%	---	---	---	---	---	---	282.09	28,209	---	---	---	---	282.09	28,209
FIXED GENERAL EXPENSE		1	LS	---	---	---	---	---	---	---	37,470	---	---	---	---	---	37,470
VARIABLE GENERAL EXPENSE		**1**	**LS**														
GE 12	V2 OPERATE BLDGS-FACIL	100	%	24	49.28	1,183	1,038	24	2,400	---	---	36.10	3,610	---	---	71.93	7,193
GE 14	V4 OPERATE UTILITIES	100	%	---	---	---	---	---	---	84	8,400	---	---	---	---	84.00	8,400
GE 17	V7 PROJECT STAFF	100	%	1,781	111.60	198,805	1,038	250.04	25,004	---	---	---	---	---	---	2,238.09	223,809
GE 19	V9 MANAGEMENT SERVICE	100	%	---	---	---	4,152	48.10	4,810	108.24	10,824	---	---	---	---	156.34	15,634
VARIABLE GENERAL EXPENSE		1	LS	1,805	---	199,988	6,228	---	32,214	---	19,224	---	3,610	---	---	---	255,036
GENERAL EXPENSE PRICE		26.03%	T.DC.	1,805	---	199,988	6,228	---	32,214	---	56,694	---	3,610	---	---	---	292,505

PCL Construction, Inc.
Civil Infrastructure - Phoenix Special Projects

General Estimate Summary

Sheet Name	Description	Quantity	UOM	Labor Hours	Labor Rate	Labor Total	Equipment Hours	Equipment Unit	Equipment Total	Services/ Tools / Supplies Unit	Services/ Tools / Supplies Total	Material Unit	Material Total	Subcontract Unit	Subcontract Total	Total Cost Unit	Total Cost Total
TOTAL PRICE				4,576	---	336,541	7,087	---	81,072	---	57,944	---	635,813	---	304,650	---	1,416,020
Fee		9.00%	T.C.														127,442
TOTAL BID																	1,543,461
OWNER ALLOWANCES AND CONTINGENCIES																	
A-1	Engineering Allowance	1	LS	---	---	---	---	---	---	---	---	---	40,000	---	---	---	40,000
A-2	Programming Allowance	1	LS	---	---	---	---	---	---	---	---	---	20,000	---	---	---	20,000
A-3	GROUNDING LOOP	1	LS	---	---	---	---	---	---	---	---	---	180,000	---	---	---	180,000
A-4	ESCALATION ALLOWANCE	1	LS	---	---	---	---	---	---	---	---	---	50,000	---	---	---	50,000
A-5	Permit Allowance	1	LS	---	---	---	---	---	---	---	---	---	7,500	---	---	---	7,500
C-1	Owner's Contingency	1	LS	---	---	---	---	---	---	---	---	---	154,346	---	---	---	154,346
OWNER ALLOWANCES AND CONTINGENCIES		26.03%	T.DC.	---	---	---	---	---	---	---	---	---	451,846	---	---	---	451,846
TOTAL BID (including allowances and contingencies)																	1,995,308

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

1 Clean and remove sludge Train C and Clarifier 5 178.00 CY

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	The PCL Price Model for the Buckeye Central WRF Train C Rehabilitation Project is based in whole on the following:																	
	Billable hourly equipment rates shall be the FHWA operated rates published by Bluebook (penton) on equipmentwatch.com																	
	Labor rates utilized in this price model are estimates of projected market conditions at the time the work will be performed and may not reflect PCL's actual labor cost.																	
	This price proposal is subject to mutually agreed contract terms and conditions.																	
	This price proposal is contingent upon arrangements being made that are satisfactory to PCL for payment of the contract price and security for all payment obligations to PCL																	
	Remove Sludge/Grit from Train C and Clarifier 5	**1**	**LS**															
	Estimate 2 feet deep for entire Train C length and width																	
	2' X 107' X 22.5'	178.33	CY															
	Fly in skidsteer and load grit/sludge into laydown bucket																	
	Fill and fly bucket and dispose to dumpsters																	
	Wet jet sludge and remove with vacuum truck																	
	Dump in drying slab at Sludge Handling																	
	No liquids or solids from sludge drying will be sent back to the plant																	
	Two weeks labor crew + 40 Hrs Vactor Truck																	
4	Labor Crew	80	HR	1.000	1.000	320	SPC 49.28	15,771	---	---	---	---	---	---	---	---	197.14	15,771
	Vactor Truck	40	HR	1.000	1.000	---	---	---	280.00	11,200	---	---	---	---	---	---	280.00	11,200
	Use crane and bucket to remove dry grit and sludge																	
	Dispose using dumpster																	
	One week																	
4	Labor Crew	40	HR	1.000	1.000	160	SPC 49.28	7,886	---	---	---	---	---	---	---	---	197.14	7,886
	40 Ton Crane	40	HR	1.000	1.000	---	---	---	240.00	9,600	---	---	---	---	---	---	240.00	9,600
	Laydown bucket	40	HR	1.000	1.000	---	---	---	2.54	102	---	---	---	---	---	---	2.54	102
	Dumpsters	3	LD	---	---	---	---	---	---	---	---	---	750.00	2,250	---	---	750.00	2,250
	Remove Sludge/Grit from Train C	1.00	LS	---	---	480	49.28	23,657	---	20,902	---	---	---	2,250	---	---	---	46,808

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

1 Clean and remove sludge Train C and Clarifier 5 178.00 LS

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	$ / hr	Total	$ / hr	Total	$/ItemUnit	Total	$/ItemUnit	Total	$/ItemUnit	Total	Unit	Total
Clean and remove sludge Train C and		178.00	CY	0.371	2.697	480	49.28	23,657	---	20,902	---	---	12.64	2,250	---	---	262.97	46,808

1 Clean and remove sludge Train C and Clarifier 5 178.00

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

2 Influent Pump #1 Replacement 1.00 LS

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	Pump #4 was removed in JOC #004 Install new 10" VTSH and new seal water piping																	
P	Purchase VTSH Pump - Hennesy	1	EA	---	---	---	---	---	---	---	---	---	110,995.00	110,995	---	---	110,995.00	110,995
	Install new VTSH pump	**1**	**LS**															
4	Install and set new pump	1	EA	0.063	16.000	64	SPC 49.28	3,154	---	---	---	---	---	---	---	---	3,154.23	3,154
	Forklift, RT 8000# Reach	8	HR	1.000	1.000	---	---	---	36.51	292	---	---	---	---	---	---	36.51	292
	60 Ton Crane	8	HR	1.000	1.000	---	---	---	240.00	1,920	---	---	---	---	---	---	240.00	1,920
	Install new VTSH pump	1.00	LS	---	---	64	49.28	3,154	---	2,212	---	---	---	---	---	---	---	5,366
	Electrical work Disconnect and reconnect pump																	
	Electrical sub - disconnect - reconnect	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	8,000	---	8,000
	Influent Pump #1 Replacement	1.00	LS	---	---	64	49.28	3,154	---	2,212	---	---	---	110,995	---	8,000	---	124,361

2 Influent Pump #1 Replacement 1.00

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

3.1 BASIN C - Membrane Diffuser Repairs 1.00 LS

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	Train C requires removal of old bubblers and install new																	
	Labor and equipment only																	
	Material included includes only what's required																	
	to complete inventory for one basin																	
Train C - Membrane Diffuser Repairs		**1,878**	**SF**															
	Aeration Basin 3C - 28'X22.5'																	
	Aeration Basin 4C - 27.5'X22.5'																	
	Aeration Basin 5C - 28'X22.5'																	
	Remove Equipment Train C					**1,878.75**	**SF**											
	Remove A-Basin Fine Bubble System	1,879	SF	12.000	0.083	157	SPC 49.28	7,716	---	---	---	---	---	---	---	---	4.11	7,716
	Install Equipment Train C					**1,878.75**	**SF**											
	Install A-Basin Fine Bubble System	1,879	SF	6.000	0.167	313	SPC 49.28	15,432	---	---	---	---	---	---	---	---	8.21	15,432
	Epoxy and drilling anchor STS	1	LS	---	---	---	---	---	---	---	---	---	---	3,500	---	---	---	3,500
	Fly out and fly in material bundles																	
4	Labor Crew	24	HR	1.000	1.000	96	SPC 49.28	4,731	---	---	---	---	---	---	---	---	197.14	4,731
	40 TON Crane	24	HR	1.000	1.000	---	---	---	240.00	5,760	---	---	---	---	---	---	240.00	5,760
	Membrane Diffusers Parts Purchase																	
	Received quote from JCH for $8,788																	
	Assume a $9,000 allowance																	
	Membrane Diffusers Allowance	1	LS	---	---	---	---	---	---	---	---	---	---	9,000	---	---	---	9,000
Train C - Membrane Diffuser Repairs		1,878.00	SF	3.320	0.301	566	49.28	27,880	3.07	5,760	---	---	6.66	12,500	---	---	24.57	46,140
Repair Mud Valves		**1**	**LS**															
4	Labor Crew	16	HR	1.000	1.000	64	SPC 49.28	3,154	---	---	---	---	---	---	---	---	197.14	3,154
	Welding and Supplies (Invoice from last project)	1	LS	---	---	---	---	---	---	---	---	---	---	6,500	---	---	---	6,500
Repair Mud Valves		1.00	LS	---	---	64	49.28	3,154	---	---	---	---	---	6,500	---	---	---	9,654

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

3.1 BASIN C - Membrane Diffuser Repairs 1.00 LS

No. Description	Quantity UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
				Hours	$ / hr	Total	$ / hr	Total	$/ItemUnit	Total	$/ItemUnit	Total	$/ItemUnit	Total	Unit	Total
BASIN C - Membrane Diffuser Repairs	1.00 LS	---	---	630	49.28	31,034	---	5,760	---	---	---	19,000	---	---	---	55,794

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

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3.2 BASIN C - Undergound Air Pipe Replacement 1.00 LS

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	Excavate pipe and remove and replace SS air header																	
	Risers included below exposed pipe																	
	INVESTIGATION AND TESTING	**1**	**LS**															
4	Pipe Crew	24	HR	1.000	1.000	96	SPC 49.28	4,731	---	---	---	---	---	---	---	---	197.14	4,731
	Testing STS	1	LS	---	---	---	---	---	---	---	---	---	---	500	---	---	---	500
	Comp 185 CFM Diesel	24	HR	1.000	1.000	---	---	---	7.61	183	---	---	---	---	---	---	7.61	183
	INVESTIGATION AND TESTING	1.00	LS	---	---	96	49.28	4,731	---	183	---	---	---	500	---	---	---	5,414
	EXCAVATE/REPLACE AND BACKFILL PIPING	**1**	**LS**															
4	Pipe Crew	120	HR	1.000	1.000	480	SPC 49.28	23,657	---	---	---	---	---	---	---	---	197.14	23,657
	Bckho-Ldr Ct 420C 1.0cy	120	HR	1.000	1.000	120	SPC 49.28	5,914	23.80	2,856	---	---	---	---	---	---	73.08	8,770
	Trench Boxes	1	LS	---	---	---	---	---	---	---	---	---	---	2,500	---	---	---	2,500
	Trench Compactor 24"-33"	120	HR	1.000	1.000	---	---	---	15.38	1,846	---	---	---	---	---	---	15.38	1,846
	Replace from valve box - excludes risers																	
P	SH ENGINEERING - SS PIPE	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	63,000	---	63,000
P	SH ENGINEERING - COAT OD OF PIPE	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	6,800	---	6,800
	EXCAVATE/REPLACE AND BACKFIL	1.00	LS	---	---	600	49.28	29,571	---	4,701	---	---	---	2,500	---	69,800	---	106,572
	BASIN C - Undergound Air Pipe Replac	1.00	LS	---	---	696	49.28	34,302	---	4,884	---	---	---	3,000	---	69,800	---	111,986

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

3.3 BASIN C - New Aeration Zones MOVs 1.00 LS

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	Install 5 DO control zones at Train C Includes purchase and install of MOV with actuators Includes install of owner supplied flowmeters and DO meters Electrical cost is for wiring and terminate																	
	Aeration DO control Zones	**5**	**EA**															
	Purchase MOVs include actuators	5	EA	---	---	---	---	---	---	---	---	---	7,500.00	37,500	---	---	7,500.00	37,500
	Actuators include 1% motors																	
4	Install piping and test	5	EA	0.250	4.000	80	SPC 49.28	3,943	---	---	---	---	---	---	---	---	788.56	3,943
	Forklift, RT 8000# Reach	5	EA	0.250	4.000	---	---	---	36.51	730	---	---	---	---	---	---	146.05	730
	Pipe modifications - ALLOWANCE	5	EA	---	---	---	---	---	---	---	---	---	1,500.00	7,500	---	---	1,500.00	7,500
	Aeration DO control Zones	5.00	EA	0.063	16.000	80	49.28	3,943	146.05	730	---	---	9,000.00	45,000	---	---	9,934.60	49,673
	Electrical Subcontractor	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	32,500	---	32,500
	BASIN C - New Aeration Zones MOVs	1.00	LS	---	---	80	49.28	3,943	---	730	---	---	---	45,000	---	32,500	---	82,173

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

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3.4 BASIN C - Mixer Replacement 1.00 LS

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	Purchase Mixers - JCH	5	EA	---	---	---	---	---	---	---	---	---	15,888.00	79,440	---	---	15,888.00	79,440
	Offload/Handle Equipment	8	HR	1.000	1.000	8	SPC 49.28	394	36.51	292	---	---	---	---	---	---	85.80	686
	Install & Test Equipment	5	EA	0.040	25.000	125	SPC 49.28	6,161	36.51	4,564	---	---	---	---	---	---	2,144.91	10,725
	Installation ST&S	5	EA	---	---	---	---	---	---	---	250.00	1,250	---	---	---	---	250.00	1,250
BASIN C - Mixer Replacement		1.00	LS	---	---	133	49.28	6,555	---	4,856	---	1,250	---	79,440	---	---	---	92,101

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

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3.5 BASIN C - IMLR Pump Replacement 3.00 EA

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	Demo/Remove Existing Grout	21	CF	0.500	2.000	42	SPC 49.28	2,070	---	---	---	---	---	---	---	---	98.57	2,070
	Place new grout material	21	CF	0.250	4.000	84	SPC 49.28	4,140	---	---	---	---	10.00	210	---	---	207.14	4,350
P	Purchase New IMLR Pumps	3	EA	---	---	---	---	---	---	---	---	---	33,296.00	99,888	---	---	33,296.00	99,888
4	Modify piping and install pumps	3	EA	0.125	8.000	96	SPC 49.28	4,731	36.51	3,505	---	---	---	---	---	---	2,745.49	8,236
	Pipe for modifications/fit new pumps	3	EA	---	---	---	---	---	---	---	---	---	3,500.00	10,500	---	---	3,500.00	10,500
	Electrical Disconnect/Connect	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	7,500	---	7,500
BASIN C - IMLR Pump Replacement		3.00	EA	0.014	74.000	222	49.28	10,941	---	3,505	---	---	36,866.00	110,598	2,500.00	7,500	44,181.45	132,544

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

3.6 BASIN C - New Ductbank to Train C 1.00 LS

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	New ductbank from MCC to Train C																	
	Power/control for new MOVs																	
	Power to new IMLRs																	
	Power to Mixers																	
	Power to new MOVs will be 120V, assuming																	
	power source is available at MCC																	
	Aeration Basin Anoxic Zones	**160**	**LF**															
	160 LF - 36"W X 24"H																	
	Reinforced concrete encased																	
	Excavate and Backfill Ductbanks	**160**	**LF**															
	Pothole					310.00	LF											
4	Special Projects Crew	310	LF	20.000	0.050	62	SPC 49.28	3,056	---	---	---	---	---	---	---	---	9.86	3,056
	Backhoe-Ldr 420 F 1CY	310	LF	20.000	0.050	---	---	---	23.80	369	---	---	---	---	---	---	1.19	369
	Excavate					36.00	CY											
4	Special Projects Crew	36	CY	1.500	0.667	96	SPC 49.28	4,731	---	---	---	---	---	---	---	---	131.43	4,731
	Backhoe-Ldr 420 F 1CY	36	CY	1.500	0.667	---	---	---	23.80	571	---	---	---	---	---	---	15.86	571
	Tank Trl Water 500 Gal	36	CY	1.500	0.667	---	---	---	5.91	142	---	---	---	---	---	---	3.94	142
	Place rebar and concrete					30.00	CY											
4	Special Projects Crew	30	CY	1.000	1.000	120	SPC 49.28	5,914	---	---	---	---	---	---	---	---	197.14	5,914
	Backhoe-Ldr 420 F 1CY	30	CY	1.000	1.000	---	---	---	23.80	714	---	---	---	---	---	---	23.80	714
	250 lbs per CY / $2,500 per TN / $312.5 per CY																	
	Purchase and install reinforcement	30	CY	---	---	---	---	---	---	---	---	---	---	---	320.00	9,600	320.00	9,600
	Purchase red dye concrete - 4000 PSI	30	CY	---	---	---	---	---	---	---	---	---	163.00	4,890	---	---	163.00	4,890
	Backfill					6.00	CY											
	Backhoe-Ldr 420 F 1CY	6	CY	0.500	2.000	---	---	---	23.80	286	---	---	---	---	---	---	47.59	286
	Tank Trl Water 500 Gal	6	CY	0.500	2.000	---	---	---	5.91	71	---	---	---	---	---	---	11.82	71
4	Special Projects Crew	6	CY	0.500	2.000	48	SPC 49.28	2,366	---	---	---	---	---	---	---	---	394.28	2,366
	Trench Compactor 24"-33"	6	CY	0.500	2.000	---	---	---	15.38	185	---	---	---	---	---	---	30.76	185
	Excavate and Backfill Ductbanks	160.00	LF	0.491	2.038	326	49.28	16,067	14.60	2,337	---	---	30.56	4,890	60.00	9,600	205.58	32,894
P	Electrical Subcontractor	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	110,000	---	110,000

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

3.6 BASIN C - New Ductbank to Train C 1.00 LS

No. Description	Quantity UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
Install conduit, pull wire and terminate																
Aeration Basin Anoxic Zones	160.00 LF	0.491	2.038	326	49.28	16,067	14.60	2,337	---	---	30.56	4,890	747.50	119,600	893.08	142,894
BASIN C - New Ductbank to Train C	1.00 LS	---	---	326	49.28	16,067	---	2,337	---	---	---	4,890	---	119,600	---	142,894

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

4 Purchase and Install New Blower 1.00 LS

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	Also include installation of new Blower per JCH/KAESER quote Electrical included in electrical section																	
P	Purchase new Blower - KAESER	1	EA	---	---	---	---	---	---	---	---	---	131,588.00	131,588	---	---	131,588.00	131,588
4	Install Blower and Startup	1	EA	0.125	8.000	32	SPC 49.28	1,577	---	---	---	---	---	---	---	---	1,577.11	1,577
	40 Ton Crane	1	EA	0.125	8.000	---	---	---	240.00	1,920	---	---	---	---	---	---	1,920.00	1,920
	Anchors and Install STS	1	LS	---	---	---	---	---	---	---	---	---	---	750	---	---	---	750
	Electrical install and startup	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	7,500	---	7,500
Purchase and Install New Blower		1.00	LS	---	---	32	49.28	1,577	---	1,920	---	---	---	132,338	---	7,500	---	143,335

4 Purchase and Install New Blower 1.00

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

5.1 CLARIFIER - Inspect and Rehabilitation 1.00 LS

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	Rehab 80-0' DIA Clarifier - mechanism																	
P	Rehab Clarifier Mechanism - SH Engineering	1	LS	---	---	---	---	---	---	---	---	---	---	---	---	59,750	---	59,750
	Includes repair spray bars, scum bay, squeegee and other misc items																	
	Clarifier Piping/SC repair allowance	1	LS	---	---	---	---	---	---	---	---	---	---	15,000	---	---	---	15,000
	Underground piping and valves																	
CLARIFIER - Inspect and Rehabilitatio		1.00	LS	---	---	---	---	---	---	---	---	---	---	15,000	---	59,750	---	74,750

Item Analysis Sheet

BE Number BE200828
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Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

5.3 CLARIFIER- Rehab RAS/WAS Pumps 2.00 EA

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	Demo/Remove Existing Grout	10	CF	0.500	2.000	20	SPC 49.28	986	---	---	---	---	---	---	---	---	98.57	986
	Place new grout material	10	CF	0.250	4.000	40	SPC 49.28	1,971	---	---	---	---	10.00	100	---	---	207.14	2,071
P	Hennesy Mechanical Pump Re-build Quote	3	EA	---	---	---	---	---	---	---	---	---	8,076.00	24,228	---	---	8,076.00	24,228
P	Hennesy Mechanical Pump Motor Re-conditioning	3	EA	---	---	---	---	---	---	---	---	---	1,367.00	4,101	---	---	1,367.00	4,101
4	Support Equipment and Labor Assist	3	EA	0.250	4.000	48	SPC 49.28	2,366	36.51	1,753	---	---	---	---	---	---	1,372.74	4,118
CLARIFIER- Rehab RAS/WAS Pumps		2.00	EA	0.019	54.000	108	49.28	5,323	---	1,753	---	---	14,214.50	28,429	---	---	17,752.16	35,504

Item Analysis Sheet

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Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

TAX TAXES 1.00 LS

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	$ / hr	Total	$ / hr	Total	$/ItemUnit	Total	$/ItemUnit	Total	$/ItemUnit	Total	Unit	Total
	Arizona Gross Receipts Tax	1,543,461	TB	---	---	---	---	---	---	---	---	---	0.052650	81,263	---	---	0.052650	81,263
TAXES		1.00	LS	---	---	---	---	---	---	---	---	---	---	81,263	---	---	---	81,263

TAX TAXES 1.00

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

GE 8 F6 BOND 100.00 %

No. Description	Quantity UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
				Hours	$ / hr	Total	$ / hr	Total	$/ItemUnit	Total	$/ItemUnit	Total	$/ItemUnit	Total	Unit	Total
US CONTRACT BOND Class B	**100 %**															
US CONTRACT BOND Class B	1,543,461 TB	---	---	---	---	---	---	---	0.006000	9,261	---	---	---	---	0.006000	9,261
US CONTRACT BOND Class B	100.00 %	---	---	---	---	---	---	---	92.61	9,261	---	---	---	---	92.61	9,261
F6 BOND	100.00 %	---	---	---	---	---	---	---	92.61	9,261	---	---	---	---	92.61	9,261

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

GE 9 INSURANCE 100.00 %

Proprietary and Confidential

No. Description	Quantity UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
General Liability	**100 %**															
Gen Liab-USA 8.50/M	1,543,461 TB	---	---	---	---	---	---	---	0.008500	13,119	---	---	---	---	0.008500	13,119
General Liability	100.00 %	---	---	---	---	---	---	---	131.19	13,119	---	---	---	---	131.19	13,119
Builders Risk Insurance	**100 %**															
Builders Risk	1,543,461 TB	---	---	---	---	---	---	---	0.001300	2,006	---	---	---	---	0.001300	2,006
Builders Risk Insurance	100.00 %	---	---	---	---	---	---	---	20.06	2,006	---	---	---	---	20.06	2,006
Subguard	**100 %**															
AMOUNT OF SUBS AND EQUIPMENT SUPPLIERS $969,105 * .0135 = $13,083																
Subguard	1 LS	---	---	---	---	---	---	---	---	13,083	---	---	---	---	---	13,083
Subguard	100.00 %	---	---	---	---	---	---	---	130.83	13,083	---	---	---	---	130.83	13,083
INSURANCE	100.00 %	---	---	---	---	---	---	---	282.09	28,209	---	---	---	---	282.09	28,209

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

GE 12 V2 OPERATE BLDGS-FACIL 100.00 %

Proprietary and Confidential

No. Description	Quantity UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
Laydown/Onsite Office Area	**6 MO**															
Assume power can be obtained onsite for Office Trailer																
Connex/Office	6 MO	1.000	1.000	---	---	---	2.31	2,400	---	---	---	---	---	---	400.00	2,400
Office Trailer Removal	2 EA	---	---	---	---	---	---	---	---	---	500.00	1,000	---	---	500.00	1,000
-Demob for existing trailer																
Hot Spot	6 MO	---	---	---	---	---	---	---	---	---	85.00	510	---	---	85.00	510
Office Supplies	6 MO	---	---	---	---	---	---	---	---	---	350.00	2,100	---	---	350.00	2,100
Dismantle Office	24 HR	1.000	1.000	24	SPC 49.28	1,183	---	---	---	---	---	---	---	---	49.28	1,183
Laydown/Onsite Office Area	6.00 MO	0.250	4.000	24	49.28	1,183	400.00	2,400	---	---	601.67	3,610	---	---	1,198.81	7,193
V2 OPERATE BLDGS-FACIL	100.00 %	4.167	0.240	24	49.28	1,183	---	2,400	---	---	36.10	3,610	---	---	71.93	7,193

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

GE 14 V4 OPERATE UTILITIES 100.00 %

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	$ / hr	Total	$ / hr	Total	$/ItemUnit	Total	$/ItemUnit	Total	$/ItemUnit	Total	Unit	Total
Site Services		**6**	**MO**															
2	Portable Toilets	6	MO	---	---	---	---	---	---	---	250.00	3,000	---	---	---	---	500.00	3,000
	-two toilets																	
	Garbage Pickup	6	MO	---	---	---	---	---	---	---	700.00	4,200	---	---	---	---	700.00	4,200
Site Services		6.00	MO	---	---	---	---	---	---	---	1,200.00	7,200	---	---	---	---	1,200.00	7,200
Construction Water		**1**	**LS**															
	Water Billing	6	MO	---	---	---	---	---	---	---	200.00	1,200	---	---	---	---	200.00	1,200
	- 4 month duration																	
Construction Water		1.00	LS	---	---	---	---	---	---	---	---	1,200	---	---	---	---	---	1,200
V4 OPERATE UTILITIES		100.00	%	---	---	---	---	---	---	---	84.00	8,400	---	---	---	---	84.00	8,400

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

GE 17 V7 PROJECT STAFF 100.00 %

Proprietary and Confidential

No. Description	Quantity UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
SCHEDULE:																
PROCUREMENT JUN-JUL = 1 MO																
CONSTRUCTION DURATION: 6 MONTHS																
Management	**100 %**															
Project Manager - Procurement	1 MO	1.000	1.000	173	ST1 105.09	18,215	---	---	---	---	---	---	---	---	18,215.00	18,215
Project Manager - Construction	3 MO	1.000	1.000	520	ST1 105.09	54,645	---	---	---	---	---	---	---	---	18,215.00	54,645
Management	100.00 %	0.144	6.933	693	105.09	72,860	---	---	---	---	---	---	---	---	728.60	72,860
Safety Supervision	**100 %**															
Safety Supervisor	48 HR	1.000	1.000	48	EN2 98.76	4,741	---	---	---	---	---	---	---	---	98.76	4,741
Safety Supervision	100.00 %	2.083	0.480	48	98.76	4,741	---	---	---	---	---	---	---	---	47.41	4,741
Supervision	**100 %**															
Project Superintendent	6 MO	1.000	1.000	1,040	SU1 116.54	121,204	---	---	---	---	---	---	---	---	20,200.74	121,204
Supervision	100.00 %	0.096	10.400	1,040	116.54	121,204	---	---	---	---	---	---	---	---	1,212.04	121,204
VEHICLES	**100 %**															
Cars & Pickups	**100 %**															
Pickup Truck	6 MO	1.000	1.000	---	---	---	24.09	25,004	---	---	---	---	---	---	4,167.31	25,004
Cars & Pickups	100.00 %	---	---	---	---	---	250.04	25,004	---	---	---	---	---	---	250.04	25,004
VEHICLES	100.00 %	---	---	---	---	---	250.04	25,004	---	---	---	---	---	---	250.04	25,004

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

GE 17 V7 PROJECT STAFF 100.00 %

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor			Equipment		Services/ Tools/Supplies		Perm. Material		SubContract		Total Cost	
						Hours	$ / hr	Total	$ / hr	Total	$/ItemUnit	Total	$/ItemUnit	Total	$/ItemUnit	Total	Unit	Total
V7 PROJECT STAFF		100.00	%	0.056	17.813	1,781	111.60	198,805	---	25,004	---	---	---	---	---	---	2,238.09	223,809

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

GE 19 V9 MANAGEMENT SERVICE 100.00 %

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
First Aid and Safety STS		**6**	**MO**															
	Medical/Drug Testing	6	EA	---	---	---	---	---	---	---	75.00	450	---	---	---	---	75.00	450
	Training & Orientation	6	EA	---	---	---	---	---	---	---	35.00	210	---	---	---	---	35.00	210
	F.A. & Safety Supplies	4,576	MH	---	---	---	---	---	---	---	0.120000	549	---	---	---	---	0.120000	549
	Fire Protection	4,576	MH	---	---	---	---	---	---	---	0.070000	320	---	---	---	---	0.070000	320
	Water Coolers	2	EA	---	---	---	---	---	---	---	50.00	100	---	---	---	---	50.00	100
	Drinking Water & Ice	6	MO	---	---	---	---	---	---	---	50.00	300	---	---	---	---	50.00	300
2	Air Monitors	6	MO	1.000	1.000	---	---	---	1.43	2,961	---	---	---	---	---	---	493.49	2,961
2	Yo Yo Winch	6	MO	1.000	1.000	---	---	---	0.8906	1,849	---	---	---	---	---	---	308.15	1,849
First Aid and Safety STS		6.00	MO	---	---	---	---	---	801.64	4,810	321.57	1,929	---	---	---	---	1,123.21	6,739
Small Tools and Expendables		**4**	**MO**															
	Small Tool Assess	4,576	MH	---	---	---	---	---	---	---	1.20	5,491	---	---	---	---	1.20	5,491
	Expendables Assess	4,576	MH	---	---	---	---	---	---	---	0.700000	3,203	---	---	---	---	0.700000	3,203
	Eng. Supplies,Blueprints	4	MO	---	---	---	---	---	---	---	50.00	200	---	---	---	---	50.00	200
Small Tools and Expendables		4.00	MO	---	---	---	---	---	---	---	2,223.61	8,894	---	---	---	---	2,223.61	8,894
V9 MANAGEMENT SERVICE		100.00	%	---	---	---	---	---	---	4,810	108.24	10,824	---	---	---	---	156.34	15,634

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

A-1 Engineering Allowance 1.00 LS

No. Description	Quantity UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
Engineering for DO control system Electrical permits and drawings Inspections and QC																
ENGINEERING ALLOWANCE	1 LS	---	---	---	---	---	---	---	---	---	---	40,000	---	---	---	40,000
Engineering Allowance	1.00 LS	---	---	---	---	---	---	---	---	---	---	40,000	---	---	---	40,000

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

A-2 Programming Allowance 1.00 LS

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	VERTECH programming																	
	ALLOWANCE	1	LS	---	---	---	---	---	---	---	---	---	---	20,000	---	---	---	20,000
Programming Allowance		1.00	LS	---	---	---	---	---	---	---	---	---	---	20,000	---	---	---	20,000

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

A-3 GROUNDING LOOP 1.00 LS

No. Description	Quantity UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
Investigate, design and construct new grounding loop for entire plant																
ALLOWANCE	1 LS	---	---	---	---	---	---	---	---	---	---	180,000	---	---	---	180,000
GROUNDING LOOP	1.00 LS	---	---	---	---	---	---	---	---	---	---	180,000	---	---	---	180,000

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

A-4 ESCALATION ALLOWANCE 1.00 LS

Proprietary and Confidential

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	Potential escalation after June 1st for materials 25% of expected metal materials purchases																	
ALLOWANCE		1	LS	---	---	---	---	---	---	---	---	---	---	50,000	---	---	---	50,000
ESCALATION ALLOWANCE		1.00	LS	---	---	---	---	---	---	---	---	---	---	50,000	---	---	---	50,000

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

A-5 Permit Allowance 1.00 LS

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	City of Buckeye charges 3% on cost of project for permits Expected cost of ductbank work is $175000																	
	ALLOWANCE	1	LS	---	---	---	---	---	---	---	---	---	---	7,500	---	---	---	7,500
Permit Allowance		1.00	LS	---	---	---	---	---	---	---	---	---	---	7,500	---	---	---	7,500

Item Analysis Sheet

BE Number BE200828
Opportunity No
Owner File No
Project **CENTRAL WRF TRAIN C REHABILITATION**
Location Buckeye, AZ, USA

Jesus Angulo

Proprietary and Confidential

C-1 Owner's Contingency 1.00 LS

No.	Description	Quantity	UOM	Units Per Hours	ManHrs Per Unit	Labor Hours	Labor $ / hr	Labor Total	Equipment $ / hr	Equipment Total	Services/ Tools/Supplies $/ItemUnit	Services/ Tools/Supplies Total	Perm. Material $/ItemUnit	Perm. Material Total	SubContract $/ItemUnit	SubContract Total	Total Cost Unit	Total Cost Total
	10% Owner's Contingency	1,543,461	TB	---	---	---	---	---	---	---	---	---	0.100000	154,346	---	---	0.100000	154,346
Owner's Contingency		1.00	LS	---	---	---	---	---	---	---	---	---	---	154,346	---	---	---	154,346

PENTAIR FLOW TECHNOLOGIES
Fairbanks Nijhuis
+1.913.371.5000 main
+1.913.371.4025 fax

3601 Fairbanks Avenue
P.O. Box 6999
Kansas City, KS 66106
United States
www.fairbanksnijhuis.com

SCOPE OF SUPPLY

Date: **June 14, 2021**
To: PCL
Attn: Jesus Angulo
Reference: SN 1336111
Quote No: W210142R2
Note: Hydraulic and dimensional duplicate to SN 1336111

Pentair is pleased to offer for your consideration the following product:

Quantity : (1) Fairbanks Nijhuis 10" VTSH-AWF Vertical Turbine Solids Handling Pump assembly with above ground discharge, water-flush line shaft construction, and includes VSS motor.

Pumping Conditions: 2,000 GPM @ 79' TDH @ 1,780 RPM

Bowl assembly:
- Cast aluminum hydrocone; ASTM B26 AL319.0
- Cast iron suction bell and diffuser bowl; ASTM A48 CL 30
- Dynamically balanced impeller, no balance report
- Cast iron impeller; ASTM A48 CL 30
- Steel impeller fastener; SAE J429 Grade 8
- Bronze-backed rubber bowl bearings
- Stainless steel bowl wear ring and throttle ring; ASTM A743 CA-40, 300-350 BHN
- Stainless steel impeller wear ring; ASTM A743 CA-10, 190-241 BHN
- 416 SS bowl shaft with hard coating at bearing journals; ASTM A582 S41600
- 316 SS bowl bolting
- (1) coat of coal-tar epoxy on exterior of Bowl assembly, 8 mils DFT, color black.

Column:
- 10" carbon steel flanged column, 10' maximium length; ASTM A53 GR B/ASTM A36
- Total length of column: ~32.9'
- 2" diamenter schedule 80 carbon steel enclosing tube maximum 5' lengths; ASTM A53 GR B
- Bronze bearing connectors; ASTM B505 C93200
- Water flush lubricated, enclosed Lineshaft,1-3/16" diameter shaft
- 416 SS threaded lineshaft and coupling; ASTM A582 S41600
- 316 SS column bolting
- Tagboard top column head gasket
- (1) coat of coal-tar epoxy on interior/exterior of column and exterior of enclosing tube, 8 mils DFT, color black.

Discharge head:
- 16.5"x10" Model "F" fabricated steel, above ground discharge head; ASTM A53 GR B/ASTM A36
- 10" 150# ANSI flat faced discharge flange
- 16.5" driver pedestal; ASTM A53 GR.B/ASTM A36
- Fabricated sole plate; ASTM A36
- Cast iron water flush packing box and packing gland; ASTM A48 CL30
- 18-8 steel gland bolts and nuts
- Metastream CPLR1625, Type II, flanged adjustable coupling
- Water flush assembly with pressure gauge, flow meter, pipe and fitting
- (1) coat of coal-tar epoxy on interior of discharge head, 8 mils DFT, color black.
- (1) coat of standard coating on exterior of discharge head, 3-5 mils DFT, color 1211 red.

Pump Dimensions:
- Overall pump setting measured from bottom of discharge head to lip of bell of approximately 432.24"

PENTAIR FLOW TECHNOLOGIES
Fairbanks Nijhuis
+1.913.371.5000 main
+1.913.371.4025 fax

3601 Fairbanks Avenue
P.O. Box 6999
Kansas City, KS 66106
United States
www.fairbanksnijhuis.com

Motor:
- VSS 75 HP at 1,800 RPM
- 3Ph/ 60Hz/ 460V
- TEFC enclosure; 365VP frame
- Premium efficient
- Inverter duty
- Direct On Line Start
- 16.5" base diameter
- Aegis ground ring
- Normally closed thermostats (1/phase)
- Non-witnessed short commercial test
- Non-witnessed complete initial test

Testing:
- None

Other features:
- None

Assembly:
- Ship pump assembled

Submittals, & O&M's:
- Submittals Level "1", electronic, emailed pdf

Spares:
- None

Factory Service:
- None - Field installation, startup, painting, training and testing are ***not*** included.

PENTAIR FLOW TECHNOLOGIES
Fairbanks Nijhuis
+1.913.371.5000 main
+1.913.371.4025 fax

3601 Fairbanks Avenue
P.O. Box 6999
Kansas City, KS 66106
United States
www.fairbanksnijhuis.com

Following Items are not included:

- Accessories such as additional plumbing, anchor bolts, nuts, fittings, air lines, control devices, pressure gauges, air and vacuum release valves, monitoring systems, grease or water lubrication systems, tools, and test equipment.
- Vibration limitations will be per Hydraulic Institute Standards.
- Piping - suction, discharge, gauge, vent, drain water seal systems.
- Interconnecting wiring, motor control centers, Installation of motors, mechanical seals, couplings or protective guards.
- Field installation, startup, painting, training and testing.

Schedule

Sumittals: **5 weeks from acceptance of PO to first submittal**
Shipment: **26 weeks from receipt of approved submittals to shipment (FCA KC, KS)**

Price as described above: **$110,995.00 USD Net**
Pump Weight, Each: **~2,700 Lb.**
Motor Weight, Each: **~920 Lb.**

Terms and Conditions of Sale:

Bid Price:

- Freight is included.
- Taxes or Duties are ***not*** included.
- One day Startup by HMS is included
- Prices are based on being allowed to ship and invoice upon readiness
- No Retention, 95% Net 30 on shipping, 5% Net 30 on Startup
- FCA Buckeye, AZ per Incoterms 2010 (FOB Factory)

Pricing is firm for the shipment(s) indicated, provided the included schedules are maintained.

Payment Terms: Terms & Conditions as noted. PO to be issued directly to HMS (Hennesy Mech Sales)

Bid Validity: This proposal is valid for an order for 30 days from the bid date and based on all conditions herein.

Warranty: 12 months after equipment start-up, and not to exceed 18 months after shipment.

If you have any questions regarding this proposal, please feel free to contact myself at your convenience.

Sincerely yours,

Luis Villegas
Application Engineer
Flow Technologies
Pentair Flow Technologies
3601 Fairbanks Ave.
Kansas City, KS 66106 USA
+1 913 748-4289 Office
+1 913 748-4028 Fax
luis.villegas@Pentair.com
www.pentair.com

James, Cooke & Hobson, Inc.

Sales Engineers

QUOTATION #: 20210607-03EJL

DATE: JUNE 7, 2021

TO: **PCL CONSTRUCTION**

ATTN: **JESUS ANGULO**

Job Name: **BUCKEYE CENTRAL WWTP BLOWER**

Location: BUCKEYE, AZ

Quoted By: ERIC LORING, PE

Bid Date: JUNE 10, 2021

Unless otherwise stated: Prices are firm for 30 days from bid date, payment terms are NET 30 DAYS from shipment. Prices do not include any sales and/or use taxes. Applicable taxes will be added to the invoice at the rate in effect at the time of shipment. Interest shall accrue on past due amounts of 1.5% per month. Freight terms are F.O.B. factory, full freight allowed.

QTY	Description	Each	Total

CENTRAL WWTP – REHABILITATION PROJECT

43 11 33 – ROTARY LOBE BLOWER SYSTEM

MANUFACTURER: **KAESER**

BLOWERS FOR AERATION BASINS
TAG: BLO-390, 1001, 2001 & 3001
REPLACE ONE (1) COMPLETE UNIT

1 KAESER OMEGA SERIES BLOWER PACKAGE
MODEL HB 1300 PI COMPLETE WITH:
460/3/60 VOLT, 250 HP, 3600 RPM, TEFC, VFD RATED,
PREMIUM EFFICIENT MOTOR AND SOUND ENCLOSURE.
BLOWER TO MATCH EXISTING PERFORMANCE OF
EXISTING MACHINES.

1 THERMISTOR TRIGGER/PTC RELAY

1 INTAKE FILTER (NON-WOVEN DN300)

1 V-BELT KIT 8 XPB 2840

LOT ANTI-FRICTION BEARING GREASE UNIREX N3

LOT OMEGA BLOWER 220 SYNTHETIC OIL

LOT START-UP (UP TO 2-TRIPS ON-SITE)

TOTAL PRICE FREIGHT INCLUDED
FOB FACTORY **$131,588.00**

DELIVERY SCHEDULE: BLOWER 22-24 WEEKS ARO

NOTES, CLARIFICATIONS & EXCEPTIONS:
BLOWER IS CURRENT PRODUCTION VERSION OF EXISTING MACHINE

NOTE: KAESER RECOMMENDS A ROOF AND HVAC FOR HE EXISTING BLOWER BUILDING TO PROLONG THE LIFE OF THE EQUIPMENT.

WE ARE NOT INCLUDING:
INSTALLATION, JUNCTION BOXES, BLOWER MASTER CONTROL PANEL/PLC, VFD'S, ANCHOR BOLTS OR SEISMIC ANCHOR BOLT CALCULATIONS, ANY ITEMS OUTSIDE OF THE BLOWER PACKAGE UNIT, OR ITEMS NOT EXPLICITLY DESCRIBED ABOVE.

PLEASE REVIEW OUR SCOPE OF SUPPLY CAREFULLY AND ADVISE IF WE ARE NOT COMPLETE WITH THE EQUIPMENT REQUIRED.

THANK YOU FOR THE OPPORTUNITY TO QUOTE THE ABOVE WORK!

Phone: (602) 243-0585 3501 E. BROADWAY ROAD PHOENIX, AZ 85040 Fax (602) 276-5402

QUOTATION #: 20210607-5EJL

DATE: JUNE 7, 2021

TO: **PCL CONSTRUCTION**

ATTN: **JESUS ANGULO**

Job Name: **BUCKEYE CENTRAL WWTP IMLR's**

Location: BUCKEYE, AZ

Quoted By: ERIC LORING, PE

Bid Date: JUNE 10, 2021

Unless otherwise stated: Prices are firm for 30 days from bid date, payment terms are NET 30 DAYS from shipment. Prices do not include any sales and/or use taxes. Applicable taxes will be added to the invoice at the rate in effect at the time of shipment. Interest shall accrue on past due amounts of 1.5% per month. Freight terms are F.O.B. factory, full freight allowed.

QTY	Description	Each	Total

CENTRAL WWTP – REHABILITATION PROJECT

MANUFACTURER: **FLYGT** (AS SPECIFIED)

MIXED LIQUOR PUMPS
TAG NO'S: 3-05-MLRP-6, 3-05-MLRP-7, 3-05-MLRP-8

3 FLYGT MODEL NZ-3171 SERIES HORIZONTAL SUBMERSIBLE DRY-PIT PUMPS WITH HARD-IRON MATERIALS OF CONSTRUCTION, 25 HP, 1160 RPM, 460/3/60 INVERTER DUTY RATED MOTORS.

EACH INSTALLED PUMP SHALL BE SUPPLIED WITH: HORIZONTAL PUMP KIT, SERVICE CART AND RAIL SYSTEM, 10-INCH (304 SS) TELESCOPING SUCTION INLET PIPE CONNECTION, 50 FEET OF POWER CABLE, FLS (SEAL LEAKAGE AND TEMPERATURE PROTECTION SWITCH).

3 FLYGT MINI-CAS (MOISTURE AND OVER TEMPERATURE RELAYS (TO BE INSTALLED INTO PUMP CONTROL PANEL)

LOT REVIEW AND SUPPORT OF FLYGT MINI-CAS INTO EXISTING WIRE LOGIC FOR PROPER PUMP SHUTDOWN WITH SEAL LEAKAGE OR MOTOR OVER-TEMP CONDITION

CONTINUED…

LOT SPARE PARTS
NONE SPECIFIED, NONE QUOTED
NO SPECIAL TOOLS REQUIRED, NONE QUOTED

LOT SUBMITTALS, O&M MANUALS, TRAINING
START-UP SERVICE (2-TRIPS, 2 DAYS, 1 MAN)

TOTAL PRICE FREIGHT INCLUDED
FOB FACTORY **$99,888.00**

DELIVERY SCHEDULE:			
	SUBMITTALS	1-2	WEEKS
	PUMPS	10-12	WEEKS ARO
	ACCESSORIES	9-11	WEEKS ARO

NOTES, CLARIFICATION, EXCEPTIONS:

1.) PUMPS TO MIMIC HYDRAULIC PERFORMANCE PROVIDE BY PCL FOR SECTION 11326 FROM 2010 PROJECT WITH PCL.
2.) ONE (1) COMMON LIFTING APPARATUS TO BE PROVIDED FOR USE WITH ALL THREE (3) PUMP ASSEMBLIES

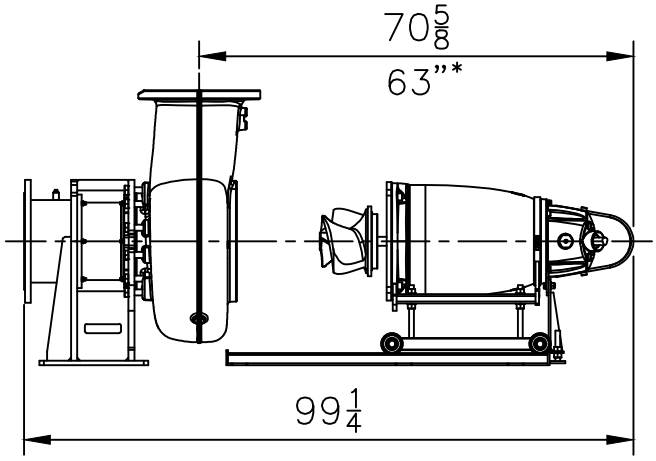
WE ARE NOT INCLUDING:
INSTALLATION, SPARE PARTS, ANCHOR BOLTS, SEISMIC CALCS, SPECIAL COATINGS OTHER THAN FLYGT STANDARD FOR WASTEWATER APPLICATIONS, JUNCTION BOXES, KELLUM OR PUMP POWER CABLE SUPPORT GRIPS, PRESSURE GAUGES, SPECIAL PUMP TESTING OTHER THAN FLYGT STANDARD, SPECIAL EQUIPMENT ID TAGS, OR ITEMS NOT EXPLICITLY DESCRIBED ABOVE.

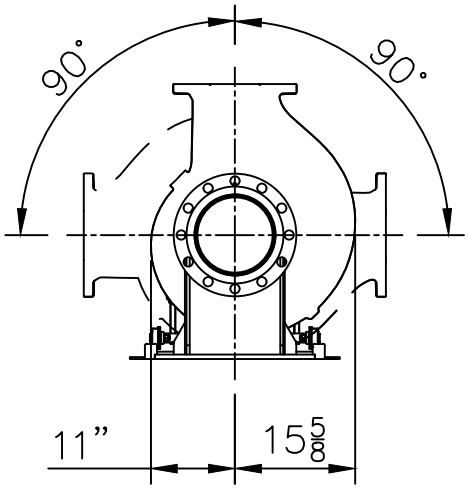
PLEASE REVIEW OUR SCOPE OF SUPPLY CAREFULLY AND ADVISE IF WE ARE NOT COMPLETE WITH THE EQUIPMENT REQUIRED.

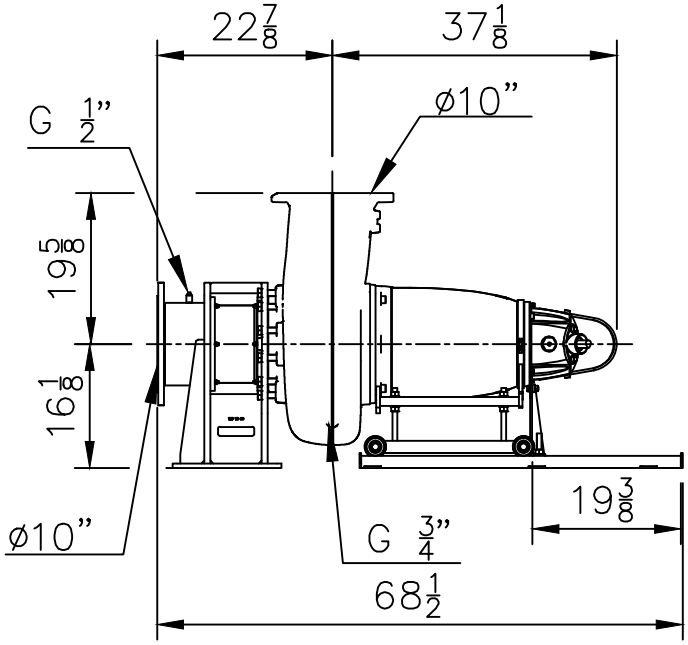
THANK YOU FOR THE OPPORTUNITY TO QUOTE THE ABOVE WORK!

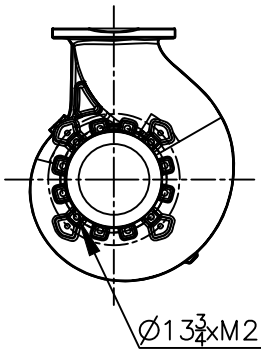
Phone: (602) 243-0585 3501 E. BROADWAY ROAD PHOENIX, AZ 85040 Fax (602) 276-5402

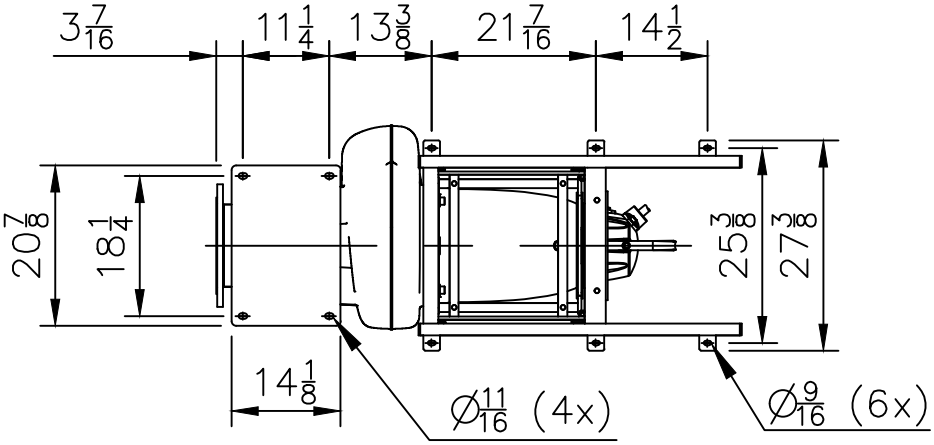
Pump, Motor, Carts, Rails and Telescoping Inlet ALL Included with EACH Pump Assembly in Quote

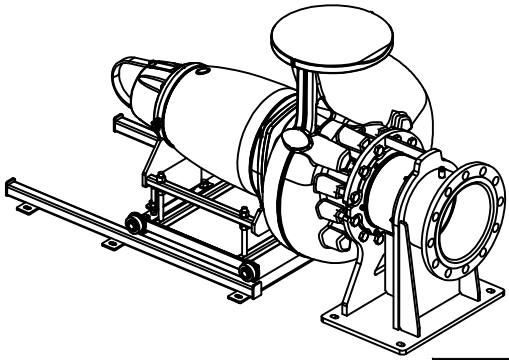












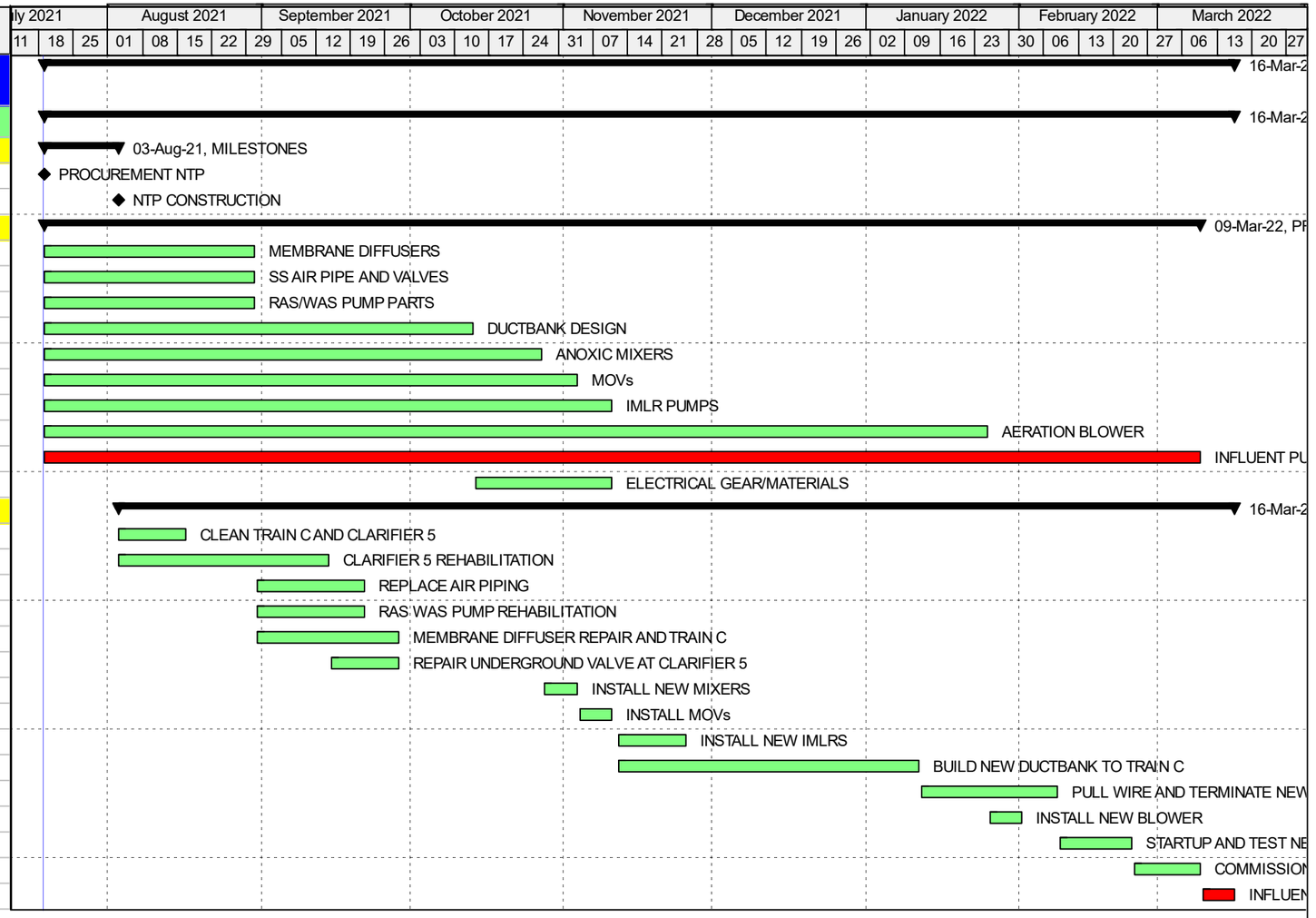
* Minimum protracting distance to lift drive unit straight up without hitting pump housing

Weight	Pump	Stand	Service cart	Rail
lbs	930	230	45	25

FLYGT	NZ	3171	LT	Service cart	Discharge outlet	Scale 1:25	Date 190625
	091,095,181,185				Pump outlet ø10"	Drawing number 7785701	R
					Pump inlet ø10"		
					Suction inlet ø10"		

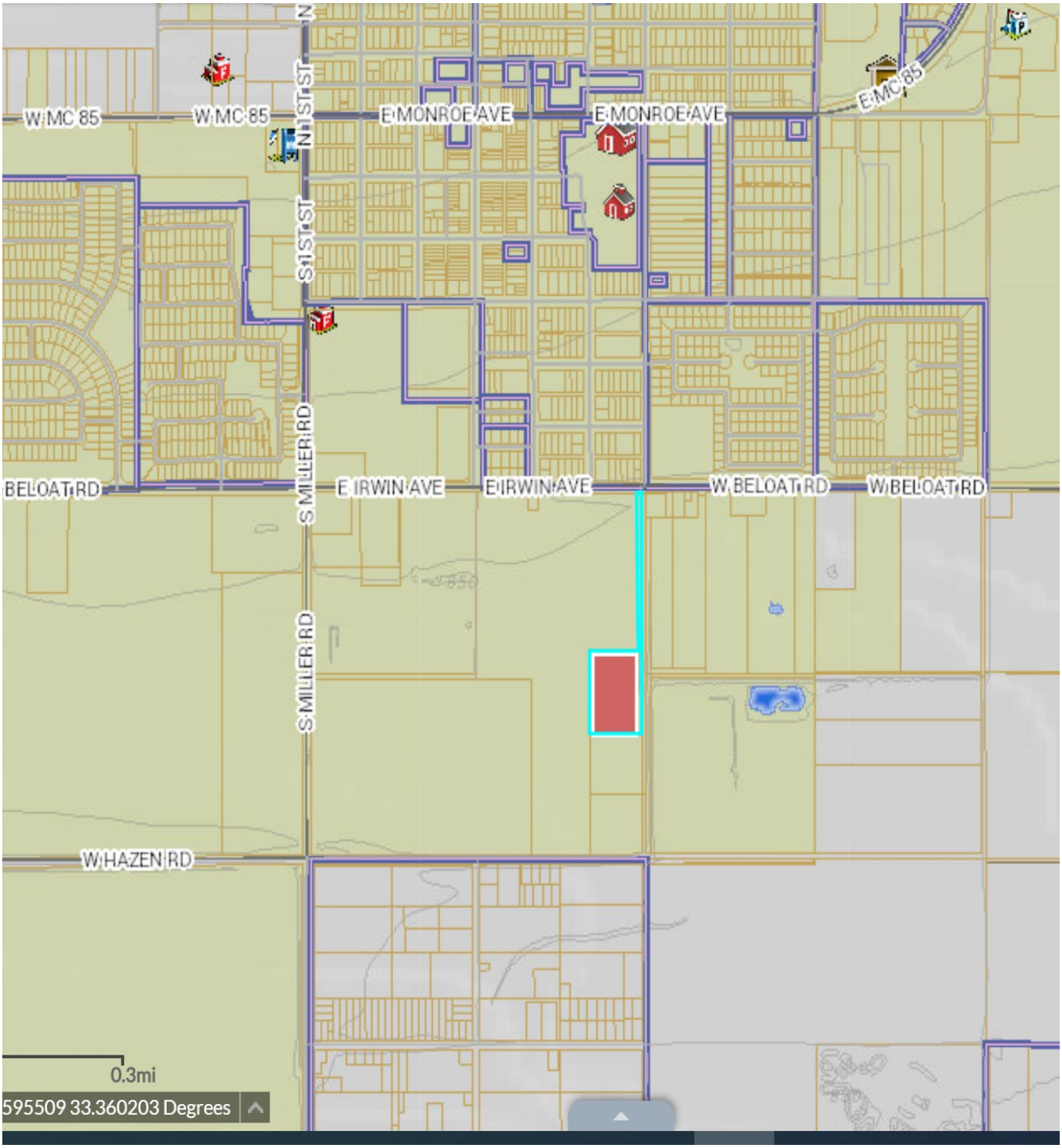
Phase II Central WRF Rehab
Contract No. 2019012.04 - DO #8
PCL Construction, Inc.

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish
BUCKEYE CENTRAL WRF TRAIN C		165	165	19-Jul-21	16-Mar-22
TRAIN C REHABILITATION		165	165	19-Jul-21	16-Mar-22
MILESTONES		10	10	19-Jul-21	03-Aug-21
A1000	PROCUREMENT NTP	0	0	19-Jul-21	
A1010	NTP CONSTRUCTION	0	0	03-Aug-21	
PROCUREMENT		160	160	19-Jul-21	09-Mar-22
A1030	MEMBRANE DIFFUSERS	30	30	19-Jul-21	30-Aug-21
A1040	SS AIR PIPE AND VALVES	30	30	19-Jul-21	30-Aug-21
A1110	RAS/WAS PUMP PARTS	30	30	19-Jul-21	30-Aug-21
A1080	DUCTBANK DESIGN	60	60	19-Jul-21	13-Oct-21
A1060	ANOXIC MIXERS	70	70	19-Jul-21	27-Oct-21
A1050	MOVs	75	75	19-Jul-21	03-Nov-21
A1070	IMLR PUMPS	80	80	19-Jul-21	10-Nov-21
A1100	AERATION BLOWER	130	130	19-Jul-21	25-Jan-22
A1020	INFLUENT PUMP #1	160	160	19-Jul-21	09-Mar-22
A1090	ELECTRICAL GEAR/MATERIALS	20	20	14-Oct-21	10-Nov-21
CONSTRUCTION		155	155	03-Aug-21	16-Mar-22
A1120	CLEAN TRAIN C AND CLARIFIER 5	10	10	03-Aug-21	16-Aug-21
A1200	CLARIFIER 5 REHABILITATION	30	30	03-Aug-21	14-Sep-21
A1150	REPLACE AIR PIPING	15	15	31-Aug-21	21-Sep-21
A1210	RAS WAS PUMP REHABILITATION	15	15	31-Aug-21	21-Sep-21
A1140	MEMBRANE DIFFUSER REPAIR AND TRAIN C	20	20	31-Aug-21	28-Sep-21
A1260	REPAIR UNDERGROUND VALVE AT CLARIFIER 5	10	10	15-Sep-21	28-Sep-21
A1170	INSTALL NEW MIXERS	5	5	28-Oct-21	03-Nov-21
A1160	INSTALL MOVs	5	5	04-Nov-21	10-Nov-21
A1180	INSTALL NEW IMLRS	10	10	12-Nov-21	25-Nov-21
A1190	BUILD NEW DUCTBANK TO TRAIN C	40	40	12-Nov-21	11-Jan-22
A1220	PULL WIRE AND TERMINATE NEW ELECTRICAL TRAIN C	20	20	12-Jan-22	08-Feb-22
A1250	INSTALL NEW BLOWER	5	5	26-Jan-22	01-Feb-22
A1230	STARTUP AND TEST NEW EQUIPMENT TRAIN C	10	10	09-Feb-22	23-Feb-22
A1240	COMMISSIONING OF TRAIN C	10	10	24-Feb-22	09-Mar-22
A1130	INFLUENT PUMP #1 REPLACEMENT	5	5	10-Mar-22	16-Mar-22



Actual Work
Remaining Work
Critical Remaining Work
Milestone
Summary

BUCKEYE CENTRAL WRF TRAIN C IMPROVEMENTS - BASELINE


W MC 85
W MC 85
N 1ST ST
E MONROE AVE
E MONROE AVE
E MC 85
S 1ST ST
S MILLER RD
BELOAT RD
E IRWIN AVE
E IRWIN AVE
W BELOAT RD
W BELOAT RD
S MILLER RD
W HAZEN RD
0.3mi
595509 33.360203 Degrees

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.J. Hill Brothers Water Chemicals
DATE PREPARED: 08/12/21	**DISTRICT NO.:** ALL
STAFF LIAISON: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225	
DEPARTMENT: Construction and Contracting	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council) Council to take action on the expenditure of not to exceed $186,000 related to the purchase of chemicals for the disinfection process for water treatment for Fiscal Year 2021-2022 through Hill Brothers Chemical Company, a California corporation.

RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

SUMMARY

PROJECT DESCRIPTION:
Water Production is requesting approval to purchase chemicals to treat drinking water utilizing Buckeye's Contract No. 2018014 (Hill Brothers Chemicals) Expiration-09/18/23. The purchase of chemicals will allow the Water Resources Department to properly treat and disinfect drinking to stay in compliance with EPA standards. Not to exceed $186,000.

BENEFITS:
Staff can continue to properly treat drinking water to meet EPA standards. With the increase in water production, the amount of chemical usage will continue to increase.

FUTURE ACTION:
Plan for increased chemical usage with the increase of water production in the future.

FINANCIAL IMPACT STATEMENT:

Current Fiscal Year Total Cost (as reflected in motion)

40003212-521540 - $4,000

40003213-521540 - $50,000

40003214-521540 - $4,500

40003215-521540 - $5,500

40003216-521540 - $65,000

40003217-521540 - $500

40013218-521540 - $55,000

40013219-521540 - $1,500

CURRENT FISCAL YEAR TOTAL COST:
$186,000

BUDGETED:
Yes

FISCAL YEAR:
2021/2022

FUND/DEPARTMENT:
Multiple

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
Hill Brother FE 09.18.18 Contract #2018014.pdf

CONTRACT FOR GOODS AND SERVICES
BETWEEN
THE CITY OF BUCKEYE
AND
HILL BROTHERS

CONTRACT# 2018014

THIS CONTRACT FOR GOODS AND SERVICES (this "Contract") is made by and between the City of Buckeye, an Arizona municipal corporation (the "City") and Hill Brothers Chemical Company, (the "Vendor").

RECITALS

A. The City issued a Request for Proposals entitled "Water/Wastewater Treatment Chemicals (No. 418004)" (the "RFP"), attached hereto as Exhibit A and incorporated herein by reference, seeking proposals from vendors interested in providing professional water and wastewater treatment chemical goods.

B. The Vendor submitted a proposal in response to the RFP (the "Proposal"), attached hereto as Exhibit B and incorporated herein by reference, and the City desires to enter into a Contract with the Vendor for the Vendor to provide water and wastewater treatment chemicals (the "Goods").

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing recitals, which are incorporated herein by reference, the following mutual covenants and conditions, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the City and the Vendor hereby agree as follows:

1. Term of Contract. This Contract shall be effective as of the date fully executed by the City and shall remain in effect for a period of two (2) years thereafter, (the "initial Term"), unless terminated as otherwise provided pursuant to the terms and conditions of this Contract. After the expiration of the Initial term, this Contract shall automatically be extended for up to (3) three successive one (1) year periods; (each a "Renewal Term"); provided however, that the City and/or the Vendor may opt to decline extension of the contract by providing notification in writing at least thirty (30) calendar days prior to the annual automatic extension anniversary of the initial term. If (i) it is deemed in the best interest of the City, subject to availability and appropriation of funds for renewal in each subsequent year, (ii) at least 30 days prior to the end of the then-current term of the Contract, the Vendor approves the additional one-year term in writing (including any price adjustments approved as part of this Contract), as evidenced by the City Manager's signature thereon, which approval may be withheld by the City for any reason. The Vendor's failure to seek a renewal of this Contract shall cause the Contract to terminate at the end of the then-current term of this Contract; provided, however, that the City may, at its discretion and with the Contract of the Vendor, elect to waive this requirement and renew this Contract. The Initial Term and any Renewal Term(s) are collectively referred to herein as the

"Term." Upon renewal, the terms and conditions of this Contract shall remain in full force and effect.

2. Scope of Work. The Vendor shall provide the Services as set forth in the Scope of Work, attached hereto as Exhibit A and incorporated herein by reference.

3. Compensation. The City shall pay Vendor for goods and services as set forth on the Price Proposal Sheet, attached hereto as Exhibit C and incorporated herein by reference.

4. Payments. The City shall pay the Vendor per order placed, based upon goods delivered and received to date, and upon submission and approval of invoices. All invoices shall document and itemize all items received on each individual order placed.

5. Documents. All documents prepared and submitted to the City pursuant to this Contract shall be the property of the City.

6. Vendor Personnel. The Vendor shall provide adequate, experienced personnel, capable of and devoted to the successful completion of the purchase of goods under this Contract.

7. Inspection; Acceptance. All goods shall be subject to inspection and acceptance by the City at reasonable times during the Vendor's performance.

8. Licenses; Materials. The Vendor shall maintain in current status all federal, state and local licenses and permits required for the operation of the business conducted by the Vendor. The City has no obligation to provide the Vendor, its employees or subcontractors any business registrations or licenses required to perform the specific services set forth in this Contract. The City has no obligation to provide tools, equipment or material to the Vendor.

9. Performance Warranty. The Vendor warrants that the goods and services rendered will conform to the requirements of this Contract and to the highest professional standards in the field.

10. Indemnification. To the fullest extent permitted by law, the Vendor shall indemnify, defend and hold harmless the City and each council member, officer, employee or agent thereof (the City and any such person being herein called an "Indemnified Party"), for, from and against any and all losses, claims, damages, liabilities, costs and expenses (including, but not limited to, reasonable attorneys' fees, court costs and the costs of appellate proceedings) to which any such Indemnified Party may become subject, under any theory of liability whatsoever ("Claims"), insofar as such Claims (or actions in respect thereof) relate to, arise out of, or are caused by or based upon the negligent acts, intentional misconduct, errors, mistakes or omissions, in connection with the work or services of the Vendor, its officers, employees, agents, or any tier of subcontractor in the performance of this Contract. The amount and type of insurance coverage requirements set forth below will in no way be construed as limiting the scope of the indemnity in this Section.

11. Insurance.

11.1 General.

A. Insurer Qualifications. Without limiting any obligations or liabilities of the Vendor, the Vendor shall purchase and maintain, at its own expense, hereinafter stipulated minimum insurance with insurance companies duly licensed by the State of Arizona with an AM Best, Inc. rating of A- or above with policies and forms satisfactory to the City. Failure to maintain insurance as specified herein may result in termination of this Contract at the City's option.

B. No Representation of Coverage Adequacy. By requiring insurance herein, the City does not represent that coverage and limits will be adequate to protect the Vendor. The City reserves the right to review any and all of the insurance policies and/or endorsements cited in this Contract but has no obligation to do so. Failure to demand such evidence of full compliance with the insurance requirements set forth in this Contract or failure to identify any insurance deficiency shall not relieve the Vendor from, nor be construed or deemed a waiver of, its obligation to maintain the required insurance at all times during the performance of this Contract.

C. Additional Insured. All insurance coverage and self-insured retention or deductible portions, except Workers' Compensation insurance and Professional Liability insurance, if applicable, shall name, to the fullest extent permitted by law for claims arising out of the performance of this Contract, the City, its agents, representatives, officers, directors, officials and employees as Additional Insured as specified under the respective coverage Parts of this Contract.

D. Coverage Term. All insurance required herein shall be maintained in full force and effect until all work or services required to be performed under the terms of this Contract are satisfactorily performed, completed and formally accepted by the City, unless specified otherwise in this Contract.

E. Primary Insurance. The Vendor's insurance shall be primary insurance with respect to performance of this Contract and in the protection of the City as an Additional Insured.

F. Waiver. All policies, except for Professional Liability, including Workers' Compensation insurance, shall contain a waiver of rights of recovery (subrogation) against the City, its agents, representatives, officials, officers and employees for any claims arising out of the work or services of the Vendor. The Vendor shall arrange to have such subrogation waivers incorporated into each policy via formal written endorsement thereto.

G. Policy Deductibles and/or Self-Insured Retentions. The policies set forth in these requirements may provide coverage that contains deductibles or self-insured retention amounts. Such deductibles or self-insured retention shall not be applicable with respect to the policy limits provided to the City. The Vendor shall be solely responsible for any such deductible or self-insured retention amount.

H. Use of Subcontractors. If any work under this Contract is subcontracted in any way, the Vendor shall execute written Contracts with its subcontractors containing the indemnification provisions set forth in this Section and insurance requirements set forth herein protecting the City and the Vendor. The Vendor shall be responsible for executing any Contracts with its subcontractors and obtaining certificates of insurance verifying the insurance requirements.

I. Evidence of Insurance. Prior to commencing any work or services under this Contract, the Vendor will provide the City with suitable evidence of insurance in the form of certificates of insurance and a copy of the declaration page(s) of the insurance policies as required by this Contract, issued by the Vendor's insurance insurer(s) as evidence that policies are placed with acceptable insurers as specified herein and provide the required coverages, conditions and limits of coverage specified in this Contract and that such coverage and provisions are in full force and effect. Confidential information such as the policy premium may be redacted from the declaration page(s) of each insurance policy, provided that such redactions do not alter any of the information required by this Contract. The City shall reasonably rely upon the certificates of insurance and declaration page(s) of the insurance policies as evidence of coverage but such acceptance and reliance shall not waive or alter in any way the insurance requirements or obligations of this Contract. In the event any insurance policy required by this Contract is written on a "claims made" basis, coverage shall extend for two years past completion of the Services and the City's acceptance of the Vendor's work or services and as evidenced by annual certificates of insurance. If any of the policies required by this Contract expire during the life of this Contract, it shall be the Vendor's responsibility to forward renewal certificates and declaration page(s) to the City 30 days prior to the expiration date. All certificates of insurance and declarations required by this Contract shall be identified by referencing the Contract number and title of this Contract. A $25.00 administrative fee shall be assessed for all certificates or declarations received without the appropriate Contract number and title or a reference to this Contract, as applicable. Additionally, certificates of insurance and declaration page(s) of the insurance policies submitted without referencing the appropriate Contract number and title or reference to this Contract, as applicable, will be subject to rejection and may be returned or discarded. Certificates of insurance and declaration page(s) shall specifically include the following provisions:

(1) The City, its agents, representatives, officers, directors, officials and employees are Additional Insureds as follows:

(a) Commercial General Liability - Under Insurance Services Office, Inc., ("ISO") Form CG 20 10 03 97 or equivalent.

(b) Auto Liability - Under ISO Form CA 20 48 or equivalent.

(c) Excess Liability - Follow Form to underlying insurance.

(2) The Vendor's insurance shall be primary insurance as respects performance of the Contract.

(3) All policies, except for Professional Liability, including Workers' Compensation, waive rights of recovery (subrogation) against the City, its agents, representatives, officers, officials and employees for any claims arising out of work or services performed by the Vendor under this Contract.

(4) A 30-day advance notice cancellation provision. If ACORD certificate of insurance form is used, the phrases in the cancellation provision "endeavor to" and "but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives" shall be deleted. Certificate forms other than ACORD form shall have similar restrictive language deleted.

11.2 Required Insurance Coverage.

A. Commercial General Liability. The Vendor shall maintain "occurrence" form Commercial General Liability insurance with an unimpaired limit of not less than $1,000,000 for each occurrence, $2,000,000 Products and Completed Operations Annual Aggregate and a $2,000,000 General Aggregate Limit. The policy shall cover liability arising from premises, operations, independent Vendors, products-completed operations, personal injury and advertising injury. Coverage under the policy will be at least as broad as ISO policy form CG 00 010 93 or equivalent thereof, including but not limited to, separation of insured's clause. To the fullest extent allowed by law, for claims arising out of the performance of this Contract, the City, its agents, representatives, officers, officials and employees shall be cited as an Additional Insured under ISO, Commercial General Liability Additional Insured Endorsement form CG 20 10 03 97, or equivalent, which shall read "Who is an Insured (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of "your work" for that insured by or for you." If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.

B. Vehicle Liability. The Vendor shall maintain Business Automobile Liability insurance with a limit of $1,000,000 each occurrence on the Vendor's owned, hired and non-owned vehicles assigned to or used in the performance of the Vendor's work or services under this Contract. Coverage will be at least as broad as ISO coverage code "1" "any auto" policy form CA 00 01 12 93 or equivalent thereof. To the fullest extent allowed by law, for claims arising out of the performance of this Contract, the City, its agents, representatives, officers, directors, officials and employees shall be cited as an Additional Insured under ISO Business Auto policy Designated Insured Endorsement form CA 20 48 or equivalent. If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.

C. Professional Liability. If this Contract is the subject of any professional services or work, or if the Vendor engages in any professional services or work adjunct or residual to performing the work under this Contract, the Vendor shall maintain

Professional Liability insurance covering negligent errors and omissions arising out of the Services performed by the Vendor, or anyone employed by the Vendor, or anyone for whose negligent acts, mistakes, errors and omissions the Vendor is legally liable, with an unimpaired liability insurance limit of $2,000,000 each claim and $2,000,000 annual aggregate. In the event the Professional Liability insurance policy is written on a "claims made" basis, coverage shall extend for two years past completion and acceptance of the Services, and the Vendor shall be required to submit certificates of insurance and a copy of the declaration page(s) of the insurance policies evidencing proper coverage is in effect as required above.

D. Workers' Compensation Insurance. The Vendor shall maintain Workers' Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction over the Vendor's employees engaged in the performance of work or services under this Contract and shall also maintain Employers Liability Insurance of not less than $500,000 for each accident, $500,000 disease for each employee and $1,000,000 disease policy limit.

11.3 Cancellation and Expiration Notice. Insurance required herein shall not expire, be canceled, or materially change without 30 days' prior written notice to the City.

12. Applicable Law; Venue. In the performance of this Contract, the Vendor shall abide by and conform to any and all laws of the United States, State of Arizona and the City of Buckeye, including but not limited to, federal and state executive orders providing for equal employment and procurement opportunities, the Federal Occupational Safety and Health Act and any other federal or state laws applicable to this Contract. This Contract shall be governed by the laws of the State of Arizona and suit pertaining to this Contract may be brought only in courts in the State of Arizona.

13. Termination; Cancellation.

13.1 For City's Convenience. This Contract is for the convenience of the City and, as such, may be terminated without cause after receipt by the Vendor of written notice by the City. Upon termination for convenience, the Vendor shall be paid for all undisputed services performed to the termination date.

13.2 For Cause. This Contract may be terminated by either party upon 30 days' written notice should the other party fail to substantially perform in accordance with this Contract's terms, through no fault of the party initiating the termination.

13.3 Due to Work Stoppage. This Contract may be terminated by the City upon 30 days' written notice to the Vendor in the event that the Services are permanently abandoned. In the event of such termination due to work stoppage, payment shall be made by the City to the Vendor for the undisputed portion of its fee due as of the termination date.

13.4 Conflict of Interest. This Contract is subject to the provisions of ARIZ. REV. STAT. § 38-511. The City may cancel this Contract without penalty or further obligations by the City or any of its departments or agencies if any person significantly involved in initiating,

negotiating, securing, drafting or creating this Contract on behalf of the City or any of its departments or agencies is, at any time while the Contract or any extension of the Contract is in effect, an employee of any other party to the Contract in any capacity or a Vendor to any other party of the Contract with respect to the subject matter of the Contract.

13.5 Gratuities. The City may, by written notice to the Vendor, cancel this Contract if it is found by the City that gratuities, in the form of economic opportunity, future employment, entertainment, gifts or otherwise, were offered or given by the Vendor or any agent or representative of the Vendor to any officer, agent or employee of the City for the purpose of securing this Contract. In the event this Contract is cancelled by the City pursuant to this provision, the City shall be entitled, in addition to any other rights and remedies, to recover or withhold from the Vendor an amount equal to 150% of the gratuity.

13.6 Contract Subject to Appropriation. The provisions of this Contract for payment of funds by the City shall be effective when funds are appropriated for purposes of this Contract and are actually available for payment. The City shall be the sole judge and authority in determining the availability of funds under this Contract and the City shall keep the Vendor fully informed as to the availability of funds for the Contract. The obligation of the City to make any payment pursuant to this Contract is a current expense of the City, payable exclusively from such annual appropriations, and is not a general obligation or indebtedness of the City. If the City Council fails to appropriate money sufficient to pay the amounts as set forth in this Contract during any immediately succeeding fiscal year, this Contract shall terminate at the end of then-current fiscal year and the City and the Vendor shall relieved of any subsequent obligation under this Contract.

14. Miscellaneous.

14.1 Independent Contractor. The Vendor acknowledges and agrees that the Services provided under this Contract are being provided as an independent contractor, not as an employee or agent of the City. The Vendor, its employees and subcontractors are not entitled to workers' compensation benefits from the City. The City does not have the authority to supervise or control the actual work of the Vendor, its employees or subcontractors. The Vendor, and not the City, shall determine the time of its performance of the services provided under this Contract so long as the Vendor meets the requirements of its agreed Scope of Work as set forth in Section 2 above. The Vendor is neither prohibited from entering into other contracts nor prohibited from practicing its profession elsewhere. The City and the Vendor do not intend to nor will they combine business operations under this Contract.

14.2 Laws and Regulations. The Vendor shall keep fully informed and shall at all times during the performance of its duties under this Contract ensure that it and any person for whom the Vendor is responsible remains in compliance with all rules, regulations, ordinances, statutes or laws affecting the Services, including the following: (A) existing and future City and County ordinances and regulations, (B) existing and future state and federal laws and (C) existing and future Occupational Safety and Health Administration ("OSHA") standards.

14.3 Amendments. This Contract may be modified only by a written amendment signed by persons duly authorized to enter into contracts on behalf of the City and the Vendor.

14.4 Provisions Required by Law. Each and every provision of law and any clause required by law to be in the Contract will be read and enforced as though it were included herein and, if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, the Contract will promptly be physically amended to make such insertion or correction.

14.5 Severability. The provisions of this Contract are severable to the extent that any provision or application held to be invalid by a Court of competent jurisdiction shall not affect any other provision or application of the Contract which may remain in effect without the invalid provision or application.

14.6 Relationship of the Parties. It is clearly understood that each party will act in its individual capacity and not as an agent, employee, partner, joint venturer, or associate of the other. An employee or agent of one party shall not be deemed or construed to be the employee or agent of the other for any purpose whatsoever. The Vendor is advised that taxes or Social Security payments will not be withheld from any City payments issued hereunder and the Vendor agrees to be fully and solely responsible for the payment of such taxes or any other tax applicable to this Contract.

14.7 Entire Contract; Interpretation; Parol Evidence. This Contract represents the entire Contract of the parties with respect to its subject matter, and all previous Contracts, whether oral or written, entered into prior to this Contract are hereby revoked and superseded by this Contract. No representations, warranties, inducements or oral Contracts have been made by any of the parties except as expressly set forth herein, or in any other contemporaneous written Contract executed for the purposes of carrying out the provisions of this Contract. This Contract shall be construed and interpreted according to its plain meaning, and no presumption shall be deemed to apply in favor of, or against the party drafting the Contract. The parties acknowledge and agree that each has had the opportunity to seek and utilize legal counsel in the drafting of, review of, and entry into this Contract.

14.8 Assignment. No right or interest in this Contract shall be assigned by the Vendor without prior, written permission of the City signed by the City Manager and no delegation of any duty of the Vendor shall be made without prior, written permission of the City signed by the City Manager. Any attempted assignment or delegation by the Vendor in violation of this provision shall be a breach of this Contract by the Vendor.

14.9 Subcontracts. No subcontract shall be entered into by the Vendor with any other party to furnish any of the material or services specified herein without the prior written approval of the City. The Vendor is responsible for performance under this Contract whether or not subcontractors are used.

14.10 Rights and Remedies. No provision in this Contract shall be construed, expressly or by implication, as waiver by the City of any existing or future right and/or remedy available by law in the event of any claim of default or breach of this Contract. The failure of the City to insist upon the strict performance of any term or condition of this Contract or to exercise or delay the exercise of any right or remedy provided in this Contract, or by law, or the City's acceptance of and payment for services, shall not release the Vendor from any responsibilities or obligations imposed by this Contract or by law, and shall not be deemed a waiver of any right of the City to insist upon the strict performance of this Contract.

14.11 Attorneys' Fees. In the event either party brings any action for any relief, declaratory or otherwise, arising out of this Contract or on account of any breach or default hereof, the prevailing party shall be entitled to receive from the other party reasonable attorneys' fees and reasonable costs and expenses, determined by the court sitting without a jury, which shall be deemed to have accrued on the commencement of such action and shall be enforced whether or not such action is prosecuted through judgment.

14.12 Liens. All materials or services shall be free of all liens and, if the City requests, a formal release of all liens shall be delivered to the City.

14.13 E-Verify Requirements. To the extent applicable under ARIZ. REV. STAT. §41-4401, the Vendor and its subcontractors warrant compliance with all federal immigration laws and regulations that relate to their employees and compliance with the E-verify requirements under ARIZ. REV. STAT. §23-214(A). The Vendor's or its subcontractor's failure to comply with such warranty shall be deemed a material breach of this Contract and may result in the termination of this Contract by the City.

14.14 Offset.

A. Offset for Damages. In addition to all other remedies at law or equity, the City may offset from any money due to the Vendor any amounts the Vendor owes to the City for damages resulting from breach or deficiencies in performance or breach of any obligation under this Contract.

B. Offset for Delinquent Fees or Taxes. The City may offset from any money due to the Vendor any amounts the Vendor owes to the City for delinquent fees, transaction privilege taxes and property taxes, including any interest or penalties.

14.15 Notices and Requests. Any notice or other communication required or permitted to be given under this Contract shall be in writing and shall be deemed to have been duly given if (A) delivered to the party at the address set forth below, (B) deposited in the U.S. Mail, registered or certified, return receipt requested, to the address set forth below, (C) given to a recognized and reputable overnight delivery service, to the address set forth below or (D) delivered by facsimile transmission to the number set forth below:

If to the City: CITY OF BUCKEYE
530 East Monroe Avenue

Buckeye, Arizona 85326
Facsimile: (623) 349-6098
Attn: Chris Williams, Manager,
Construction and Contracting Division

With copy to: GUST ROSENFELD, P.L.C.
One East Washington Street, Suite 1600
Phoenix, Arizona 85004-2553
Facsimile: (602) 254-4878

If to Vendor: Hill Brothers Chemical
21639 N 12th Avenue, Suite 100
Phoenix, AZ 85027
Attn: Michael Zaragoza

or at such other address, and to the attention of such other person or officer, as any party may designate in writing by notice duly given pursuant to this subsection. Notices shall be deemed received (A) when delivered to the party, (B) three business days after being placed in the U.S. Mail, properly addressed, with sufficient postage, (C) the following business day after being given to a recognized overnight delivery service, with the person giving the notice paying all required charges and instructing the delivery service to deliver on the following business day, or (D) when received by facsimile transmission during the normal business hours of the recipient. If a copy of a notice is also given to a party's counsel or other recipient, the provisions above governing the date on which a notice is deemed to have been received by a party shall mean and refer to the date on which the party, and not its counsel or other recipient to which a copy of the notice may be sent, is deemed to have received the notice.

14.16 Confidentiality of Records. The Vendor shall establish and maintain procedures and controls that are acceptable to the City for the purpose of ensuring that information contained in its records or obtained from the City or from others in carrying out its obligations under this Contract shall not be used or disclosed by it, its agents, officers, or employees, except as required to perform the Vendor's duties under this Contract. Persons requesting such information should be referred to the City. The Vendor also agrees that any information pertaining to individual persons shall not be divulged other than to employees or officers of the Vendor as needed for the performance of duties under this Contract.

14.17 Records and Audit Rights. The Vendor's and its subcontractor's books, records, correspondence, accounting procedures and practices, and any other supporting evidence relating to this Contract, including the papers of any Vendor and its subcontractors' employees who perform any work or Services pursuant to this Contract to ensure that the Vendor and its subcontractors are complying with the warranty under subsection 14.18 below (all the foregoing hereinafter referred to as "Records"), shall be open to inspection and subject to audit and/or reproduction during normal working hours by the City, to the extent necessary to adequately permit (A) evaluation and verification of any invoices, payments or claims based on the Vendor's and its subcontractors' actual costs (including direct and indirect costs and overhead allocations) incurred, or units expended directly in the performance of work under this

Contract and (B) evaluation of the Vendor's and its subcontractors' compliance with the Arizona employer sanctions laws referenced in subsection 14.18 below. To the extent necessary for the City to audit Records as set forth in this subsection, the Vendor and its subcontractors hereby waive any rights to keep such Records confidential. For the purpose of evaluating or verifying such actual or claimed costs or units expended, the City shall have access to said Records, even if located at its subcontractors' facilities, from the effective date of this Contract for the duration of the work and until three years after the date of final payment by the City to the Vendor pursuant to this Contract. The Vendor and its subcontractors shall provide the City with adequate and appropriate workspace so that the City can conduct audits in compliance with the provisions of this subsection. The City shall give the Vendor or its subcontractors reasonable advance notice of intended audits. The Vendor shall require its subcontractors to comply with the provisions of this subsection by insertion of the requirements hereof in any subcontract pursuant to this Contract.

14.18 Conflicting Terms. In the event of any inconsistency, conflict or ambiguity among the terms of the Contract, the Scope of Work, the Fee Proposal, the RFP and the Vendor's Proposal, the documents shall govern in the order listed herein.

14.19 Non-Exclusive Contract. This Contract is entered into with the understanding and Contract that it is for the sole convenience of the City. The City reserves the right to obtain like goods and services from another source when necessary.

14. 20 Cooperative Purchasing. Specific eligible political subdivisions and nonprofit educational or public health institutions ("Eligible Procurement Unit(s) ") are permitted to utilize procurement Contracts developed by the City, at their discretion and with the Contract of the awarded Vendor. Vendor may, at its sole discretion, accept orders from Eligible Procurement Unit(s) for the purchase of the Materials and/or Services at the prices and under the terms and conditions of this Contract, in such quantities and configurations as may be agreed upon between the parties. All Cooperative procurements under this Contract shall be transacted solely between the requesting of the Eligible Procurement Unit. The exercise of any rights, responsibilities or remedies by Eligible Procurement Unit shall be the exclusive obligation of such unit. The City assumes no responsibility for payment, performance or any liability or obligation associated with any cooperative procurement under this Contract. The City shall not be responsible for any disputes arising out of transactions made by others.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the City of Buckeye by its Construction & Contracting Manager has hereunto subscribed his name this 18 day of May, 2018.

CITY OF BUCKEYE

Christopher Williams, Manager
Construction & Contracting

CONTRACTOR:

By: _____

Its: Area Product Specialist
(Title)

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.K. Michael Baker International, Inc. - Civil Plan Review Services
DATE PREPARED: 08/12/21	**DISTRICT NO.:** ALL
STAFF LIAISON: Chris Williams, Construction & Contracting Manager, cwilliams@buckeyeaz.gov, 623-349-6225	
DEPARTMENT: Engineering	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on Task Order No. 4 to the On-Call Consulting for Engineering and Architectural Services Civil Plan Review Contract (No. 2016-020-043) between the City of Buckeye, an Arizona municipal corporation, and Michael Baker International, Inc., a Pennsylvania corporation, related to the continuation of Civil Plan Review Services; and authorizing the Mayor to execute and deliver said Task Order on behalf of the City.

RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:
The Engineering Department is requesting additional funds through Task Order No. 4 to keep up with the current demand for Civil Plan Review Services. Michael Baker International, Inc. will provide assistance with civil plan reviews and other project related services in the budgeted amount not to exceed $175,000.00.

BENEFITS:
To maintain or exceed customer service expectation in the Engineering Department.

FUTURE ACTION:
None

FINANCIAL IMPACT STATEMENT:
None

CURRENT FISCAL YEAR TOTAL COST:
Current Fiscal Year Total Cost (as reflected in motion).

BUDGETED:
Yes

FISCAL YEAR:
FY22

FUND/DEPARTMENT:
10005185 520037

Items related to a project or facility location must include an attached vicinity map for Council Review.

ATTACHMENTS:

2016-020-043 FE Michael Baker Intl.pdf
Michael Baker International TO4.pdf

CITY OF BUCKEYE
ON-CALL CONSULTING FOR
ENGINEERING AND ARCHITECTURAL SERVICES
CATEGORY 16: CIVIL PLAN REVIEW

Contract No: 2016-020-043

THIS CONTRACT, ("Contract") is entered into by and between the CITY OF BUCKEYE, an Arizona municipal corporation, hereafter called (the "CITY") and Michael Baker International, Inc. an Arizona corporation hereafter called "CONSULTANT".

RECITALS

The CITY OF BUCKEYE, Arizona, is authorized and empowered by the City Code to execute contracts

NOW, THEREFORE, in consideration of the premises and the mutual promises herein contained, The City and Consultant agree as follows:

This Contract shall be in full force and effect only when it has been approved as required by the City Code and executed by the duly authorized City officials.

1.0 SCOPE OF SERVICES

The City desires to obtain Professional Architectural and Engineering services for City-wide Improvement projects. In accordance with the contract documents, a specific scope of services and fee proposal shall be negotiated for each project and be executed by individual Task Orders. Services provided by the Consultant under this agreement shall be performed in a manner consistent with that degree of care and skills ordinarily exercised by members of the same profession currently practicing under similar conditions.

The Consultant shall perform all services within the cost and time frames defined in executed Task Orders, and comply in all respect, as described herein for the consideration stipulated, and in compliance with applicable Federal, State and City Codes. Services at the City's request may include, in general, but are not limited to the following:

Civil Plan Review:

- Plan Check for complex construction of Civil or Off Site construction projects within the City of Buckeye. Types of project may include; Water and Wastewater projects, Roads and streets, Bridges and structures, drainage, curb and gutters, sidewalks and other civil or city projects within the Right of Ways.

- Work may include; review of plan and specifications, drafting of written corrections and redlining of plans, communicating both orally and in writing to the applicant and providing code interpretation.
- The selected firm(s) may be required to work at City Hall or within another facility within the City of Buckeye.

A detailed scope of services will be prepared for each individual project by the Consultant and submitted to the City. Requests for services will be issued in the form of a written Task Order ("Task Order") document initiated by the Manager, Construction and Contracting. The Task Order will include a description of the project, detailed scope of services, project schedule, and the approved fee. The Consultant should receive prior approval from the Manager, Construction and Contracting prior to commencement of services on project assignments released under this Contract.

2.0 FEES AND PAYMENTS

2.1 REGISTRATION REQUIREMENT IN VENDOR SELF SERVICE (VSS)

In order to do business with the City, register at https://selfservice.buckeyeaz.gov/MSS Please be aware vendors that do not register and verify their information, including uploading a W-9 form to their profile, may experience delays in processing of invoices and will not be able to do business with the City.

2.2 FEE SCHEDULE

Consultant shall be paid according to the schedule set forth in Exhibit A. Each "Task Order" over One Hundred Thousand Dollars ($100,000.00) shall be subject to City Council Approval.

2.3 PAYMENT APPROVAL

The time spent for each task shall be recorded and submitted to the Contract Administrator. Consultant shall maintain all books, papers, documents, accounting records and other evidence pertaining to time billed and to costs incurred and make such materials available at all reasonable times during the contract period.

Monthly payments shall be made to the Consultant on the basis of a progress report prepared and submitted by the Consultant for work completed through the last day of the preceding calendar month. Each task shall be subject to review and approval by the Contract Administrator to determine acceptable percentage of completion.

The Contract Administrator reserves the exclusive right to determine the amount of work performed and payment due the Consultant on a monthly basis.

All charges must be approved by the Contract Administrator prior to payment.

3.0 GENERAL TERMS AND CONDITIONS

3.1 CONTRACT ADMINISTRATOR

The Contract Administrator for the City shall be the Purchasing Agent, in the Construction and Contracting Division or designee. The Contract Administrator shall oversee the performance of this Contract; assist the Consultant in contacting members associated with the project, audit billings, and approve payments.

The Consultant shall submit all reports and special requests through the Contract Administrator.

3.2 TERM OF CONTRACT

The Contract initial term is established for a term commencing on the date of execution and ending- March, 2018, with automatic renewals, unless otherwise terminated by either party, for four (4) additional one-year terms. Consultant shall provide services under the contract for specific project assignments with a Task Order issued no later than the final day of the effective Contract terms.

3.3 TERMINATION OF CONTRACT

The City has the right to terminate this Contract or abandon any portion of a Task Order, which has not been performed by the Consultant.

Termination for Convenience: City and Consultant reserve the right to terminate this contract or any part hereof for its sole convenience with thirty (30) days written notice. In the event of such termination, Consultant shall immediately stop all work hereunder, and shall immediately cause any of its suppliers and SubConsultants to cease such work. As compensation in full for services performed to the date of such termination, the Consultant shall receive a fee for the percentage of services actually completed. This fee shall be in the amount to be mutually agreed upon by the Consultant and the City, based on the agreed Scope of Work and the value to the City of the services completed. If there is no mutual agreement, the Contract Administrator shall determine the percentage of completion of each task detailed in the Scope of Work and the Consultant's compensation shall be based upon such determination. The City shall make this final payment within sixty (60) days after the Consultant has delivered the last of the partially completed items. Consultant shall not be paid for any work done after receipt of the notice of termination, or for any costs incurred by Consultant's suppliers or SubConsultants, which Consultant could reasonably have avoided.

Termination for Cause: City may also terminate this contract or any part hereof with seven (7) days written notice for cause in the event of any default by the Consultant, or if the Consultant fails to comply with any of the material terms and conditions of this contract. By way of example and not limitation, unsatisfactory performance as judged by the Contract Administrator and failure to provide City, upon written request, with adequate assurances of future performance shall all be causes

allowing City to terminate this contract for cause. In the event of termination for cause, CITY shall not be liable to Consultant for any amount after the issuance of written notice, and Consultant shall be liable to City for any and all damages sustained by reason of the default that gave rise to the termination.

In the event Consultant is in violation of any Federal, State, County or City law, regulation or ordinance, the City may terminate this contract immediately upon giving written notice to the Consultant.

In the event the City shall terminate this Contract or any part of the services as herein provided, the City shall notify the Consultant in writing, and immediately upon receiving such written notice, the Consultant shall discontinue advancing the work under this Contract and/or awarded Task Order.

Upon such termination or abandonment, the Consultant shall deliver to the City all drawings, special provisions, field survey notes, reports, and estimates, entirely or partially completed, in any format, including but not limited to written or electronic media, together with all unused materials supplied by the City.

The Consultant shall appraise the work it has completed and submit its appraisal to the City for evaluation.

If through any cause, the Consultant shall fail to fulfill in a timely and proper manner its obligations under this Contract, or if the Consultant shall violate any of the covenants, agreements, or stipulations of this Contract, the City may withhold any payments to the Consultant for the purpose of setoff until such time as the exact amount of damages due the City from the Consultant is determined.

3.4 FUNDS APPROPRIATION

If the City Council does not appropriate funds to continue this Contract and pay for charges hereunder, the City may terminate this Contract at the end of the current fiscal period, or at the time that funds are no longer available to meet the City's payment obligations hereunder. The City agrees to give written notice of termination to the Consultant at least thirty (30) days prior to any termination for a lack of funds and will pay to the Consultant all approved charges incurred prior to Consultant's receipt of such notice, subject to the availability of funds therefore.

3.5 AUDIT

The City may audit all of the Consultant's records, calculations, and working documents pertaining to this work at a mutually agreeable time and place.

Consultant's records (hard copy, as well as computer readable data), and any other supporting evidence deemed necessary by the City to substantiate charges and claims related to this contract shall be open to inspection and subject to audit and/or reproduction by City's authorized representative to the extent necessary to permit evaluation and verification of cost of the work, and any invoices,

change orders, payments or claims submitted by the Consultant or any of his payees pursuant to the execution of the contract. The City's authorized representative shall be afforded access, at reasonable times and places, to all of the Consultant's Records and personnel pursuant to the provisions of this article throughout the term of this contract and for a period of three years after last or final payment.

Consultant shall require all SubConsultants, to comply with the provisions of this article by insertion of the requirements hereof in a written contract agreement between Consultant and payee. Such requirements will also apply to any and all SubConsultants.

If an audit in accordance with this article, discloses overcharges, of any nature, by the Consultant to the City in excess of five percent (5%) of the total contract billings, the actual cost of the City's audit shall be reimbursed to the City by the Consultant.

Any adjustments and/or payments, which must be made as a result of any, such audit or inspection of the Consultant's invoices and/or records, shall be made within a reasonable amount of time (not to exceed 60 days) from presentation of CITY's findings to Consultant.

3.6 OWNERSHIP OF PROJECT DOCUMENTS

All documents, including but not limited to, field notes, design notes, tracings, data compilations, studies, and reports in any format, including but not limited to, written or electronic media, which are prepared in the performance of this Contract will become and are the property of City.

3.7 COMPLETENESS AND ACCURACY

The Consultant shall be responsible for the accuracy of its work, including but not limited to, survey work, reports, supporting data, and drawings, sketches, etc. prepared or compiled pursuant to this Contract and shall correct, at its expense, all negligent errors or omissions therein which may be disclosed. The cost necessary to correct those errors attributable to the engineering errors shall be chargeable to the Consultant. Additional Scope(s) of work which may be added to the Task Order shall not be considered the responsibility of the Consultant unless the need for same was created solely by any negligent error, omission, or negligent act of the Consultant and does not result in betterment to the City. The fact that the City has accepted or approved the Consultant's work shall in no way relieve the Consultant of any of its responsibilities.

3.8 ATTORNEY'S FEES

In the event either party brings any action for any relief, declaratory or otherwise, arising out of this Contract, or on account of any breach or default hereof, the prevailing shall be entitled to receive from the other party reasonable attorneys' fees and reasonable costs and expenses, which shall be deemed to have accrued from the commencement of such action.

3.9 SUCCESSORS AND ASSIGNS

This Contract shall extend to and be binding upon the Consultant, its successors and assigns, including any individual, company, partnership, or other entity with or into which the Consultant shall merge, consolidate, or be liquidated, or any person, corporation, partnership, or other entity to which the Consultant shall sell its assets.

3.10 ASSIGNMENT

Services covered by this Contract shall not be assigned or subcontracted in whole or in part without the prior written consent of the Contract Administrator.

3.11 SUBCONSULTANTS

During the performance of the Contract, the Consultant may engage such additional SubConsultants as may be required for the timely completion of this Contract. The addition of any SubConsultants shall be subject to the prior approval of the City.

In the event of subcontracting, the sole responsibility for fulfillment of all terms and conditions of this Contract rests with the Consultant.

3.12 ALTERATIONS OR ADDITIONS TO SCOPE OF SERVICES

The total scope of Services to be performed in accordance with this Contract will be identified in each Task Order. Services, which are not included in this Contract, will be considered Additional Services. The Consultant shall not perform these Additional Services without written authorization in the form of an approved Change Order from the City.

3.13 MODIFICATIONS

Any amendment, modification or variation from the terms of this Contract shall be in writing and shall be effective only after approval of all parties signing the original Contract.

3.14 CONFLICT OF INTEREST

This Contract is subject to cancellation pursuant to the provisions of A.R.S. 38-511.

3.15 FORCE MAJEURE

Neither party shall be responsible for delays or failures in performance resulting from acts beyond their control. Such acts shall include, but not be limited to, acts of God, riots, acts of war, epidemics, governmental regulations imposed after the fact, fire, communication line failures, power failures, or earthquakes.

3.16 TAXES

The fee listed in this Contract includes any and all taxes applicable to the activities hereunder. The City shall have no obligation to pay additional amounts for taxes of any type.

3.17 ADVERTISING

No advertising or publicity concerning the City using the Consultant's services shall be undertaken without prior written approval of such advertising or public City by the Contract Administrator.

3.18 COUNTERPARTS

This Contract may be executed in one or more counterparts, and each executed duplicate counterpart of this Contract shall be deemed to possess the full force and effect of the original.

3.19 ENTIRE AGREEMENT

This Contract constitutes the entire understanding of the parties and no representations or agreements, oral or written, made prior to its execution shall vary or modify the terms herein.

3.20 ARIZONA LAW

This Contract shall be governed and interpreted according to the laws of the State of Arizona.

3.21 EQUAL EMPLOYMENT OPPORTUNITY

The Consultant shall comply with Executive Order No. 11245, entitled "Equal Employment Opportunity", as amended by Executive Order No. 11375, and as supplemented in Department of Labor Regulations (41 CFR Part 60).

3.22 NOTICES

All notices or demands required to be given, pursuant to the terms of this Contract, shall be given to the other party in writing, delivered by hand or registered or certified mail, at the addresses set forth below, or to such other address as the parties may substitute by written notice given in the manner prescribed in this paragraph.

On behalf of the Consultant:

Michael Baker International, Inc.
Attn: Timothy Quillman, Associate Vice President
2929 N. Central Avenue, Suite 800
Phoenix, AZ 85012

Phone: 602 798 7517
Email: Tquillman@mbakerintl.com

On behalf of the CITY:

Tammy Vogel, Contract Administrator
530 East Monroe Ave.
Buckeye, AZ 85326
P: (623) 349-6175
Tvogel@buckeyeaz.gov

With a copy to:

Gust Rosenfeld, P.L.C.
One E. Washington, Suite 1600
Phoenix, AZ 85004-2553
Attention: Scott Ruby
P: (602) 257-7432
F :(602) 254-4878

Notices shall be deemed received on date delivered if delivered by hand and on the delivery date indicated on receipt if delivered by certified or registered mail.

3.23 INDEPENDENT CONSULTANT

The services Consultant provides under the terms of this Contract to the City are that of an Independent Consultant, not an employee, or agent of the City. The City will report the value paid for these services each year to the Internal Revenue Service (I.R.S.) using Form 1099.

City shall not withhold income tax as a deduction from contractual payments. As a result of this, Consultant may be subject to I.R.S. provisions for payment of estimated income tax. Consultant is responsible for consulting the local I.R.S. office for current information on estimated tax requirements.

3.24 INDEMNIFICATION

To the fullest extent permitted by law, the Consultant shall indemnify and hold harmless the City and each council member, officer, employee or agent thereof (the City and any such person being herein called an "Indemnified Party"), for, from and against any and all losses, claims, damages, liabilities, costs and expenses (including, but not limited to, reasonable attorneys' fees, court costs and the costs of appellate proceedings) to which any such Indemnified Party may become subject, under any theory of liability whatsoever ("Claims"), insofar as such Claims (or actions in respect thereof) are caused by the negligent acts, intentional misconduct, errors, mistakes or omissions, in connection with the work or services of the Consultant, its officers, employees, agents, or any tier of SubConsultant in the

performance of this Contract. The amount and type of insurance coverage requirements set forth below will in no way be construed as limiting the scope of the indemnity in this Section.

3.25 E-VERIFY REQUIREMENTS

To the extent applicable under Arizona Revised Statues § 41-4401, the Consultant and its Subconsultants warrant compliance with all federal immigration laws and regulations that relate to their employees and their compliance with the E-verify requirements under ARIZ. Revised Statues. § 23-214(A). The Consultant or Subconsultant's breach of the above-mentioned warranty shall be deemed a material breach of the Contract and may result in the termination of the Contract by the City of Buckeye. The City of Buckeye retains the legal right to randomly inspect the papers and records of the Consultant or Subconsultant employee who work on the Contract to ensure that the Consultant and its Subconsultants are complying with the above-mentioned warranty.

The Consultant and its SubConsultants warrant keeping the papers and records open for random inspection during normal business hours by the City. The Consultant and its SubConsultants shall cooperate with City's random inspections including granting the City's entry rights onto its property to perform the random inspections and waiving their respective rights to keep such papers and records confidential.

3.26 SCRUTINIZED BUSINESS OPERATIONS

Pursuant to Arizona Revised Statues §§ 35-391.06 and 35-393.06, the Consultant certifies that it does not have a scrutinized business operation in Sudan or Iran. For the purpose of this Section the term "scrutinized business operations" shall have the meanings set forth in ARIZ. Revised Statues § 35-391 or and 35-393, as applicable. If the City determines that the Consultant submitted a false Certification, the City may impose remedies as provided by law including terminating this Contract.

3.27 COMPLIANCE WITH LAWS

In performing any work required hereunder, Consultant shall comply with all applicable laws, ordinances, and codes of Federal, State and local governments, in effect during this Contract.

3.28 COOPERATIVE PURCHASING

Specific eligible political subdivisions and nonprofit educational or public health institutions ("Eligible Procurement Unit(s) ") are permitted to utilize procurement agreements developed by the City, at their discretion and with the agreement of the awarded Consultant. Consultant may, at its sole discretion, accept orders from Eligible Procurement Unit(s) for the purchase of the Materials and/or Services at the prices and under the terms and conditions of this Agreement, in such quantities and configurations as may be agreed upon between the parties. All Cooperative procurements under this Agreement shall be transacted solely between the requesting of the Eligible Procurement Unit. The

exercise of any rights, responsibilities or remedies by Eligible Procurement Unit shall be the exclusive obligation of such unit. The City assumes no responsibility for payment, performance or any liability or obligation associated with any cooperative procurement under this Agreement. The City shall not be responsible for any disputes arising out of transactions made by others.

4.0 INSURANCE

A Standard Accord Certificate of Insurance is acceptable provided it is contains the additional language and deleted language as required in this contract. Failure to provide a Certificate of Insurance with the appropriate verbiage as required by this contract will result in rejection of the Certificate and delay contract execution.

Additionally, Certificates of Insurance submitted without referencing a Contract number will be subject to rejection and returned or discarded.

4.1 Insurance Representations and Requirements

4.1.1 General: Consultant agrees to comply with all City ordinances and state and federal laws and regulations.

Without limiting any obligations or liabilities of Consultant, Consultant shall purchase and maintain, at its own expense, hereinafter stipulated minimum insurance with insurance companies duly licensed by the State of Arizona (admitted insurer) with an AM Best, Inc. rating of A or above or an equivalent qualified unlicensed insurer by the State of Arizona (non-admitted insurer) with policies and forms satisfactory to City of Buckeye. Failure to maintain insurance as specified may result in termination of this Contract at City of Buckeye's option.

No Representation of Coverage Adequacy: By requiring insurance herein, City of Buckeye does not represent that coverage and limits will be adequate to protect Consultant. City of Buckeye reserves the right to review any and all of the insurance policies and/or endorsements cited in this Contract but have no obligation to do so. Failure to demand such evidence of full compliance with the insurance requirements set forth in this agreement or failure to identify any insurance deficiency shall not relieve Consultant from, nor be construed or deemed a waiver of, its obligation to maintain the required insurance at all times during the performance of this Contract.

4.1.3 Additional Insured: All insurance coverage and self-insured retention or deductible portions, except Workers Compensation insurance and Professional Liability insurance if applicable, shall name, to the fullest extent permitted by law for claims arising out of the performance of this contract, City of Buckeye, its agents, representatives, officers, directors, officials and employees as Additional Insured as specified under the respective coverage sections of this agreement.

4.1.4 Coverage Term: All insurance required herein shall be maintained in full force and effect until all work or services required to be performed under the terms of subject contract is satisfactorily

performed, completed and formally accepted by the City of Buckeye, unless specified otherwise in this Contract.

4.1.5 Primary Insurance: Consultant's insurance shall be primary insurance as respects performance of subject contract and in the protection of City of Buckeye as an Additional Insured.

4.1.6 Claims Made: In the event any insurance policies required by this Contract are written on a "claims made" basis, coverage shall extend, either by keeping coverage in force or purchasing an extended reporting option, for three (3) years past completion and acceptance of the work or services evidenced by submission of annual Certificates of Insurance citing applicable coverage is in force and contains the provisions as required herein for the three year period.

4.1.7 Waiver: All policies, except Professional Liability insurance, shall contain a waiver of rights of recovery (subrogation) against City of Buckeye, its agents, representatives, officials, directors, officers, and employees for any claims arising out of the work or services of Consultant. Consultant shall arrange to have such subrogation waivers incorporated into each policy via formal written endorsement thereto.

4.1.8 Policy Deductibles and or Self Insured Retentions: The policies set forth in these requirements may provide coverage, which contain deductibles or self-insured retention amounts. Such deductibles or self-insured retention shall not be applicable with respect to the policy limits provided to City of Buckeye. Consultant shall be solely responsible for any such deductible or self-insured retention amount. CITY OF BUCKEYE, at its option and cost, may require Consultant to secure payment of such deductible or self-insured retention by a surety bond or irrevocable and unconditional Letter of Credit.

4.1.9 Use of SubConsultants: If any work under this agreement is subcontracted in any way, Consultant shall execute written agreement with SubConsultant containing the same Indemnification Clause and Insurance Requirements set forth herein protecting City of Buckeye and Consultant. Consultant shall be responsible for executing the agreement with SubConsultant and obtaining Certificates of Insurance verifying the insurance requirements.

4.1.10 Evidence of Insurance: Prior to commencing any work or services under this Contract, Consultant shall furnish City of Buckeye with Certificate(s) of Insurance, or formal endorsements as required by this Contract, issued by Consultant's insurer(s) as evidence that policies are placed with acceptable Insurers as specified herein and provide the required coverage(s), conditions, and limits of coverage specified in this Contract and that such coverage and provisions are in full force and effect. If a Certificate of Insurance is submitted as verification of coverage, City of Buckeye shall reasonably rely upon the Certificate of Insurance as evidence of coverage but such acceptance and reliance shall not waive or alter in any way the insurance requirements or obligations of this agreement. Such certificates shall identify the Contract work number and be sent to the designated City of Buckeye- Contract Administrator. If any of the above cited policies expire during the life of this Contract, it shall be Consultant's responsibility to forward renewal Certificates within ten (10) days after the renewal date containing all the aforementioned insurance provisions. Certificates shall

specifically cite the following provisions:

1. City of Buckeye, its agents, representatives, officers, directors, officials and employees is an Additional Insured as follows:

A) Commercial General Liability - Under ISO Form CG 20 10 11 85 or equivalent.
b) Auto Liability- under ISO Form CA 20 48 or equivalent.
c) Excess Liability- Follow Form to underlying insurance.

2. Consultant's insurance shall be primary insurance as respects performance of subject contract.

3. All policies, except Professional Liability, waive rights of recovery (subrogation) against City of Buckeye, its agents, representatives, officers, directors, officials and employees for any claims arising out of work or services performed by Consultant under this contract.

4. Certificate shall cite a 30 day advance notice cancellation provision. If ACORD Certificate of Insurance form used, the phrases in the cancellation provision "endeavor to" and "but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives" shall be deleted. Certificate forms other than ACORD form shall have similar restrictive language deleted.

4.2 Required Coverage

4.2.1 Commercial General Liability: Consultant shall maintain "occurrence" form Commercial General Liability insurance with an unimpaired limit of not less than $1,000,000 for each occurrence, $2,000,000 Products and Completed Operations Annual Aggregate, and a $2,000,000 General Aggregate Limit.

The policy shall cover liability arising from premises, operations, and independent Consultants, products-completed operations, personal injury and advertising injury. Coverage under the policy will be at least as broad as Insurance Services Office, Inc. policy form CG 00 010 93 or equivalent thereof, including but not limited to, separation of insureds clause. To the fullest extent allowed by law, for claims arising out of the performance of this contract, the City of Buckeye, its agents, representatives, officers, directors, officials and employees shall be cited as an Additional Insured under Insurance Service Offices, Inc. Commercial General Liability Additional Insured Endorsement form CG 20 10 11 85, or equivalent, which shall read "Who is an Insured (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of "your work" for that insured by or for you." If any Excess insurance is utilized to fulfill the requirements of this paragraph, such Excess insurance shall be "follow form" equal or broader in coverage scope then underlying insurance.

4.2.2 Professional Liability: If the Contract is the subject of any professional services or work, or if Consultant engages in any professional services or work adjunct or residual to performing the work

under this Contract, Consultant shall maintain Professional Liability insurance covering errors and omissions arising out of the work or services performed by Consultant, or anyone employed by Consultant, or anyone for whose acts, mistakes, errors and omissions Consultant is legally liable, with liability insurance limit of $1,000,000 each claim and $2,000,000 all claims. In the event the Professional Liability insurance policy is written on a "claims made" basis, coverage shall extend for three (3) years past completion and acceptance of the work or services, and Consultant shall be required to submit Certificates of Insurance evidencing proper coverage is in effect as required above.

4.2.3 Vehicle Liability: Consultant shall maintain Business Automobile Liability insurance with a limit of $1,000,000 each occurrence on Consultant's owned, hired, and non-owned vehicles assigned to or used in the performance of the Consultant's work or services under this Contract. Coverage will be at least as broad as Insurance Services Office, Inc. coverage code "1" "any auto" policy form CA 00 01 12 93 or equivalent thereof. To the fullest extent allowed by law, for claims arising out of the performance of this contract, the City of Buckeye, its agents, representatives, officers, directors, officials and employees shall be cited as an Additional Insured under Insurance Service Offices, Inc. Business Auto policy Designated Insured Endorsement form CA 20 48 or equivalent. If any Excess insurance is utilized to fulfill the requirements of this paragraph, such Excess insurance shall be "follow form" equal or broader in coverage scope then underlying insurance.

4.2.4 Worker's Compensation Insurance: Consultant shall maintain Workers Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction of Consultant's employees engaged in the performance of work or services under this Contract and shall also maintain Employers Liability Insurance of not less than $500,000 for each accident, $500,000 disease for each employee and $1,000,000 disease policy limit.

Umbrella/Excess Liability: Umbrella/Excess Liability insurance with a limit of not less than $2,000,000 per occurrence combined limit Bodily Injury and Property

Damage, that "follows form" and applies in excess of the Commercial General Liability, Automobile Liability, and Employer's Liability, as required above.

5.0 SOFTWARE LICENSES

As to all software licenses provided to the City as part of Consultant's obligations under this Contract, the following provisions apply:

5.1 SOURCE CODE AVAILABILITY

Consultant shall furnish City, without charge, a single copy of the Source Code for the Software immediately upon the occurrence of any of the following:

1. Consultant becomes insolvent; or

2. Consultant ceases to conduct business; or

3. Consultant makes a general assignment for the benefit of creditors; or

4. A petition is filed in Bankruptcy by or against Consultant.

5.1.1 Use of the Source Code shall be subject to the same restrictions as to which the Software itself is subject.

5.1.2 City shall have the right to modify Source Code in any manner it deems appropriate, provided that the Source Code as modified shall remain subject to the restrictions set forth in immediately above.

5.2 PROPRIETARY PROTECTION

5.2.1 City acknowledges that to the extent Consultant advises the City that the Software is confidential information or is a trade secret property of the Consultant, the Software is thereby disclosed on a confidential basis under this Contract and is to be used only pursuant to the terms and conditions set forth herein.

5.2.2 Consultant shall not use or disclose any knowledge, data or proprietary information relating to CITY obtained in any manner whatsoever.

5.2.3 To the extent permitted by Arizona Law, the parties agree, both during the term of this Contract and for a period of seven (7) years after termination of this Contract and of all licenses granted hereunder, to hold each other's confidential information in confidence. The parties agree, unless required by government regulations or order of court, not to make each other's confidential information available in any form to any third party or to use each other's confidential information for any purposes other than the implementation of this Contract provided, however, that if Consultant's confidential information is requested to be divulged under the provisions of the Arizona Public Records Act, A.R.S., Title 39, Consultant shall reimburse to City the full cost of City's refusal to release the information, including costs of litigation, City's attorney fees, fines, penalties or assessments of opposing party's attorney fees. Each party agrees to take all reasonable steps to ensure that confidential information is not disclosed or distributed by its employees or agents in violation of the provisions of this Contract.

5.3 NON-INFRINGEMENT

Consultant warrants that the Software provided hereunder does not and will not infringe upon or violate any patent, copyright, trade secret or other proprietary or property right of any person or entity. In the event of a claim against City asserting or involving such an allegation, Consultant will defend, at Consultant's expense, and will indemnify City and hold City harmless against any loss, cost, expense (including attorney fees) or liability arising out of such claim, whether or not such claim is

successful. In the event an injunction or order should be obtained against use of the Software by reason of the allegations, or if in Consultant's opinion the Software is likely to become the subject of such a claim of infringement, Consultant will, at its option and its expense: (I) procure for the City the right to continue using the Software; or (ii) replace or modify the same so that it becomes non-infringing (such modification or replacement shall be functionally equivalent to the original); or (iii) if neither (i) nor (ii) is practicable, repurchase the Software on a depreciated basis utilizing a straight line five (5) year period, commencing on the date of acceptance.

5.4 THIRD PARTY LICENSE

Consultant shall sublicense to City any and all third party Software required in the execution of this Contract. City reserves the right to accept or reject third party license terms. If the City rejects the terms of a third party license, it shall be Consultant's responsibility to negotiate acceptable terms or to supply Software from another source with terms acceptable to City. City's acceptance of the third party license terms shall not be unreasonably withheld.

6.0 SEVERABILITY AND AUTHORITY

6.1 SEVERABILITY

If any term or provision of this Contract shall be found to be illegal or unenforceable, then notwithstanding such illegality or unenforceability, this Contract shall remain in full force and effect and such term or provision shall be deemed to be deleted.

6.2 AUTHORITY

Each party hereby warrants and represents that it has full power and authority to enter into and perform this Contract, and that the person signing on behalf of each party has been properly authorized and empowered to enter this Contract. Each party further acknowledges that it has read, understands, and agrees to be bound by the terms and conditions of this Contract.

6.3 ISRAEL COMPLIANCE

Pursuant to Arizona Revised Statute § 35-393.01, Contractor certifies that it is not currently engaged in, and agrees for the duration of the Contract to not engage in, a boycott of Israel.

[Signature page follows]

EXHIBIT A
GENERAL SCOPE OF SERVICES

GENERAL SCOPE OF SERVICES REQUIREMENTS AND STANDARDS

Consultant's services involving design, construction administration and inspection services shall include, but are not limited to, the following general requirements and standards, unless otherwise provided for in the individual scope of services incorporated as a part of the project assignment Notice(s) to Proceed released under this Contract.

DESIGN SERVICES –GENERAL PROJECTS

The Consultant shall prepare plans, specifications, cost estimates and special provisions according to direction and standards of the City. All work shall be performed within the City of Buckeye.

A. General Project Administration

1. The Consultant shall attend project meetings as necessary to maintain the project budget and schedule; chair periodic regular meetings as requested by the City, set agendas and prepare and distribute meeting minutes. Meetings under basic services include:

A) Meetings with City staff and Management.
B) Meetings required obtaining a permit.
C) Meetings with internal oversight committees.

1. The Consultant shall coordinate with private, public and City utilities regarding standard utility issues and incorporate pertinent information in the plans.

2. The Consultant shall be responsible for submission and retrieval of all required Contract documents to the various reviewing agencies required under the project.

3. The Consultant shall prepare and maintain a project schedule after meeting with the project manager to determine appropriate submittal deadlines and to coordinate project submissions.

4. When applicable, the Consultant shall be responsible for obtaining or assisting the City in obtaining all federal, state, county, local and utility permits and approvals required for the project. As the project progresses, the Consultant shall timely furnish to the City copies of all communications between the Consultant and the respective agency or department related to the Contract and all approvals and permits for the projects.

5. If requested, the Consultant shall prepare necessary exhibits and make a presentation as deemed necessary by the Project Manager.

6. The Consultant shall avoid specification of construction materials known to be hazardous or potentially hazardous, including asbestos, lead or any derivative thereof, unless specifically approved in writing by the City.

7. The Consultant shall submit a written monthly "Design and Progress Report" to the City during the entire period of design.

B. 30% Plans Phase

1. The Consultant shall consult with City staff to ascertain information needed to meet the requirements of the project and shall confirm such requirements in writing and/or by sketch to the City.

2. The Consultant shall be responsible for establishing a pre-design meeting for design reviews with the City a minimum of two weeks prior to completion of schematic design. The Consultant will submit Three (3) copies of the preliminary site plan to the City at the time the request for a meeting is made.

3. The Consultant shall prepare a schedule for City approval of all required submittals for City review(s) based upon information from the pre-design meeting and current City published review times.

4. The Consultant shall prepare preliminary design studies leading to a recommended solution together with a general description of the project and shall, at no further expense to the City, submit three (3) sets of same to the City with written construction, cost estimates. The Consultant shall present these studies and estimates to the City for review, comments and approval.

5. The 30% Plans Phase will be considered completed when the City has approved the preliminary design plans and the construction cost estimate for the submitted plans is within the project construction budget.

C. 60% Plan Phase

1. After the 30% plans and construction cost estimate are approved in writing by the City, the Consultant shall prepare the 60% plans documents. These documents will consist of preliminary plans, elevations, other drawings, and specifications to fix and illustrate the size and character of the entire project including the kinds of materials; type of structure; mechanical, electrical, computer and telecommunications systems; and such other work as may be appropriate.

2. The Consultant shall design the project so that the construction shall conform to the requirements of Title 34, Arizona Revised Statutes regulating public buildings and improvements, as well as other applicable statutes and regulations.

3. Toward the end of the 60% Plans Phase, the Consultant shall hold a plan coordination meeting between the Consultant and the Subconsultants to review and address coordination and integration of the plans provided by the various disciplines. The Consultant shall invite the Project Manager to attend this meeting.

4. After completion of the 60% Plans Phase, the Consultant shall, at no further expense to the City, deliver three (3) sets of the 60% drawings and plans, three (3) sets of the specifications, and three (3) sets of the detailed project cost estimates. The Consultant shall present all documents to the City for review, comment, and approval. If requested by the City, Consultant shall provide other design support documentation (i.e., structural, irrigation or earthwork calculations).

5. The 60% Plans Phase will be considered complete once the City has approved the submitted design development plans, agrees that the construction cost estimate is within the established project budget, and agrees that the Consultant is meeting the submittal dates for City documents as identified in the 30% Plans Phase schedule.

D. 90% Final Plans Phase

1. After the 60% plans and construction cost estimate have been approved in writing by the City, the Consultant shall prepare final, permit-ready construction drawings, plans, and specifications.

2. The consultant shall prepare its drawings in AutoCAD format compatible with the City (or other department as specified in the project assignment notice to proceed) CADD technology using City layering standards. The drawing format will be a 24" x 34" sheet size unless otherwise authorized in writing by the City. The City shall provide the City's Boilerplate and Supplemental General Conditions sections for the project specifications. No changes, deletions, or additions to these sections shall be made by the Consultant without approval by the City before inclusion in the final specifications. Final bid specifications shall be prepared in an 8-1/2" x 11" size format, single-spaced, single-sided and unbound. The Consultant shall coordinate the special provisions of the bid package to be compatible with the City's Boilerplate and Supplemental General Conditions.

3. During the preparation of construction documents, the Consultant shall inform the City in writing of any adjustments to previous construction cost estimates indicated by changes in scope, requirements, or market conditions.

4. The Consultant shall comply with all applicable federal, state, and local laws and codes in effect at the time the drawings, plans and specifications are approved by the City. The Consultant shall notify the City of any code changes that occur during the life of this Design Contract that will impact the project.

5. No later than ten calendar days prior the first advertisement date for the project bid, the Consultant shall ensure that the plans prepared by the utility companies have been incorporated into the final plans set.

6. Toward the end of the 60% plans phase, the Consultant shall hold a plan coordination meeting between the Consultant and the Subconsultants to review and address coordination and integration of the plans provided by the various disciplines. The Consultant shall invite the project manager to attend this meeting.

7. Upon completion of construction plans, specifications and Contract documents, the Consultant shall provide, at no expense to the City, three (3) sets of all design calculations, including structural, mechanical, electrical and plumbing, and three (3) complete sets each of construction drawings, plans specifications and Contract documents for review and approval by the appropriate City agencies. These documents must be sealed and signed by the appropriate responsible party.

8. With the submission of the construction plans, specifications and Contract documents, the Consultant shall submit three (3) copies of a detailed project cost estimate.

9. The Consultant shall coordinate the building permit process and assist in filing the required documents to secure approval of all governmental authorities having jurisdiction over the design of the project. All original filing and approval fees shall be paid by the City or reimbursed to the Consultant if paid by Consultant.

10. The Consultant shall incorporate all corrections received from the reviewing entities into the final bid set of Contract documents. If required, the Consultant shall resubmit the revised plans to Project Manager for approval. Also, if required by the project manager, the Consultant shall submit a revised cost estimate reflecting the modification made for this final submittal.

11. Upon approval by the City of complete drawings, plans, and specifications, the Consultant shall deliver to the City the final original copy of the final specifications. These documents shall be sealed and signed by the appropriate responsible party.

12. The Final Design Phase will be considered complete when the City has approved the final submitted plans and specifications, agrees that the cost estimate is within the established project budget, and agrees that the plans are permit-ready.

E. Bid Phase

1. No later than eighteen calendar days prior to the first advertisement date of the project bid, the Consultant shall prepare and submit a detailed construction cost estimate of the project. This cost estimate for the base bid shall be prepared in sufficient detail to identify all trades required for the project, as well as estimated cost for those trades. The cost estimate should follow the Construction Specification Institute divisions. The Consultant shall not furnish the estimate to any one other that the City.

2. The Consultant may attend and prepare meeting minutes for the pre-bid conference, any other

related meetings, and prepare all necessary addenda related to documents originated by the Consultant in a format approved by the City. The City will be responsible for distributing all addenda.

3. The Consultant shall be responsible for responding to questions regarding the plans and specifications. Consultant shall receive, review and approve/disapprove request for substitutions, and incorporate these substitution requests into the addenda as required.

4· The Consultant shall submit their final design plans including all design addenda on an electronic medium immediately useable and compatible with City of Buckeye "City CADD" technology. The resulting image produced on the viewing screen shall include all title blocks, borders, details and notes that are visible on full-size originals or blue lines. The CADD files should be accessible for reading and plotting. One copy of the final specifications including all addenda shall be submitted in print and on a computer disc compatible with City work processing standards.

Copies of documents that may be relied upon by the City are limited to the printed copies (also known as hard copies) that are signed and sealed by the Consultant. Files in electronic media format of text, data, graphics, or of other types that are furnished by the Consultant to the City are only for the convenience of the City. Any conclusion or information obtained or derived from such electronic files will be at the City's sole risk.

Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within 60 days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 60-day acceptance period will be corrected by the party delivering the electronic files. The Consultant shall not be responsible to maintain documents stored in electronic media format after acceptance by the City.

5. The Bid Phase will be considered completed when the project construction bid has been awarded by the City Council and final construction documents have been received on electronic media.

E. GENERAL CONSTRUCTION ADMINISTRATION AND INSPECTION SERVICES

1. Consultant may perform Construction Administration and Inspection services on the project assignments released under this Contract according to the direction and standards of the City.

2. The Consultant may attend the pre-construction conference which will be arranged and called for by the City; be prepared to respond to questions; and prepare a "Record of Preconstruction Conference" which will be distributed to all attendees. Consultant will attend project meetings as necessary to maintain the project budget and schedule; chair periodic regular meetings on site and any additional meetings as requested by the City; set agendas and prepare and distribute minutes.

3. If required, Consultant shall furnish the services of a competent inspector during the progress of construction. The Consultant shall coordinate the inspection, facilitate the work in general, and

perform miscellaneous inspection work as required to assure that the work is constructed in accordance with the Contract documents and accepted standards of the construction industry. The Consultant shall not have the direct control of the individual workmen and their work. The direct control shall be solely the responsibility of the Consultant (referred to as "Consultant"), to the extent provided by the Contract between the City and the Consultant.

4. If required, Consultant shall provide Construction Administration and Inspection as required for substantial compliance with the Contract documents. Consultant will keep the City informed of the progress of the work, endeavor to guard the City against defects and deficiencies in the work of the Consultant, and shall reject or stop work, as appropriate, failing to conform to the Contract documents. The Consultant or Consultant's authorized representative shall keep adequate project records and field reports of work during construction.

5. If required, Consultant shall make recommendations to the City on matters relating to the interpretation of the Contract documents.

6. If required, Consultant shall review the Consultant's submittal schedule which will list all submissions required by Contract documents.

7. If required, Consultant shall establish a submittal control sheet to monitor the timeliness of Consultant submissions, and review and make recommendations to the City relating to the execution and progress of the project.

8. If required, Consultant shall provide the necessary survey controls for the Consultant's guidance and verify the correctness of the work as it progresses.

9. If required, Consultant shall review and monitor schedules; and review and approve or take other appropriate action on samples, shop and setting drawings; coordinate testing, review and make recommendations on reports from testing laboratory(ies), and other submissions for conformance with the design concept of the project and for compliance with the information given by the Contract documents.

10. If required, Consultant shall monitor and log Consultant correspondence and provide the City with all documents, reports and correspondence pertaining to the project.

11. If required, all construction testing shall be done under the supervision of the Consultant.

12. If required, Consultant shall submit reports of the job site visit which will summarize the activities at the time of the visit and progress made since the last visit. These reports will be submitted to the City bi-weekly.

13. If required, Consultant shall make construction monthly progress reports to the City covering the general progress of the project and describing any problems or factors contributing to delay and

recommending solutions or resolutions where appropriate.

14. If required, Consultant shall review and make recommendations to the City on all claims of the Consultant for extra work not covered in the Contract documents, and the recommendations shall be jointly reviewed by the Consultant and the City for final decisions. The Consultant will prepare construction change orders for approved extra work and time extensions not covered in the Contract documents brought about by Consultant(s) claims.

15. For all changes, additions or deletions requested by the City, the Consultant will obtain all information required and present Consultant's recommendations. The City will either approve or deny the recommendation.

16. If required, Consultant will verify the amount owed to the Consultant and will sign and issue an "Estimate for Payment," in such amount. This "Estimate for Payment" will constitute a representation to the City that the work has progressed to the point indicated. By issuing an "Estimate for Payment," Consultant will also represent to the City that, to the best of Consultant's knowledge, information, and belief, based on what Consultant inspections and observations have reveals, the quality of the work is in substantial accordance with the Contract documents.

17. If required, Consultant will attend joint inspections with the City to determine the dates of substantial and final completion and so inform the City Engineer in writing, when completed. After acceptance of the project by the City, Consultant will promptly issue a final "Estimate for Payment," with two completed and signed copies.

F. The Consultant may be required to perform any of the following if defined in an issued Task Order as follows:

1. Conduct final close-out inspections(s), prepare a project punch list including the owner's concerns, and verify that the items indicated on the list are corrected prior to final acceptance.

2. Verify that all documentation required of the Consultant per the construction contract has been submitted and is acceptable to the City.

3. Review, assemble and provide all warranties, files, operating manuals, logs and other closeout paperwork as described in the project specifications at the completion of the project.

4. Verify that all correspondence, shop drawings, directives, and RFI's, are delivered to the City.

5. Review and approved all lien waivers prior to the final payment to the Consultant.

6. Prepare and turn over to the City "Project record" conditions. These Records shall be signed and certified as accurate by the Consultant.

7. Verify that additional construction materials are delivered to the City by the Consultant.

8. Evaluate the Consultant's performance.

G. The Consultant shall furnish the City a letter recommending acceptance of the work, however, the City shall retain the right to determine when, and if, the construction work appears to be accomplished in accordance with the drawings, plans and specifications. In this respect, the construction work may be inspected at any time by the City or an authorized representative(s).

Contract No: 2016-020-043

IN WITNESS WHEREOF, the City of Buckeye by its Mayor and City Clerk has hereunto subscribed their names this 7th day of March, 2017.

CITY OF BUCKEYE

Jackie A. Meck, Mayor

ATTEST:

Lucinda Aja, City Clerk

RECOMMENDED:

Christopher A. Williams, Manager
Construction and Procurement

APPROVED AS TO FORM:

Scott Ruby
City Attorney

CONSULTANT: Michael Baker International, Inc.

BY: _____

CONSULTANT SIGNATURE

ITS: Associate Vice President

EXHIBIT B:
RATE SCHEDULE AND CONSULTANT SUBMITTAL

BUCKEYE, AZ

CITY OF BUCKEYE

ON-CALL ENGINEERING & ARCHITECTURAL CATEGORY 16-CIVIL PLAN REVIEW (2016-20) RATE SCHEDULE, CALENDAR YEAR 2017

MICHAEL BAKER INTERNATIONAL, INC.

Position	Hourly Billable Rate
Position Title: Project Manager	195
Position Title: Sr. Engineer Reviewer	157
Position Title: Sr. Architect Reviewer	142
Position Title: Sr. Planner Reviewer	120
Position Title: Sr. Plans Reviewer	116
Position Title: Plans Reviewer	105
Position Title: Planning Reviewer	85

CITY OF BUCKEYE
ON-CALL CONSULTING FOR
ENGINEERING AND ARCHITECTURAL SERVICES
CIVIL PLAN REVIEW
CONTRACT 2016-020-043

MICHAEL BAKER INTERNATIONAL, INC.

Task Order No. 4

In accordance with the On-Call Contract between the City of Buckeye (the "City") and Michael Baker International, Inc. ("Consultant"), dated the 7th day of March, 2017, the Consultant will perform the following Scope of Services as detailed in Article 1, subject and pursuant to the terms and conditions of the On-Call Contract for Engineering and Architectural Services.

ARTICLE 1
SCOPE OF SERVICES

Consultant will provide Civil Plan Review Services for the City of Buckeye, Arizona, more particularly set forth in the Scope of Work at Exhibit A.

ARTICLE 2
SCHEDULE OF COMPLETION OF SERVICES

The Consultant shall commence work immediately upon issuance of this Task Order and complete the services and deliverables within one year, or until such time as the Scope of Services is completed and approved by the City, or unless terminated as otherwise provided pursuant to the terms and conditions of the Consulting Services Contract for On-Call Engineering Services.

ARTICLE 3
FEE BREAKDOWN

Total cost to complete the services under this Task Order as identified in Article 1 shall not exceed **One Hundred and Seventy Five Thousand Dollars and Zero Cents ($175,000.00).**

This Task Order No. 4 is subject to the terms and requirements of the Consultant Contract and may be cancelled pursuant to the provisions of Arizona Revised Statutes Section 38-511. If there is a discrepancy between the terms and conditions of the Contract and Scope of Work, the Contract supersedes the Scope of Work.

THEREFORE, the City of Buckeye by its City Mayor has hereunto subscribed his name on this date: _____.

CITY

THE CITY OF BUCKEYE, ARIZONA
an Arizona Municipal corporation

By: _____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda Aja, City Clerk

RECOMMENDED:

_____
Christopher A. Williams, Manager
Construction & Contracting Division

APPROVED AS TO FORM:

_____
City Attorney

CONTRACTOR:
MICHAEL BAKER INTERNATIONAL, INC.

By: Kevin Kiegler _____
Name

Vice President
_____
Title

Adobe Sign Transaction Number: CBJCHBCAABAAXpqfpynl5i0P9xW07C9AknEXI2l8r2lI

EXHIBIT A

SCOPE OF WORK AND FEE SCHEDULE

Michael Baker International, Inc.
2929 North Central Avenue, Suite 800
Phoenix, AZ 85012
602-279-1234

July 13, 2021

Mr. Paul Lopez, P.E.
City of Buckeye – Deputy City Engineer
530 East Monroe Avenue
Buckeye, Arizona 85326

Subject: City of Buckeye On-Call Contract #2016-020-043
Civil Plan Review – Continued Services

Dear Mr. Lopez:

We would like to thank you for the opportunity to continue to provide civil plan review services for the City of Buckeye (CITY) under the subject on-call contract, that has currently effective until June 30, 2021. This proposal would include continued civil plan review services for a period beginning September 21, 2021 through June 30, 2022, or a maximum of $175,000, whichever occurs first.

Scope of Services & Fee (September 21, 2021 – June 30, 2022)

CONTRACTOR shall provide plan review services four days per week (24 hours for a Plans Reviewer ($116/hr) and 16 hours/week (Senior Plans Reviewer ($145/hr) and mileage at $0.58/mile. The plan reviews shall be conducted at the CITY offices, Michael Baker offices or via electronic review dependent on the situation. Prior to the end of each work week, the CONTRACTOR shall coordinate with the CITY regarding expected workload for the following week. The CITY will compensate the CONTRACTOR, at the approved IRS rate, for 75-miles round trip that will be required to be traveled between CONTRACTOR and CITY office locations. The CITY will provide the plans reviewer with a desk, chair, computer, desk phone and general office supplies for use while completing plan review services at the CITY.

Michael Baker International, Inc.			
Category	Approved Rates	Hours	Totals
Sr. Plans Reviewer	$145	480	$69,670
Plans Reviewer	$116	901	$104,504
Estimated Mileage	$0.58		$826.00
Not-to-Exceed Total			$175,,000

Michael Baker International, Inc.
2929 North Central Avenue, Suite 800
Phoenix, AZ 85012
602-279-1234

Notes:

1. Plan review services to be provided September 21, 2021 through June 30, 2022, or for a maximum of $175,000, whichever occurs first.
2. Adrian Navarro will serve as the Senior Plans Reviewer. He will work with the CITY to identify prompt timelines for review completion as they are assigned. He will ultimately be responsible for the plan reviews.
3. Adrian will look to reduce costs and increase efficiency by utilizing more time of the Plans Reviewer category.
4. Assumes contract to be a Lump Sum contract to cover the plan review service team for a period of approximately 36 weeks.
5. The City will only be billed for mileage per visit at rate of $43.50 per roundtrip with an assumed two trips per month on average. The trips can be reduced via electronic review and an allowance of $826 will be used for these visits.
6. This new Purchase Order will be under a Not-to-exceed amount of $175,000 for the City of Buckeye On-Call Contract #2106-020-043.

If the scope of services and fee as stated above are acceptable to the CITY, please provide your concurrence and associated updated purchase order. Should you have questions or comments regarding the scope and fee provided above, please do not hesitate to contact me and I will work with you to a successful resolution.

Sincerely,

MICHAEL BAKER INTERNATIONAL, INC.



Kevin Kugler, AICP
Vice President

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.L. Sunrise Engineering - Civil Plan Review Services
DATE PREPARED: 08/12/21	**DISTRICT NO.:** ALL
STAFF LIAISON: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225	
DEPARTMENT: Engineering	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on the expenditure of not to exceed $150,000 for Civil Plan Review Services for Fiscal Year 2021-2022 through Sunrise Engineering, Inc., an Arizona corporation.

RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:
The City of Buckeye's Engineering Department is requesting assistance to keep up with current demand for civil plan review services utilizing the City of Buckeye's Cooperative Contract Addendum (CCA) No. 2021006 with Sunrise Engineering Services (SEI) Expiration - 08/16/21. Not to exceed $150,000.

BENEFITS:
The benefits of this request will maintain or exceed customer service expectations in the Engineering Department by completing timely Civil plan review requests.

FUTURE ACTION:
The Construction and Contracting staff will issue a purchase order in conjunction with CCA #2021006 to encumber funds for Civil Engineering plan review.

FINANCIAL IMPACT STATEMENT:
$150,000.00

CURRENT FISCAL YEAR TOTAL COST:
$150,000.00

BUDGETED:
Yes

FISCAL YEAR:
FY22

FUND/DEPARTMENT:
GL - 10005185-520006

Items related to a project or facility location must include an attached vicinity map for Council Review.

ATTACHMENTS:

Sunrise Engineering, Inc. Contract F.E. 09.15.20.pdf
SEI Proposal for Plan Review 2021-2022 - 150K.pdf
Sunrise Executed Change Order 2.pdf

COOPERATIVE CONTRACT ADDENDUM
BETWEEN THE CITY OF BUCKEYE
AND
SUNRISE ENGINEERING, INC.

CIVIL ENGINEERING SERVICES
CONTRACT NO. 2021006

THIS COOPERATIVE CONTRACT ADDENDUM (this "Addendum") is made between the City of Buckeye, an Arizona municipal corporation (the "City") and Sunrise Engineering, Inc., an Arizona corporation (the "Consultant").

WHEREAS after a competitive procurement process, the City of Mesa entered into Contract No. MA21000035 dated August 17, 2020, with the Consultant to provide Civil Engineering Services (the "Mesa Contract"). The Mesa Contract is attached hereto as Exhibit B and incorporated herein by reference. The original Mesa, Request for Qualifications for Professional Services is attached hereto as Exhibit C specifically referencing- Section VIII-General Information, Pg., 5-6, Cooperative Use of Contract.

WHEREAS the City is permitted by Section 24-3-15 et seq. of the City Procurement Code to make purchases via cooperative purchasing pursuant to a cooperative purchasing Contract. The Scope of Work, Fee and Rate Schedule is attached hereto as Exhibit A.

THEREFORE, the City desires to enter into a Contract with the Consultant for Civil Engineering Services, and issues the following addendum to the Original Contract.

In the event of conflict between this addendum and the Contract, this addendum shall control:

1. **TERM OF CONTRACT** - This Contract shall be effective as of the date first set forth in the Notice to Proceed and remain in effect until the Mesa Contract is not renewed. Any reference to automatic renewal is hereby deleted. This Contract addendum may be renewed only upon mutual written Contract of the parties.

2. **REMEDIES** – Any references in the Contract to arbitration or to the jurisdiction of any court are hereby deleted. City shall have all remedies afforded by the Uniform Commercial Code as adopted by the State of Arizona. Consultant shall have, subject to the limitation imposed by the terms of this Contract, all remedies afforded by the Uniform Commercial Code as adopted by the State of Arizona.

3. **HOLD HARMLESS** - Any clause requiring the City to indemnify or hold harmless any party is hereby deleted in its entirety.

4. **GOVERNING LAW** - The Contract shall be governed by the laws of the Arizona. This provision replaces any references to any other State's governing law.

5. **PAYMENT** - Consultant shall provide Services under the terms and conditions of the Mesa Contract, this Addendum, and services described in the Scope of Work. The amount to be determined by individual Purchase Orders Issued by the City. Any references to prepayment are deleted. Payment will be in arrears.

6. **INTEREST** - Should the Contract include a provision for interest on late payments, the City agrees to pay the maximum legal rate under Arizona law. All other references to interest or late charges are deleted.

7. **RECOUPMENT** - Any language in the Contract waiving the City's right to set-off, counterclaim, recoupment, or other defense is hereby deleted.

8. **FISCAL YEAR FUNDING** - Service performed under the Contract may be continued in succeeding fiscal years for the term of the Contract, contingent upon funds being appropriated by the City Council or otherwise being available for this service. In the event funds are not appropriated or otherwise available for this service, the Contract shall terminate without penalty on June 30, 2021. After that date, the Contract becomes of no effect and is null and void. However, the City agrees to use its best efforts to have the amounts contemplated under the Contract included in its budget. Non-appropriation or non-funding shall not be considered an event of default.

9. **STATUTE OF LIMITATION** - Any clauses limiting the time in which the City may bring suit against the Consultant, lessor, individual, or any other party are deleted.

10. **SIMILAR SERVICES** - Any provisions limiting the City's right to obtain similar services or equipment in the event of default or non-funding during the term of the Contract are hereby deleted.

11. **ATTORNEY FEES** - The City recognizes an obligation to pay attorney's fees or costs only when assessed by a court of competent jurisdiction. Any other provision is invalid and considered null and void.

12. **ASSIGNMENT** - Notwithstanding any clause to the contrary, the City reserves the right to assign the Contract to another City agency, board or commission upon thirty (30) days written notice to the Consultant and Consultant shall obtain the written consent of City prior to assigning the Contract.

13. **LIMITATION OF LIABILITY** - The City cannot agree to assume the potential liability of a Consultant. Accordingly, any provision limiting the Consultant's liability for direct damages to a certain dollar amount or to the amount of the Contract is hereby deleted. Limitations on special, incidental or consequential damages are acceptable. In addition, any limitation is null and void to the extent that it precludes any action for injury to persons or for damages to personal property.

14. **INDEMNIFICATION -** To the fullest extent permitted by law, the Consultant shall indemnify, defend and hold harmless the City and each council member, officer, employee or agent thereof (the City and any such person being herein called an "Indemnified Party"), for, from and against any and all losses, claims, damages, liabilities, costs and expenses (including, but not limited to, reasonable attorneys' fees, court costs and the costs of appellate proceedings) to which any such Indemnified Party may become subject, under any theory of liability whatsoever ("Claims"), insofar as such Claims (or actions in respect thereof) relate to, arise out of, or are caused by or based upon the negligent acts, intentional misconduct, errors, mistakes or omissions, in connection with the work or services of the Consultant, its officers, employees, agents, or any tier of subConsultant in the performance of this Contract. The amount and type of insurance coverage requirements set forth below will in no way be construed as limiting the scope of the indemnity in this Section.

15. **RIGHT TO TERMINATE** – This Contract may be cancelled pursuant to ARIZ. REV. STAT. § 38-511. City shall have the right to terminate the Contract upon thirty (30) days written notice to Consultant. City agrees to pay Consultant for services rendered or goods received prior to the effective date of termination.

16. **TERMINATION CHARGES** - Any provision requiring the City to pay a fixed amount or liquidated damages upon termination of the Contract is hereby deleted. The City may only agree to reimburse a Consultant for actual costs incurred or losses sustained during the current fiscal year due to wrongful termination by the City prior to the end of any current Contract term.

17. **INSURANCE** - Any provision requiring the City to insure equipment or property of any kind and name the Consultant as beneficiary or as an additional insured is hereby deleted.

17.1 General.

A. Insurer Qualifications. Without limiting any obligations or liabilities of the Consultant, the Consultant shall purchase and maintain, at its own expense, hereinafter stipulated minimum insurance with insurance companies duly licensed by the State of Arizona with an AM Best, Inc. rating of A- or above with policies and forms satisfactory to the City. Failure to maintain insurance as specified herein may result in termination of this Contract at the City's option.

B. No Representation of Coverage Adequacy. By requiring insurance herein, the City does not represent that coverage and limits will be adequate to protect the Consultant. The City reserves the right to review any and all of the insurance policies and/or endorsements cited in this Contract but has no obligation to do so. Failure to demand such evidence of full compliance with the insurance requirements set forth in this Contract or failure to identify any insurance deficiency shall not relieve the Consultant from, nor be construed or deemed a waiver of, its obligation to maintain the required insurance at all times during the performance of this Contract.

C. Additional Insured. All insurance coverage and self-insured retention or deductible portions, except Workers' Compensation insurance and Professional Liability insurance, if applicable, shall name, to the fullest extent permitted by law for claims arising out of the performance of this Contract, the City, its agents, representatives, officers, directors, officials and employees as Additional Insured as specified under the respective coverage Parts of this Contract.

D. Coverage Term. All insurance required herein shall be maintained in full force and effect until all work or services required to be performed under the terms of this Contract are satisfactorily performed, completed and formally accepted by the City, unless specified otherwise in this Contract.

E. Primary Insurance. The Consultant's insurance shall be primary insurance with respect to performance of this Contract and in the protection of the City as an Additional Insured.

F. Waiver. All policies, except for Professional Liability, including Workers' Compensation insurance, shall contain a waiver of rights of recovery (subrogation) against the City, its agents, representatives, officials, officers and employees for any claims arising out of the work or services of the Consultant. The Consultant shall arrange to have such subrogation waivers incorporated into each policy via formal written endorsement thereto.

G. Policy Deductibles and/or Self-Insured Retentions. The policies set forth in these requirements may provide coverage that contains deductibles or self-insured retention amounts. Such deductibles or self-insured retention shall not be applicable with respect to the policy limits provided to the City. The Consultant shall be solely responsible for any such deductible or self-insured retention amount.

H. Use of SubConsultants. If any work under this Contract is subcontracted in any way, the Consultant shall execute written Contracts with its subConsultants containing the indemnification provisions set forth in this Section and insurance requirements set forth herein protecting the City and the Consultant. The Consultant shall be responsible for executing any Contracts with its subConsultants and obtaining certificates of insurance verifying the insurance requirements.

I. Evidence of Insurance. Prior to commencing any work or services under this Contract, the Consultant will provide the City with suitable evidence of insurance in the form of certificates of insurance and a copy of the declaration page(s) of the insurance policies as required by this Contract, issued by the Consultant's insurance insurer(s) as evidence that policies are placed with acceptable insurers as specified herein and provide the required coverages, conditions and limits of coverage specified in this Contract and that such coverage and provisions are in full force and effect. Confidential information such as the policy premium may be redacted from the declaration page(s) of each insurance policy, provided that such redactions do not alter any of the information required by this Contract. The City shall reasonably rely upon the certificates of insurance and declaration page(s) of the insurance policies as evidence of coverage but such acceptance and reliance shall not waive or alter in any

way the insurance requirements or obligations of this Contract. In the event any insurance policy required by this Contract is written on a "claims made" basis, coverage shall extend for two years past completion of the Services and the City's acceptance of the Consultant's work or services and as evidenced by annual certificates of insurance. If any of the policies required by this Contract expire during the life of this Contract, it shall be the Consultant's responsibility to forward renewal certificates and declaration page(s) to the City 30 days prior to the expiration date. All certificates of insurance and declarations required by this Contract shall be identified by referencing the Contract number and title of this Contract. A $25.00 administrative fee shall be assessed for all certificates or declarations received without the appropriate Contract number and title or a reference to this Contract, as applicable. Additionally, certificates of insurance and declaration page(s) of the insurance policies submitted without referencing the appropriate Contract number and title or reference to this Contract, as applicable, will be subject to rejection and may be returned or discarded. Certificates of insurance and declaration page(s) shall specifically include the following provisions:

(1) The City, its agents, representatives, officers, directors, officials and employees are Additional Insureds as follows:

(a) Commercial General Liability - Under Insurance Services Office, Inc., ("ISO") Form CG 20 10 03 97 or equivalent.

(b) Auto Liability - Under ISO Form CA 20 48 or equivalent.

(c) Excess Liability - Follow Form to underlying insurance.

(2) The Consultant's insurance shall be primary insurance as respects performance of the Contract.

(3) All policies, except for Professional Liability, including Workers' Compensation, waive rights of recovery (subrogation) against the City, its agents, representatives, officers, officials and employees for any claims arising out of work or services performed by the Consultant under this Contract.

(4) A 30-day advance notice cancellation provision. If ACORD certificate of insurance form is used, the phrases in the cancellation provision "endeavor to" and "but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives" shall be deleted. Certificate forms other than ACORD form shall have similar restrictive language deleted.

17.2 Required Insurance Coverage.

A. Commercial General Liability. The Consultant shall maintain "occurrence" form Commercial General Liability insurance with an unimpaired limit of not less than $1,000,000 for each occurrence, $2,000,000 Products and Completed Operations Annual Aggregate and a $2,000,000 General Aggregate Limit. The policy shall cover liability arising from premises,

operations, independent Consultants, products-completed operations, personal injury and advertising injury. Coverage under the policy will be at least as broad as ISO policy form CG 00 010 93 or equivalent thereof, including but not limited to, separation of insured's clause. To the fullest extent allowed by law, for claims arising out of the performance of this Contract, the City, its agents, representatives, officers, officials and employees shall be cited as an Additional Insured under ISO, Commercial General Liability Additional Insured Endorsement form CG 20 10 03 97, or equivalent, which shall read "Who is an Insured (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of "your work" for that insured by or for you." If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.

B. Vehicle Liability. The Consultant shall maintain Business Automobile Liability insurance with a limit of $1,000,000 each occurrence on the Consultant's owned, hired and non-owned vehicles assigned to or used in the performance of the Consultant's work or services under this Contract. Coverage will be at least as broad as ISO coverage code "1" "any auto" policy form CA 00 01 12 93 or equivalent thereof. To the fullest extent allowed by law, for claims arising out of the performance of this Contract, the City, its agents, representatives, officers, directors, officials and employees shall be cited as an Additional Insured under ISO Business Auto policy Designated Insured Endorsement form CA 20 48 or equivalent. If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.

C. Professional Liability. If this Contract is the subject of any professional services or work, or if the Consultant engages in any professional services or work adjunct or residual to performing the work under this Contract, the Consultant shall maintain Professional Liability insurance covering negligent errors and omissions arising out of the Services performed by the Consultant, or anyone employed by the Consultant, or anyone for whose negligent acts, mistakes, errors and omissions the Consultant is legally liable, with an unimpaired liability insurance limit of $2,000,000 each claim and $2,000,000 annual aggregate. In the event the Professional Liability insurance policy is written on a "claims made" basis, coverage shall extend for two years past completion and acceptance of the Services, and the Consultant shall be required to submit certificates of insurance and a copy of the declaration page(s) of the insurance policies evidencing proper coverage is in effect as required above.

D. Workers' Compensation Insurance. The Consultant shall maintain Workers' Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction over the Consultant's employees engaged in the performance of work or services under this Contract and shall also maintain Employers Liability Insurance of not less than $500,000 for each accident, $500,000 disease for each employee and $1,000,000 disease policy limit.

17.3 Cancellation and Expiration Notice. Insurance required herein shall not expire, be canceled, or materially change without 30 days' prior written notice to the City.

18. **RIGHT TO NOTICE** - Any provision for repossession of equipment without notice is hereby deleted. However, the City does recognize a right of repossession with notice.

19. **ACCELERATION** - Any reference to acceleration of payments in the event of default or non-funding is hereby deleted.

20. **CONFIDENTIALITY** - Any provision regarding confidentiality of the terms and conditions of the Contract is hereby deleted. City contracts are public records under the Arizona Public Records Law.

21. **AMENDMENTS** - All amendments, modifications, alterations or changes to the Contract shall be in writing and signed by both parties. No amendment, modification, alteration or change may be made to this addendum without the express written approval of the Manager, Construction and Contracting Division, City of Buckeye.

THEREFORE, the City of Buckeye by its City Mayor has hereunto subscribed his name on this date: September 15, 2020.

CITY

THE CITY OF BUCKEYE, ARIZONA
an Arizona Municipal corporation

By: _____
Jackie A. Meck, Mayor

ATTEST:

_____
Lucinda Aja, City Clerk

RECOMMENDED:

_____
Christopher A. Williams, Manager
Construction & Contracting Division

APPROVED AS TO FORM:

_____
City Attorney

CONSULTANT:
SUNRISE ENGINEERING, INC.

By:_____
Name

Principal/Engineering Manager
_____
Title

EXHIBIT A

[Scope of Work and Fee/Rate Structure]

SUNRISE ENGINEERING

Phoenix Metro Office
2045 South Vineyard, Suite 101, Mesa, Arizona 85210
TEL 480.768.8600

July 15, 2020

Paul Lopez
Deputy City Engineer
City of Buckeye Engineering Department
530 East Monroe Avenue
Buckeye, AZ 85326

Subject: **Cooperative Contract through City of Mesa for Agency Plan Review Support**

Dear Mr. Lopez,

Sunrise Engineering, Inc. (SEI) is pleased to provide the following proposal to the City of Buckeye to provide Civil Engineering Services for the above referenced project. Hereafter, "Client" refers to the City of Buckeye. SEI agrees, upon receipt of your acceptance to this agreement, to perform the following identified services in accordance with the terms and conditions contained herein.

Scope of Services

The City of Buckeye needs civil plan review assistance. SEI will provide general civil plan review services as requested by the City, which are necessary and associated with the requests of the City, within generally accepted industry standards. These services may include:

1. Civil plan reviews generally consisting of development applications, final engineering plans, preliminary and final plats, right-of-way legal descriptions, easement legal descriptions, reports, specifications and other project related documents. Civil plan reviews will begin five feet outside of buildings. Building plans and planning applications are excluded.
2. Providing comments in an itemized list format and/or directly on plans in the City's preferred format.
3. SEI will provide a civil engineering plan reviewer with relevant experience to assist City staff with civil plan review. The plan reviewer will work in City of Buckeye offices for an average of 40 hours per week for nine (9) months (October 2020 through June 2021). At a billing rate of $130 per hour, this task will expend no more than $225,000 through the end of the 2020/2021 fiscal year.
4. If requested by the City, SEI staff can work from a Sunrise office or another remote location if necessary. The City may provide a computer workstation for remote access when applicable.
5. Correspond or meet with development services applicants related to plan review on behalf of the City of Buckeye.
6. Act in consulting and/or advisory roles to the City on subjects which fall within SEI's area of competence and as request by the City.
7. Provide other miscellaneous services as requested by the City while onsite.

Creating solutions that work and relationships that last.

sunrise-en 1016

Fees

SEI agrees to perform the above listed services on a time and materials not to exceed basis. Any work outside the scope of work will be performed on a time and materials basis at the standard plan review rate listed herein or through a contract amendment.

The **Total Not to Exceed budget** for this engagement will be **$225,000** which includes one (1) hour of travel for each business day worked at the City of Buckeye and every hour worked in City offices as described herein.

Scope of Work Conditions

A. The City will provide a computer workstation and a designated office or cubicle workspace.
B. The City's typical work week is Monday through Thursday, 7:00 am to 6:00 pm.
C. The Onsite Civil Plan Reviewer reserves the right to conduct non-City business at the City outside of scheduled hours. This will be non-billable time to the City, and will not utilize City property or equipment for non-City activity.
D. SEI reserves the right to change or switch reviewer provided at any time and for any reason.

If you are interested in having us complete the services outlined in this proposal, please execute the agreement below and return one copy to our office. Client will be billed monthly based on the amount of work completed for this task. SEI will invoice the Client at the beginning of each month for services performed during the previous month. Payment is due 30 days from the date of the invoice.

If you have any questions regarding this proposal, please contact me at (480) 768-8600. We look forward to working with you on this project.

Sincerely,

Sunrise Engineering, Inc.

Geoffrey S. Child, P.E.
Principal/Engineering Manager

Accepted and Agreed:
City of Buckeye Engineering Department

By: _____
Signature

_____
Printed Name

Title: _____
Print Title

Date: _____

EXHIBIT B

[City of Mesa Cooperative Contract]



CITY OF MESA, ARIZONA

DESIGN PROFESSIONAL MASTER CONTRACT

On-Call Services: General Engineering

CONTRACT NO. MA21000035

Version date: June 30, 2019

CITY OF MESA, ARIZONA
ENGINEERING DEPARTMENT

DESIGN PROFESSIONAL MASTER CONTRACT
On-Call Services: General Engineering

CONTRACT NO. MA21000035

THIS CONTRACT is made and entered into on the 17th day of August, 2020, by and between City of Mesa, an Arizona municipal corporation, hereinafter called ("City") and the "Design Professional" designated below:

City and Design Professional agree as follows:

ARTICLE 1 – PARTICIPANTS AND PROJECT

CITY: **City of Mesa**
Project Manager: Rob Kidder
Telephone: 719-209-3957
Email: Rob.Kidder@mesaaz.gov

DESIGN PROFESSIONAL: **Sunrise Engineering**
2045 S. Vineyard, Ste. 101
Mesa, AZ 85210
Design Professional Representative: Geoffrey Child
Telephone: 480-768-8600
E-mail: gchild@sunrise-eng.com

ARTICLES

1. **Master Agreement:** This is a Master Contract providing the basis by which the City may issue, and Design Professional may accept, an authorization to perform work for or in relation to a specific project. This Contract shall govern all contracts and other agreements between the City and Design Professional, unless expressly excluded, in writing, in such contract or agreement.

   a. Authorization by the City to perform work and acceptance by Design Professional of specific work shall be made by separate "Project Order," as set forth in the attached Exhibit A. The terms and conditions set forth herein, and attached hereto, including any and all Exhibits and properly adopted amendments or modifications thereto, are expressly agreed to by Design Professional and shall be applicable for any and all work performed by Design Professional for the City and shall be incorporated (whether specifically referenced or not) into every Project Order, Change Order, Contract or Agreement entered into between Design Professional and the City. This Master Contract does not obligate or require the City to offer any Project Order to Design Professional, and no Contract in relation to any specific work shall be entered into until a Project Order therefore has been fully executed by the City and Design Professional.

   b. Agreement to the terms set forth herein is a material and necessary precondition and inducement to the City entering into this Master Contract, and each Project Order, with Design Professional.

   c. **Contract Time:** This Contract has a base period of one (1) year and two option periods of one (1) year each that may be exercised if it is in the best interest of City to do so. Any exercise of

any option to renew this Contract beyond the base period will only be effective upon written notice from the City.

2. **Issuance of Project Orders:** The City may, at its sole discretion, issue a Project Order in the form attached hereto as Exhibit A, to Design Professional to perform the Services specified in the Project Order ("Services"), and upon acceptance by the Design Professional, each Project Order, together with this Master Contract, shall constitute the Contract for performance of the Services set forth in the Project Order. The amount to be paid by the City for the Project under each Project Order is the Contract Price for the Project Order. The Contract price includes the Contract price for the Work. The Contract Price for any Project Order will be a not-to-exceed order subject to the following:

   a. The cumulative Contract Price for this Master Agreement shall not exceed $1,000,000.00, per year from begin date.

   b. The cumulative sum of the Project Orders performed by Design Professional during any twelve (12) month term shall not exceed $1,000,000.

   c. There is no limit on the number of Project Orders that City may issue to Design Professional during any twelve (12) month term of this Contract or during the entire period this Contract is in effect.

3. **General Conditions and Specifications:** The City has adopted standard General Conditions which apply to all construction projects and construction contracts entered into by the City ("General Conditions"). The City has also adopted and operates under the Standard Specifications and Details set forth in Section 3 of the General Conditions ("Standard Specifications"). Design Professional must be aware of and incorporate the requirements of the General Conditions and the Project Specific Provisions as they apply to the Design Professional's performance of the Services under each Project Order and into all specifications, details, drawings, and/or other documents generated under this Master Contract. Unless otherwise provided herein, the definitions in the General Conditions shall apply to this Master Contract and all documents related to this Master Contract and all Project Orders. Any questions concerning the applicability of any specific provisions of the General Conditions or Specifications to the Project or the Services shall be directed in writing to the City Engineer. The General Conditions and the Project Specific Provisions are available on the Internet at: http://mesaaz.gov/business/engineering/engineering-contracts

4. **Scope of Services:** The Services include any and all services reasonably contemplated, normally included, and necessary to complete the Scope of Services in a professional manner with due diligence and in a timely manner. Design Professional shall perform the Services required by, and as outlined in Exhibit A to the satisfaction of the City's Project Manager, exercising the degree of care, skill, diligence and judgment a design professional experienced in the performance of such Services for design, construction, and/or facilities of similar scope, function, size, quality, complexity and detail to the Project in urban areas in the State of Arizona, would exercise at such time, under similar conditions. Design Professional shall, at all times, perform the required services consistent with generally accepted engineering principles and design practices. Design Professional shall:

   For submittal guidelines, Design Professional shall categorize scope as outlined in City of Mesa Engineering Department Submittal Guidelines available on the internet at http://mesaaz.gov/business/engineering/submittal-process-guidelines.

   a. Prepare "Scope" as more specifically described in Exhibit A.

   b. Follow and comply with the Arizona Utility Coordinating Committee ("AUCC") Public Improvement Project Guide as directed by the City.

   c. If requested by the City, attend Project Team meetings, Project Management meetings, Project workshops, special Project meetings, construction document rolling reviews, public meetings and partnering sessions. Design Professional attendance at design or other meetings in which

Design Professional is provided the opportunity, but does not actively participate and/or is not properly prepared, is not acceptable. Repeated instances of non-participation and/or lack of preparedness shall be grounds for termination of this Contract for default. Design Professional when requested by City, shall attend, make presentations and participate as may be appropriate in public agency and or community meetings relevant to the Project. Design Professional shall provide drawings, schedule diagrams, budget charts and other materials describing the Project, when their use is required or appropriate in any such public agency meetings.

d. Design Professional shall schedule and conduct a field review of the proposed improvements at each milestone with the City PM. Review participants shall include, at a minimum, the Design Professional and the City PM.

e. If requested by the City, prepare and submit a detailed estimate of the total cost of the Project through completion in such detail and format as required by the City.

f. If the Services include construction phase services and/or contract administration during the construction of the Project, provide, at no additional cost to the City, such services, including without limitation inspections, attending meetings, responses to request for information, review of submittals, generation of punch lists, and clarification of drawings, designs, and/or specifications as may be necessary to complete the Project, and/or as may be reasonably requested by the City. All construction phase Services provided by Design Professional shall comply and be consistent with the requirements of the General Conditions on Design Professional, the Contractors involved in the Project, and the City.

g. If requested by the City, provide the City with "Record" drawings at the completion of the Project, in such form and detail as the City may require.

5. **Design within Funding Limitations:** Design Professional shall accomplish the Services so that the Construction Contract for the Project may be bid and awarded by the City at a total Contract Price that does not exceed the Estimated Contract Price as set forth below:

a. The Estimated Contract Price for the Project shall be set forth in each Project Order.

b. If the lowest responsive and responsible bid or proposal Contract Price exceeds the Estimated Contract Price, Design Professional shall perform such redesign and other Services as are necessary to permit the rebidding and award of the Construction Contract for the Project within the Estimated Contract Price (collectively the “Redesign Services”). The Redesign Services shall be performed at no additional cost to the City, unless City and Design Professional agree that the cause of the Estimated Contract Price being exceeded are beyond the reasonable control of Design Professional and could not have been anticipated by Design Professional (such as unanticipated material changes in the scope of the Project by the City; unknown, unusual and not reasonably anticipated material existing conditions; or significant and unforeseen increases in construction and/or material costs.

c. Design Professional shall promptly (and in no event later than finalization and publication of the request for bids, request for proposals, or request for statements of qualifications, for the construction of the Project) advise the City Project Manager in writing as soon as Design Professional believes, or should realize that the design for the Project will likely cause the Estimated Contract Price to be exceeded. Failure to give timely notice pursuant to this subsection will constitute a waiver of Design Professional’s right to assert a claim for additional compensation for any Redesign Services.

6. **Time:** Time is of the essence of this Master Contract and each Project Order. Design Professionals shall complete all Services within the schedule set forth in the Project Order, and Design Professional shall strictly comply with said schedule and failure to do so, without prior the written agreement of the City, shall be a material breach of this Master Contract. Design Professional shall promptly respond (and in no event more than ten (10) calendar days after receiving the request) to any requests for

approvals, information or clarification within sufficient time to allow the City to timely respond to the contractor(s) or other parties involved in the Project, and so as to not delay the Project.

7. **Additional Services:** Payment for additional services shall be made only if such additional services are expressly approved, in writing, by the City prior to the additional services being performed. The City shall issue a Project Order modification for any approved additional services. The City shall not pay for any costs not expressly designated as reimbursable in the Project Order or the written approval for the additional work.

8. **Corrections:** Design Professional shall promptly provide, at no additional cost to the City, any and all corrections, modifications, additional documents, or other items that may be necessary to correct any errors and/or omissions in the documents, designs, specifications, and/or drawing provided by Design Professional.

9. **Quality/Special Features:** Design Professional is responsible, to the extent necessary to perform the Services, at no additional charge to the City, to fully familiarize itself with the special and/or unique qualities and/or requirements of the Services, the Project, the Project site, and the City. Notwithstanding the foregoing, Design Professional shall not be required to undertake or perform geotechnical investigation, materials sampling or testing, construction cost estimating, or other special investigation of existing conditions unless the same is included in the Scope of Services. The City's determination as to the level of quality required and on all aesthetic issues shall be final and binding.

10. **Coordination:** Design Professional shall be responsible for coordinating the Services, and all designs, drawings and/or specifications developed in relation thereto, with the City Engineering Department and other departments or agencies within the City, other design professionals, and other contractors involved in the Project, as well as the other designs, drawings, and/or specifications for the Project. Design Professional shall also cooperate with the City in communicating with, obtaining necessary approvals or permits from, and responding to, any applicable government entity or regulatory agency, including participation in any hearings or meetings.

11. **Key Personnel:** Design Professional shall utilize the key personnel listed in Design Professional's proposal to the City for each Project Order. Design Professional shall not change key personnel, not utilize the listed key personnel, or utilize any other key personnel without the prior written approval of the City Project Manager. Any substituted personnel shall have the same or higher qualifications as the personnel being replaced.

12. **Fee and Reimbursable Expenses:** The total Project Order Price shall be set forth in each Project Order ("Contract Amount").

    a. **Fee:** The City shall pay Design Professional a not-to-exceed fee for actual costs incurred, in installments based upon monthly progress reports per Project Development Guidelines Section VI, Sub-Section B – Consultant Responsibilities (4b), and detailed invoices submitted by Design Professional in such form as approved by the City, subject to the following limitations.

        1. Monthly progress reports shall include a summary of costs billed by labor category and tasks and shall be formatted to permit comparison of actual-to-proposed costs and a breakdown of costs incurred by each subconsultant.

    b. **Reimbursable Expenses:** No reimbursable expenses or costs of any kind shall be paid by the City unless expressly approved by the City in writing before they are incurred. Any approved reimbursable expenses will be paid at the actual cost without any markup and will be paid only after they are incurred.

        1. US General Services Administration (GSA) shall apply.

        2. In order to receive reimbursement for lodging, Design Professionals are required to stay at lodging within the City of Mesa, unless City provides prior written authorization. Hotel

taxes and fees may be included, but only to the extent the total does not exceed the GSA's then-current maximum lodging rate.

3. If the Design Professional has a local office (Phoenix-Metro area), Design Professional will not be reimbursed for any travel expense, including mileage.

4. Incidental Expenses. Reimbursement for incidental expenses shall be limited to actual fees, such as airport parking fees, toll fees, taxi fare and tips, and personal mileage to and from Contractor's "home" airport. Reimbursement shall not include any personal expenses including, but not limited to, personal items, alcoholic beverages, entertainment, and traffic/parking fines.

13. **Payment:** Subject to the limitations set forth in Article 12 above, the City shall make payments within thirty (30) days of approval by the City of Design Professional's submittals. If a dispute over payment arises, and during all claims resolution proceedings, including mediation and arbitration, Design Professional shall continue to render the Services in a timely manner. Payment by the City does not constitute acceptance by the City of the Services or Design Professional's performance, nor does payment constitute a waiver of any rights or claims by the City.

14. **Payment Documentation:** As a necessary precondition to any payment under this Master Contract, the City may require Design Professional to provide such certifications; lien waivers (in statutory form); and proofs of performance, costs, and/or percentage of completion as may be reasonably required by the City, to ensure that payment is then due and owing pursuant to the payment terms set forth in this Master Contract and/or any Project Order.

15. **Taxes:** Design Professional shall be solely responsible for any and all tax obligations which may result out of the Design Professional's performance of this Master Contract. The City shall have no obligation to pay any amounts for taxes, of any type, incurred by the Design Professional.

16. **Information Provided by the City:** The City shall provide to Design Professional information regarding requirements for the Project including relevant budget information, project schedules, identities of Project participants, and related designs, drawings, and specifications. Design Professional shall be entitled to rely on such information furnished by the City, provided that Design Professional shall promptly notify the City, in writing, of any information that Design Professional believes is missing, unclear or insufficient for the successful completion of the Project and the Services.

17. **Use of Documents:** Upon execution of this Master Contract, and each Project Order, the Design Professional and all design professionals and sub-consultants working under or for Design Professional, hereby grant to the City an irrevocable, exclusive, royalty-free perpetual license to reproduce and use any and all data, documents (including electronic documents and files), designs, drawings and specifications prepared or furnished by Design Professional pursuant to this Agreement ("the Instruments of Service"), for the purposes of construction and completing the Project, including for the use, sales, marketing, repair, maintenance, modification, expansion, remodeling and/or further development of the Project or any portion thereof (including making derivative works from Design Professional's Instruments of Service), or for construction of the same type of Project at other locations, by the City and others retained by the City for such purposes. This license shall extend to those parties retained by the City for such purposes, including other design professionals. The license granted hereunder shall include all things included in the definition of "Architectural Works" as used in the U.S. Architectural Works Copyright Protection Act, as amended from time to time. The Design Professional shall obtain, in writing, similar non-exclusive licenses from its design professionals, and sub-consultants. The license granted hereunder shall survive any termination of the Agreement and the completion of the Project. Upon completion of the Project and/or termination of the Agreement for any reason, Design Professional shall deliver to the City full sized and usable copies (including any and all CAD, BIM, and/or computer files) of all data documents, designs, drawings and specifications generated by Design Professional, including those generated by any suppliers, subcontractors or sub-consultants. The City shall retain all rights and ownership of all

documents, designs, drawings, specifications, and/or styles provided to Design Professional by the City in relation to each Project Order and the respective Project, and Design Professional shall not utilize any such material in relation to any other work or project. Design Professional may re-use any standard specifications and details included in the Instruments of Service that were not developed by Design Professional specifically for the Project.

18. **Insurance:** Design Professional shall provide insurance as set forth on Exhibit B hereto, as well as any additional insurance required under each Project Order.

19. **Termination:**

a. **Termination by the Design Professional:** If the City fails to make payment of undisputed amounts due under a specific Project Order following fourteen (14) days' written notice to the City, the Design Professional may terminate the Project Order and recover from the City payment for Services actually executed and approved and accepted by the City. Under no circumstances shall City have any liability for any costs, expenses, overhead, or profits in relation to any work not actually performed, or for any future or anticipated profits, recovery, damages, expenses, or loses.

b. **Termination by the City:** The City may terminate the Project Order or this Master Contract if the Design Professional substantially breaches any obligation under a specific Project Order or this Master Contract, or any other contract between the City and Design Professional, following seven (7) days' written notice to Design Professional. The City may also recover the damages suffered by the City as a result of the breaches and/or as a result of the termination. The City may also terminate a specific Project Order or this Master Contract at any time for its convenience by written notice to Design Professional specifying the termination date.

c. **Payment Upon Termination:** In the event of termination, the City shall pay to Design Professional only such compensation, including reimbursable expenses, due for Services properly performed on the Project prior to the termination date, minus any offsets due the City for any reason. Upon any termination of this Master Contract and/or any Project Order, no further payments shall be due from the City to Design Professional unless and until Design Professional has delivered to the City full sized and usable copies (including any and all CAD, BIM, and/or computer files) of all documents, designs, drawings, and specifications generated by Design Professional in relation to the Project.

20. **Subcontractors:** During performance of this Master Contract and/or any Project Order, the Design Professional may engage such additional subcontractors or subconsultants (collectively "subcontractors") as may be required for the timely completion of the Services. The addition of any subcontractors shall be subject to prior written approval by the City. In the event of subcontracting, the sole responsibility for fulfillment of all terms and conditions of this Master Contract and each Project Order rests with the Design Professional.

21. **Indemnification:** The Design Professional shall have and assume the indemnity obligations set forth in Section 12 of the General Conditions.

22. **Dispute Resolution:** All disputes and claims shall be resolved as set forth in Appendix 8 of the General Conditions.

23. **Compliance with Federal and State Laws:** In performance of the Services under all Project Orders and this Master Contract, Design Professional shall fully comply with all applicable Laws, Regulations, or Legal Requirements (as defined in the § 2 of the General Conditions) applicable to Design Professional's Services and/or the Instruments of Services under each Project Order and each Project, and this Master Contract; as well as any additional requirements set forth in any Project Order.

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24. **Miscellaneous Provisions:** The Miscellaneous Provisions in Section 14 of the General Conditions shall apply to this Master Contract and each Project Order, with the term "Design Professional" replacing "Contractor," and the word "Services" replacing "Work."

25. **Complete Contract:** This Master Contract and the Exhibits hereto, together with each Project Order, and the designs, drawings, and specifications relating to the Services, represent the complete and integrated agreement between the City and Design Professional, and supersede all prior negotiations, representations or agreements, either written or oral. This Contract and/or any Project Order may be amended only by written instrument signed by both the City and Design Professional.

26. **Protest Policy:** Refer to City of Mesa Protest Policy: Procurement Rules at http://mesaaz.gov/home/showdocument?id=8712, Article 6. Protests, Appeals, Debarments, Confidential Information, and Contract Disputes.

27. **Exhibits:**
A – Project Order Form
B – Insurance Requirements

IN WITNESS WHEREOF, the parties hereto have executed this Design Professional Master Contract through their duly authorized representatives and bind their respective entities as of the effective date.

"CITY"
CITY OF MESA

Signature Kari Kent
Name Kari Kent
Title Assistant City Manager

ATTEST:
Signature Elizabeth M. Huning
Name Elizabeth M Huning
Title City Engineer

"DESIGN PROFESSIONAL"
SUNRISE ENGINEERING

Signature Geoffrey S. Child
Name GEOFFREY S. CHILD, P.E.
Title PRINCIPAL / ENGINEERING MANAGER

STATE OF ARIZONA)
) ss.
County of Maricopa)

SUBSCRIBED AND SWORN TO before me, the undersigned notary public, by Geoffrey S. Child, who was identified as the Principal / Engineering Manager of Sunrise Engineering, on this 30th day of July, 2020.

Karla J. Grimm
Notary Public

My Commission expires: April 9, 2024

KARLA J GRIMM
Notary Public - Arizona
Maricopa County
Commission # 579006
My Comm. Expires Apr 9, 2024

EXHIBIT A – PROJECT ORDER FORM

CITY OF MESA, ARIZONA
ENGINEERING DEPARTMENT

PROJECT NAME:_____
PROJECT ORDER NO.: _____ **PROJECT NO.:** _____
MASTER CONTRACT NO.:_____, **DATED** _____

THIS PROJECT ORDER is made and entered into on the _____day of _____, 20___, by and between the City of Mesa, an Arizona municipal corporation ("City") and the "Design Professional" designated below. This Project Order is entered into pursuant to and incorporates herein the terms and provisions of the Design Professional Master Contract. This Project Order, including all of the Contract Documents and Exhibits, shall be the Contract between the parties for the Work.

City and Design Professional agree as follows:

CITY: **City of Mesa**
Project Manager:
Telephone:
E-mail:

DESIGN PROFESSIONAL: **(Name)**
(Address)
Design Professional Representative:
Telephone:
E-mail:

PROJECT DESCRIPTION:

PROJECT SITE ADDRESS/LOCATION:

SCOPE OF WORK, DELIVERABLES, AND PROJECT SCHEDULE/DURATION: Attached Exhibit A

ESTIMATED CONTRACT PRICE (Construction): $_____

TOTAL PROJECT ORDER PRICE (To be paid to Design Professional):

a. **Fee**: The method of payment for this contract is Hourly, Not-to Exceed. The amount paid shall not exceed $_____ for actual costs incurred, based on the negotiated hourly rates and reimbursement schedule as defined in Exhibit A, Scope of Services. The City shall pay Design Professional a not-to-exceed fee for actual costs incurred, in installments based upon monthly progress reports per Project Development Guidelines Section VI, Sub-Section B – Consultant Responsibilities (4b), and detailed invoices submitted by Design Professional in such form as approved by the City, subject to the following limitations:

   1. Monthly progress reports shall include a summary of costs billed by labor category and tasks and shall be formatted to permit comparison of actual-to-proposed costs and a breakdown of costs incurred by each subconsultant.
   2. Prior to approval of the preliminary documents (30% plans), the billed amount shall not exceed 40% of the total Contract Amount.
   3. Prior to approval of the final design documents deliverable under the Services, the billed amount shall not exceed 90% of the total Contract Amount.
   4. If the Services include the preparation of studies, design concepts, or other investigations, progress payments shall not exceed 90% of the total Contract Amount prior to submittal of the final report deliverables.

SAMPLE

5. Additional services included in the Services, such as bidding assistance, shop drawing review, contract documents interpretation, etc., shall be paid for based on the actual completed services.

b. **Reimbursable Expenses:** No reimbursable expenses or costs of any kind shall be paid by the City unless expressly approved by the City in writing before they are incurred. Any approved reimbursable expenses will be paid at the actual cost without any markup and will be paid only after they are incurred.

1. US General Services Administration (GSA) shall apply.
2. In order to receive reimbursement for lodging, Design Professionals are required to stay at lodging within the City of Mesa, unless City provides prior written authorization. Hotel taxes and fees may be included, but only to the extent the total does not exceed the GSA's then-current maximum lodging rate.
3. If the Design Professional has a local office (Phoenix-Metro area), Design Professional will not be reimbursed for any travel expense, including mileage.
4. Incidental Expenses. Reimbursement for incidental expenses shall be limited to actual fees, such as airport parking fees, toll fees, taxi fare and tips, and personal mileage to and from Contractor's "home" airport. Reimbursement shall not include any personal expenses including, but not limited to, personal items, alcoholic beverages, entertainment, and traffic/parking fines.

UNIQUE INSURANCE REQUIREMENTS (IF ANY): Attached Exhibit B

IN WITNESS WHEREOF, the parties hereto have executed this Project Order through their duly authorized representatives and bind their respective entities as of the effective date.

"CITY"
CITY OF MESA

Signature _____
Name _____
Title _____

ATTEST:

Signature _____
Name _____
Title _____

"DESIGN PROFESSIONAL"

Signature _____
Name _____
Title _____

STATE OF ARIZONA)
) ss.
County of Maricopa)

SUBSCRIBED AND SWORN TO before me, the undersigned notary public, by_____, who was identified as the _____ of _____, on this _____ day of _____, 20_____.

_____
Notary Public

My Commission expires:

_____

SAMPLE

EXHIBIT B – INSURANCE REQUIREMENTS

(4 PAGES, INCLUDING THIS PAGE)
MINIMUM INSURANCE REQUIREMENTS

Some of the following requirements apply to only design professionals and some apply only to contractors. Requirements will be enforced based on the type of contract.

Contractor/Design Professional shall obtain and submit to City before any Work is performed, certificates from the Contractor's/Design Professional's insurance carriers indicating the presence of coverages and limits of liability as follows.

The City only accepts the most recent version of ACORD® Certificate of Liability Insurance form with additional insured endorsements. The Builder's Risk policy (if required) and the Owners and Contractors Protective Liability (OCP) policy shall remain in effect during construction through the date of project Final Acceptance. The remainder of the insurance policies shall remain in effect during construction and through the one-year warranty period that follows project Final Acceptance, unless otherwise specified in contract documents. Proof of all required coverage(s) shall be provided by the Contractor/Design Professional.

Policy forms must include:

A. Premises and Operations coverage with no explosion, collapse or underground damage (XCU) exclusions;
B. Products and Completed Operations coverage. Contractor/Design Professional agrees to maintain this coverage for a minimum of 10 years following completion of the Contractor/Design Professional Work and to continue to name City as an Additional Insured for the entire 10-year period;
C. Blanket contractual coverage for the indemnity/hold harmless agreements assumed in this Subcontract and in the Prime Contract. Any Employee Exclusion will be deleted;
D. Broad Form Property Damage coverage, including completed operations or its equivalent;
E. An endorsement in a form acceptable to the City, naming City, any other party required to be named as an additional insured under the Contract Documents, and any other parties in interest as Additional Insured(s) under the coverage specified under Comprehensive General Liability or Commercial General Liability. Any form that does not grant additional insured status for both the ongoing operations and products/completed operations coverages IS NOT ACCEPTABLE;
F. An endorsement in a form acceptable to the City, stating: "Such coverage as is afforded by this policy for the benefit of the additional insured(s) is primary and except for any builder's risk property insurance coverage that may be purchased and maintained by City in connection with the Project, any other coverage maintained by such additional insured(s) shall be non-contributing with the coverage provided under this policy;"
G. Coverage SHALL BE on an "Occurrence" form. **"Claims Made"** and **"Modified Occurrence"** forms are not acceptable;
H. Coverage to include general aggregate limits on a "per project" basis;

1. Workers' Compensation (required for both Contractors/Design Professionals):

Coverage A. Statutory Benefits
Coverage B. Employer's Liability

Bodily Injury by accident	$1,000,000 each accident
Bodily Injury by disease	$1,000,000 policy limit
Bodily Injury by disease	$1,000,000 each employee

2. Commercial Auto Coverage (required for both Contractors and Design Professionals):

Auto Liability limits of not less than $1,000,000 Combined Single Limit (Each Accident), combined Bodily Injury and Property Damage Liability insurance. Certificate to reflect coverage for "Any Auto, All Owned, Scheduled, Hired, or Non-Owned."

If the Contract Documents require Contractor/Design Professional to remove and haul hazardous waste from the Project site, or if the Project involves such similar environmental exposure, pollution liability coverage equivalent to that provided under the ISO Pollution Liability-Broadened Coverage for Covered Autos Endorsement shall be provided, and the Motor Carrier Act Endorsement (MCS 90) shall be attached.

3. Commercial General Liability (required for both Contractors/Design Professionals):

Each Occurrence Limit	$1,000,000
Personal Injury/Advertising Injury Limit	$1,000,000
Products/Completed Operations Aggregate Limit	$1,000,000
General Aggregate Limit (other than Products/Completed Operations)	$2,000,000

4. Excess Liability:

Umbrella or Excess Liability may be used to satisfy the above Auto and General Liability coverage requirements and limits to reach a total combined limit of:

Auto	Amount sufficient to cover difference in limits when compared to minimum coverage required.
Each Occurrence	Amount sufficient to cover difference in limits when compared to minimum coverage required.
Aggregate	Amount sufficient to cover difference in limits when compared to minimum coverage required.

5. Professional Liability (required for Design Professionals only):

(Applicable only to Design Professional services which are part of Work.)

Coverage provided must have no exclusion for design-build projects. Contractor/Design Professional must provide evidence of coverage for three (3) years beyond completion of the Project.

Coverage Amount: $1,000,000 per claim/$2,000,000 aggregate, unless higher coverage limits are required under the Contract Documents, in which case such higher limits shall apply.

6. Pollution Legal Liability: $1,000,000 per Occurrence
$1,000,000 Aggregate Limit

(Applicable to any pollutants or hazardous waste exposures as part of Work, except for CM@Risk Pre-Construction services work.)

Contractor shall maintain insurance covering losses caused by pollution conditions (including mold) that arise from the Work.

7. Builders Risk (if required, will be required for Contractors only):

Contractor shall include in its Cost Proposal the cost to obtain builders risk or "all risk" or equivalent policy form coverage in the amount of the initial Contract Price. This required insurance coverage is required on projects that are typically outside the public rights-of-way whereby the City is constructing or modifying a public building. The City may, at the City's sole option, purchase and maintain, in a company or companies lawfully authorized to do business in the jurisdiction in which the Project is located, property insurance written on a builders risk "all-risk" or equivalent policy form in the amount of the initial Contract Price, plus value of subsequent contract modifications and cost of materials supplied or installed by others, comprising total value for the entire Project at the site on a replacement cost basis. This insurance shall include interests of the City, Contractor and its subcontractors in the Project, and shall include, without limitation, insurance against the perils of fire and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, earthquake, flood, windstorm, falsework, testing and startup, temporary buildings and debris removal, including demolition occasioned by enforcement of any applicable legal requirements. City shall bear the responsibility for the deductible for such coverage when a loss affects the Work, provided, however, to the extent such loss is attributable to the negligent or wrongful acts or omissions of Contractor or someone for whom Contractor is responsible, Contractor shall bear the responsibility of the deductible. Such property insurance will not cover any tools or equipment owned or rented by Contractor that will not be incorporated into the Project, including trailers, excavators, scaffoldings, or forms. Contractor is responsible for providing insurance coverage for such items.

8. Owners and Contractors Liability Policy (OCP) (required for Contractors only):

Owners and Contractors Liability Policy: Prior to the execution of the Contract the Contractor shall provide a separate policy of insurance in the amount of $2,000,000, per occurrence, at its sole cost and expense, naming the City of Mesa, a Municipal Corporation and all its agents, representatives, officers, directors, officials and employees as the insured. The Policy shall be primary and not contributory to any insurance maintained by the City of Mesa and shall remain in effect through date of Final Acceptance.

9. Other Requirements:

A. All policies must be written by insurance companies whose rating, in the most recent AM Best's Rating Guide, is not less than A-. All coverage forms must be acceptable to City.

B. ACORD® Certificate of Liability Insurance form with the required endorsements evidencing the required coverages must be PROVIDED to the City prior to commencement of any Work. Failure of City to demand such certificate or other evidence of full compliance with these insurance requirements or failure of City to identify a deficiency from evidence that is provided shall not be construed as a waiver of Contractor's/Design Professional's obligation to maintain such insurance. City shall have the right, but not the obligation, to prohibit Contractor/Design Professional or any of its subcontractors from entering the Project site until such certificates or other evidence that insurance has been placed in complete compliance with these requirements is received and approved by City.

C. The policies shall provide waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay for the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.
The following policies shall include Waiver of Subrogation endorsements:

Workers' Compensation
Commercial Auto Coverage
Commercial General Liability
Pollution Legal Liability

D. The following policies shall include Additional Insured endorsements:
Commercial Auto Coverage
Commercial General Liability
Excess Liability
Builders Risk

E. Contractor/Design Professional shall be responsible for satisfying any deductible or self-insured retention with respect to any of the coverages required by the Contract Documents to be provided by Contractor/Design Professional.

F. City reserves the right, in its sole discretion, to require higher limits of liability coverage if, in City's opinion, operations by or on behalf of Contractor/Design Professional create higher than normal hazards and, to require Contractor/Design Professional to name additional parties in interest to be Additional Insureds.

G. In the event that rental of equipment is undertaken by Contractor/Design Professional or any Subcontractor to complete and/or perform the Work, Contractor/Design Professional agrees that it shall be solely responsible for such rental equipment. Such responsibility shall include, but not be limited to protection against theft, fire, vandalism and use by unauthorized persons.

H. In the event that materials or any other type of personal property ("personal property") is acquired for the Project or delivered to the Project site, Contractor/Design Professional agrees that it shall be solely responsible for such property until it becomes a fixture on the Project, or otherwise is installed and incorporated as a final part of the Project. Such responsibility shall include, but not be limited to protection against theft, fire, vandalism and use by unauthorized persons.

I. If City elects to utilize an Owner Controlled Insurance Program ("OCIP") which provides coverage for the Work, the Contractor/Design Professional shall comply with all provisions of any such OCIP.

J. Any additional provisions specific to the Project are attached. In the event of any conflict between the attached terms and the terms of this Exhibit, Contractor/Design Professional shall comply with the more stringent provisions.

If a policy does expire, a renewal certificate of the required coverage shall be sent to the City of Mesa not less than five (5) days prior to the expiration date or, if a policy is to be cancelled, changed or not renewed, a proper notice of such action shall be sent to the City not less than ten (10) days prior to any such action by the insurance company.

Notice shall be sent to: City Engineer
City of Mesa
P.O. Box 1466
Mesa, AZ 85211-1466

or

Fax to 480-644-3392
Attention: City Engineer

EXHIBIT C

City of Mesa
[Request for Qualifications
For Professional Services]

CITY OF MESA, ARIZONA
ENGINEERING DEPARTMENT

REQUEST FOR QUALIFICATIONS
FOR PROFESSIONAL SERVICES

On-Call Consulting Services for General Engineering Services

Version date: November 1, 2019

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REQUEST FOR QUALIFICATIONS

On-Call Consulting Services for General Engineering

The City of Mesa is seeking qualified consulting firms or teams to provide professional services on an on-call basis in the category of **General Engineering.**

All qualified firms that are interested in providing these services to the City of Mesa are invited to submit their Statement of Qualifications (SOQ). All SOQs must comply with the requirements specified in this Request for Qualifications (RFQ).

SECTION I – PROJECT DESCRIPTIONS

From this solicitation, the Engineering Department will establish a list of on-call consultants for General Engineering Services projects. This category is further defined below:

General Engineering Services typically involve studies, new construction, upgrades, extensions, rehabilitations or other modifications. Typical projects include (but are not limited to) grading, drainage improvements, traffic studies, Storm Water Pollution Prevention Plan (SWPPP), surveying, structural engineering (i.e. special inspections, structural ratings, bridge and minor building structural designs), and miscellaneous engineering.

Through this solicitation, the City of Mesa will establish a list of diversified consultants (including firms and/or teams). A minimum of three (3) consultant teams may be selected for this category/list and, once selected, will be referred to as being "on-call" for this category. The selection process will be tailored to projects that are anticipated to be served by the on-call list. Selection under this solicitation is not selection for a specific project (or projects), but rather qualification for on-call use during the term for which this solicitation is effective. A master contract will be executed between the City of Mesa and each of the selected consultant teams. When a specific project is initiated, a separate Project Order with an associated scope, schedule, and fee will be negotiated between the City of Mesa and the consultant for each specific project. Typical design tasks discussed in Section II refer to tasks that may be performed under specific projects.

The City of Mesa makes no guarantee that any consultant will receive a project or be able to enter into a specific project contractual relationship with the City of Mesa. The City of Mesa also makes no guarantee of a specific volume of work or a total contracted amount arising from this solicitation. The City of Mesa further makes no guarantee that the quantity of work (whether measured in monetary terms or otherwise) within any category will be spread equally or according to any other specific percentage split among the various consultants on the on-call list for that category.

The City intends to use the on-call lists whenever possible; however, the City of Mesa reserves the right to "direct select" consultants not on the on-call lists to perform professional services, even for work within the same category as this solicitation, when it is in the City's best interest to do so, as determined solely by the City. The City of Mesa also reserves the right to issue separate solicitation(s) for a specific project(s), even for work within the same category covered by this solicitation, when it is in the City's best interest to do so, as determined solely by the City. The City recognizes the time and expense in preparing an SOQ and anticipates using the lists whenever feasible.

The City reserves the right to establish, by future solicitation, additional categories of on-call consultants for the City's use. Said additional categories may, in some cases, overlap the disciplines and design areas for the category established under this solicitation.

In order to establish a list of on-call consultants from this one solicitation for Consultant On-Call Services for **General Engineering**, consultants are required to submit Statements of Qualifications (SOQs).

The next section discusses typical services that may be included in specific projects that ultimately are awarded under this solicitation. Said tasks are typical of this category.

SECTION II – OVERVIEW OF PROJECT PHASES

The City will partner with the consultant(s) during each project's work-order scoping stage to specifically define the scope of work for each project. The following is a summary of typical design tasks that may be included in projects' scope of work:

Task 1 – Project Management
Task 2 – Design Reports
Task 3 – Detailed Design and Construction Documents
Task 4 – Contracting Assistance
Task 5 – Construction Phase Services

SECTION III – SCOPE OF WORK

For an outline of key project tasks, refer to the Engineering Submittal Guidelines at the following website:

https://www.mesaaz.gov/business/engineering/submittal-process-guidelines

SECTION IV – PRE-SUBMITTAL CONFERENCE

No Pre-Submittal Conference will be held.

SECTION V – STATEMENT OF QUALIFICATIONS EVALUATION CRITERIA (BASED ON 1,000 POINTS)

Each Statement of Qualifications (SOQ) will be evaluated according to the following criteria:

A. General Information (100 points)

Provide a general description of the consulting firm and/or team that is proposing to provide the services, including subconsultants, if any. Provide an organizational chart showing key personnel. For each key person, provide the following information:

1. Percentage of time that each person will be committed to the project
2. Length of time with the firm
3. Applicable professional registrations
4. A statement that the firm agrees to contract with subconsultants for potholing, geotechnical investigations, structural investigations, etc., as required by the City.

B. Experience and Qualifications of the Firm/Team and Key Personnel (300 points)

1. Provide a list of similar projects on which the project team has experience. For each reference project, please provide the following information:

    a. Description of the project, including project name and location;
    b. Project owner and/or client information;
    c. Role of the firm, including a description of the services provided;
    d. Role of each key team member who worked on the reference project and the percentage of time spent by each key team member on said project; and
    e. Approximate dates services were provided.

2. List all City of Mesa projects where the firm/team provided services in the last five years, completed or on-going, that are not already included in the preceding sections.

3. Overall evaluation of the firm/team and its perceived ability to provide the required services will be considered along with the evaluators' perception of the clarity, completeness, and presentation of the Statement of Qualifications. This is to be determined by the selection panel members. No submittal response is required for this item. Information obtained from the Statement of Qualifications and from any other reliable source may be used in the evaluation and selection process.

C. Understanding of the Project and Approach to Performing the Required Services (350 points)

Discuss the firm's approach to performing the required services noted in Section I above. How does the firm intent to resolve major issues and provide technical innovations to City projects? Describe how the firm would incorporate technical innovations into City projects and how the firm's expertise can benefit the City.

D. Current Workload, Workload with the City of Mesa, and the Ability of Project Team to Start Immediately. (50 points)

This scoring criterion has two parts: overall workload and existing contracts with the City of Mesa, as further detailed below:

1. Overall Workload and Ability to Start Immediately (up to 25 points):

   Provide a table or list that summarizes the current major assignments of all key team members and how the firm would staff City projects that awarded from the Master On-Call Contract. Also include a statement as to when the team would be available to start work on this project. Firms that demonstrate their ability to start immediately and to effectively manage City projects, in addition to their current workload, may be awarded up to 25 points for this sub-category.

2. Existing Contracts with the City of Mesa (up to 25 points):

   Provide a table or list of current or pending contracts that the firm has with the City of Mesa ("pending" status refers to a project the firm has been notified they will be awarded, but the contract has not yet been executed.) Each contract need only be listed once. For example, if the firm and one or more of the proposed team/sub-firms are all employed on the same, City of Mesa project or contract, that project need only be listed once and will count as one contract (although all firms, including sub-firms, working on the project should still be identified). In the case of a firm holding a Master On-Call Contract with the City of Mesa, each active project order under the master contract will count as a separate project. If a firm has no active project orders under the Master On-Call Contract, the Master On-Call contract will not count towards the reporting requirements of this section.

   Contracts for projects within the City of Mesa's incorporated limits held by someone other than the City of Mesa municipal government (e.g., work for the school district or a private developer) need not be listed and do not count as projects under this subcategory.

   Firms, with no current or pending contracts with the City of Mesa, will be awarded 25 points. Firms, with between one (1) to three (3) current or pending contracts with the City of Mesa will be awarded 15 points. Firms with more than three (3) current or pending contracts will receive no points for this subcategory.

E. Office Location (50 points)

Identify the physical location of the lead firm's office. Fifty points will be awarded to teams whose lead firm's office is physically located within the City of Mesa's incorporated limits (not just a P.O. Box). Thirty points will be awarded to teams whose sub-firms are physically located within City of Mesa's incorporated limits. No points will otherwise be awarded for this category.

F. Reference Information (150 points)

City will award a maximum of 150 points for past performance reference information (maximum of 50 points per reference). It is the firm's responsibility to solicit and to ensure that three (3) Past Performance Verification Forms (PPVF's) are submitted directly to the City per the instructions on the Form. Any Forms in excess of three (3) will not be counted toward this requirement.

Statement of Qualifications scores will not carry over to interviews, if held.

SECTION VI – SUBMITTAL REQUIREMENTS

The Statement of Qualifications shall include a one-page cover letter that contains current company/firm contact information including a valid phone number and email address, plus a maximum of **10 pages** to address the SOQ evaluation criteria (*excluding* resumes but *including* an organization chart with key personnel and their affiliation). Resumes for each team member shall be limited to a maximum length of two pages and should be attached as an appendix to the SOQ. Minimum font size shall be 10pt. Please provide **six (6) hard copies and one (1) electronic copy (CD or USB drive) of the Statement of Qualifications by 2:00 PM, Thursday, May 28, 2020.** The City reserves the right to accept or reject any and all Statements of Qualifications**.** The City is an equal opportunity employer.

Delivered or hand-carried submittals must be delivered to the Engineering Department reception area on the fifth floor of Mesa City Plaza Building in a sealed package. On the submittal package, please display: Firm name, project number, and/or project title.

All submittals should be sent or delivered to:

CITY OF MESA
ENGINEERING DEPARTMENT
Michele Davila
Fifth Floor – Suite 500
City Plaza Building
20 East Main Street
Mesa, Arizona 85201

If a company wishes to submit a company brochure, this can be done under separate cover. The brochure will not be used in the selection process and may be retained in the City files.

Please be advised that failure to comply with the following criteria may be grounds for *disqualification*:

- Receipt of submittal by the specified deadline; please allow enough time to check in at the City Plaza security desk
- Receipt of the number of copies of the submittal specified
- Adherence to maximum page requirement
- Delivery of submittal in correct location
- Delivery in a sealed package with the project name and number for which your firm is submitting clearly labeled
- Providing a signed copy of addenda, if any, in response to this RFQ. It will be the interested firm's responsibility to check the website (see link below) for any updates, including addenda.

  http://www.mesaaz.gov/business/engineering/architectural-engineering-design-opportunities

Adherence to the maximum page criterion is critical; each page side (maximum 8 1/2" x 11") with criteria information will be counted. Pages that have project photos, charts, and graphs will be counted towards the maximum number of pages. Table of Contents pages and tabbed divider pages will not be counted if they do not contain submittal information.

SECTION VII – SELECTION PROCESS AND SCHEDULE

A Selection Committee will evaluate each SOQ in accordance with the criteria set forth in Section V above. References may be a factor in determining the final rank-ordered list; ensure the references provided are accurate. The Selection Committee will produce a rank-ordered list of the submitting firms and interviews may or may not be conducted as part of the selection process.

If interviews are not held, the City will enter into negotiations with the top ranked firm and execute a contract upon completion of negotiations. If the City is unsuccessful in negotiating a contract with the top ranked team, the City may then negotiate with the next lower ranked team until a contract is executed. The City may decide to terminate the selection process at any time.

If interviews are held, the top three (3) to five (5) ranked firms/teams will be invited by email to accept or decline the opportunity to interview. Those accepting the invitation will be sent a letter giving the criteria to be addressed in the interview and the detailed scoring that will be applied during the interview process. The City will enter into negotiations with the top ranked firm and execute a contract upon completion of negotiations. If the City is unsuccessful in negotiating a contract with the top ranked firm/team in the final list, the City may then negotiate with the next lower ranked team until a contract is executed. The City may decide to terminate the selection process at any time.

The following tentative schedule has been prepared for this selection process:

SOQs Due	**Thursday, May 28, 2020**
On-Call list announced	**Week June 22, 2020**

By submitting an SOQ, the respondent certifies that they have reviewed the City of Mesa's standard contract for professional services, including insurance requirements, and, if selected, will execute the City's required contract without modification or exception. The City of Mesa's Professional Services Contract is available on-line at the following location:
http://www.mesaaz.gov/business/engineering/engineering-contracts

SECTION VIII – GENERAL INFORMATION

RFQ Lists. This Design Services Request for Qualifications will be listed on the City's web site. The address is: http://www.mesaaz.gov/business/engineering/architectural-engineering-design-opportunities.

Compliance with Arizona Revised Statutes (ARS). Procurement of professional services by a municipality within the State of Arizona is governed by ARS Title 34. By submitting an SOQ under this solicitation, the submitter certifies that said submittal and their conduct in relation to this solicitation is in compliance with the requirements of ARS Title 34.

Contract Version Updates. If the Contract version changes after this RFQ is issued and prior to contract negotiations, the newer version of the Contracts will be in effect. It will be incumbent upon the respondent to check the City of Mesa Engineering Department's website for updates.

Instructions. The City of Mesa shall not be held responsible for any verbal instructions. Any changes to this Request for Qualifications will be in the form of an addendum. Firms are to check the City's website to see whether any addenda have been posted.
http://mesaaz.gov/business/engineering/architectural-engineering-design-opportunities

Duration of On-Call Lists. Unless otherwise determined by the City, the on-call list(s) to be established under this solicitation will become effective on the date the contracts are executed. Unless otherwise determined by the City, the on-call consultant list(s) established under this solicitation will remain valid for one (1) calendar year, with the City reserving the right to extend one or more of the on-call lists by two (2) additional one-year terms. Said extensions shall be in writing to the firm/teams on the list (or lists) to be extended.

When the list expires, the City anticipates (but makes no guarantee) that a new/replacement on-call list will be established by a separate and future solicitation. The City does not intend to do so, but also reserves the right to cancel or otherwise nullify the on-call list prior to the expiration date(s) stated herein, by written notice to the firms on said list.

If contract negotiations have formally started with a specific consultant for a specific project and/or a specific consultant has started work on a specific project prior to the time the on-call list established under this solicitation becomes effective, the City (at its discretion) will likely direct the consultant to continue work on that project (including having him/her work on subsequent phases or change order work for the same project) regardless of the consultant's status relative to the on-call list. The same exception applies when one on-call list is replaced with a subsequent on-call list (e.g., by a future solicitation when the current list expires). Consultants already employed (or involved in contract negotiations) on specific projects under force of the previous on-call list will (at the City's discretion) likely continue their work on said projects, regardless of their status relative to the newly established on-call list.

City Rights. The City of Mesa reserves the right to reject any or all Statements of Qualifications, to waive any informality or irregularity in any Statement of Qualifications received, and to be the sole judge of the merits of the respective Statements of Qualifications received. No binding contract will exist between the submitter and the City until the City executes a written contract.

Protest Policy: Refer to City of Mesa Protest Policy: Procurement Rules at http://www.mesaaz.gov/home/showdocument?id=8712, Article 6. Protests, Appeals, Debarments, Confidential Information, and Contract Disputes.

Contact with City Employees. All firms interested in this project (including the firm's employees, representatives, agents, lobbyists, attorneys, and subconsultants) will refrain, under penalty of disqualification, from direct or indirect contact for the purpose of influencing the selection or creating bias in the selection process with any person who may play a part in the selection process. This policy is intended to create a level playing field for all potential firms, to assure that contract decisions are made in public, and to protect the integrity of the selection process. All contact on this selection process should be addressed to the authorized representative identified below.

Cooperative Use of Contract. The contract awarded through this procurement process may be extended for use by other governmental agencies and political subdivisions of the State with the approval of the Consultant. Any such usage by other entities must be in accordance with the prices, terms and conditions of the City of Mesa Contract and with the ordinances, charter, rules and regulations of the entity using this Contract. Orders placed by other agencies and payment thereof will be the sole responsibility of that agency. The City shall not be responsible for any disputes arising out of transactions made by others.

Questions. Questions pertaining to the Design Services selection process or contract issues should be directed to Michele Davila of the Engineering Department at Michele.Davila@mesaaz.gov .

Also, to do business with the City of Mesa, you are required to register in our vendor system. AMS Vendor Self Service (VSS) provides vendors with a single-entry point to register, provide payment and contact information, and select commodity interests and business types. All vendors who wish to conduct business with the City will be required to update and maintain all information used for the notification of bid opportunities and issuance of payment in the VSS system. The registration guide can be found at http://www.mesaaz.gov/vendor/, the actual web portal is at the bottom of the page.

City of Mesa
Engineering Department
20 E. Main
Street
Mesa, AZ 85201

PAST PERFORMANCE VERIFICATION FORM (PPVF)

Directions to Submitting Firm: Request Public/Private Agencies, for which you have substantially completed (Professional Services, CM@R or JOC) similar work, to fill out a copy of the PPVF for three (3) similar projects. Provide this form to the Agency or Agency's representative directly responsible for oversight of the project to complete and submit via email to the City of Mesa prior to the date and time listed below. If the form is received after the date and time specified, it will not be accepted. By submitting this form, you are waiving any claim against the Agency listed for providing information regarding a project.

SOQ Due Date and Time: Thursday, **May 28, 2020 by 2:00 PM**_____

PROJECT NAME: **2020 General Engineering Services On-Consultant List**_____

PROJECT ROLE SUBMITTING FOR: (select one) ☐ **PROFESSIONAL** ☐ **CM@R** ☐ **JOC**

NAME OF COMPANY TO BE EVALUATED: ____

NAME OF AGENCY OR FIRM SUBMITTING EVALUATION: _____

NAME/PHONE NUMBER OF PERSON SUBMITTING EVALUATION: ____

NAME OF PROJECT AND DATE SUBSTANTIALLY COMPLETED: _____

Questions to be completed by Agencies:

1. Has the above referenced project reached substantial completion? (select one) ☐ **Yes** ☐ **No**
2. What project delivery method was utilized? (select one) ☐ **DBB** ☐ **CM@R** ☐ **JOC** ☐ **DB**

   What type of services did this firm provide on the project referenced?

   _____

   _____
3. On a scale of 1 to 10 (1 being lowest, 10 highest) rate this company's performance on the following:

   a. Was the project completed on time? (10=Yes, 0=No) ____
   b. Was the project completed within budget? (10=Yes, 0=No) ____
   c. What was the quality of the work performed? ____
   d. Was staff proactive in solving problems that may have occurred on your project? ____
   e. Would you be willing to contract with this firm again? (10=Yes, 0 = No) ____

   TOTAL POINTS____
4. Any additional comments.

   _____

   _____

Please email to Engineering-RFQ@mesaaz.gov by the date and time shown above.

SUNRISE ENGINEERING

Phoenix Metro Office
2045 South Vineyard, Suite 101, Mesa, Arizona 85210
TEL 480.768.8600

July 7, 2021

Paul Lopez
Deputy City Engineer
City of Buckeye Engineering Department
530 East Monroe Avenue
Buckeye, AZ 85326

Subject: **Professional Services Agreement for Agency Plan Review Support**

Dear Mr. Lopez,

Sunrise Engineering, Inc. (SEI) is pleased to provide the following proposal to the City of Buckeye to provide Civil Engineering Services for the above referenced project. Hereafter, "Client" refers to the City of Buckeye. SEI agrees, upon receipt of your acceptance to this agreement, to perform the following identified services in accordance with the terms and conditions contained herein.

Scope of Services

The City of Buckeye needs civil plan review assistance. SEI will provide general civil plan review services as requested by the City, which are necessary and associated with the requests of the City, within generally accepted industry standards. These services may include:

1. Civil plan reviews generally consisting of development applications, final engineering plans, preliminary and final plats, right-of-way legal descriptions, easement legal descriptions, reports, specifications and other project related documents. Civil plan reviews will begin five feet outside of buildings. Building plans and planning applications are excluded.
2. Providing comments in an itemized list format and/or directly on plans in the City's preferred format.
3. SEI will provide a civil engineering plan reviewer with relevant experience to assist City staff with civil plan review. The plan reviewer will work in City of Buckeye offices, or at a designated remote location, for an anticipated 40 hours per week. At a billing rate of $135 per hour, and 1,100 hours anticipated, this task will expend no more than $150,000 during the 2021/2022 fiscal year. Work under this contract is expected to be from approximately October 1, 2021 until June 30, 2022. Continuation of this service will be by separate agreement.
4. If requested by the City, SEI staff can work from a Sunrise office or another remote location if necessary. The City may provide a computer workstation for remote access when applicable.
5. Correspond or meet with development services applicants related to plan review on behalf of the City of Buckeye.
6. Act in consulting and/or advisory roles to the City on subjects which fall within SEI's area of competence and as request by the City.
7. Provide other miscellaneous services as requested by the City while onsite.

Fees

SEI agrees to perform the above listed services on a time and materials not to exceed basis. Any work outside the scope of work will be performed on a time and materials basis at the standard plan review rate listed herein or through a contract amendment.

The **Total Not to Exceed budget** for this engagement will be **$150,000**.

Scope of Work Conditions

A. The City will provide a computer workstation and a designated office or cubicle workspace.
B. The City's typical work week is Monday through Thursday, 7:00 am to 6:00 pm.
C. The Onsite Civil Plan Reviewer reserves the right to conduct non-City business at the City outside of scheduled hours. This will be non-billable time to the City, and will not utilize City property or equipment for non-City activity.
D. SEI reserves the right to change or switch reviewer provided at any time and for any reason.

If you are interested in having us complete the services outlined in this proposal, please execute the agreement below and return one copy to our office. Client will be billed monthly based on the amount of work completed for this task. SEI will invoice the Client at the beginning of each month for services performed during the previous month. Payment is due 30 days from the date of the invoice.

If you have any questions regarding this proposal, please contact me at (480) 768-8600. We look forward to working with you on this project.

Sincerely,

Sunrise Engineering, Inc.

Geoffrey S. Child, P.E.
Principal/Engineering Manager

Accepted and Agreed:
City of Buckeye Engineering Department

By: _____
Signature

_____
Printed Name

Title: _____
Print Title

Date: _____

mesa·az

DATE: July 26, 2021

CHANGE ORDER # 2

Project: General Engineering Services
Project Number: Master Agreement 21000035

Contract Date: August 17, 2020
Notice to Proceed Date: August 17, 2020
Length of Contract: 365 Calendar Days

Consultant: Sunrise Engineering
2045 E. Vineyard Suite 101
Mesa, AZ 85210

Reason for Change Order: See below:

YOU ARE DIRECTED TO MAKE THE FOLLOWING CHANGES IN THIS CONTRACT:

A) Exercise the first final option year per Article 1c. of the original contract. The new period of services (option period 1) will end on August 17, 2022.

TOTAL $0.00

The Original Contract Sum was		$1,000,000.00
Net Change by Previous Change Order		$0.00
The Contract Amount Prior to this Change Order was		$1,000,000.00
The Contract Amount will be adjusted by this Change Order		$0.00
The New Contract Amount including this Change Order will be		$1,000,000.00
The Previous Contract Completion Date was	August 17, 2021	
The Contract Time will be extended by	365 Calendar Days	
The Adjusted Contract Completion date is	August 17, 2022	

On behalf of the undersigned Consultant, I have given careful consideration to this Contract Amendment and hereby agree that all provisions of the Contract remain in full force and effect. The terms and conditions of this Contract Amendment, including the dollar amount and the time as modified above, constitute full accord and satisfaction between the City and the Consultant. When this Contract Amendment is approved, the undersigned Consultant agrees to perform all services necessary for the work specified and will accept as full payment therefore the fees or prices in the Contract.

Accepted: Sunrise Engineering
CONSULTANT

By: Geoffrey S. Child

Print Name and Title: Geoffrey S. Child, P.E.
Principal/Engineering Manager

Date: 07/07/2021

Approved: CITY OF MESA

By: Marc Heirshberg

Marc Heirshberg, Deputy City Manager

Date: 07/29/2021

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.M. Police Training Facility Construction Contract
DATE PREPARED: 08/12/21	**DISTRICT NO.:** All
STAFF LIAISON: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225	
DEPARTMENT: Construction and Contracting	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council) Council to take action on the Contraction Manager at Risk Contract (2021044) between the City of Buckeye, an Arizona municipal corporation, and ForeSite Design and Construction, Inc., an Arizona corporation, for labor, materials, equipment and services required to complete the Police Training Facility; and authorizing the Mayor to execute and deliver said Contract on behalf for the City.

RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

ADDITIONAL RELEVANT GOALS:
GOAL 2: Enhanced Economic Well-Being and Vitality

SUMMARY

PROJECT DESCRIPTION:

As part of the Capital Improvement Program, the Police Department has requested the Construction and Contracting Division construct a new Police Training Facility. This contract between the City of Buckeye and ForeSite Design and Construction, Inc. is for the construction of a 17,500 square foot facility for the Police/SWAT Departments to be utilize for firearm situational training and situational/hand to hand combat training. It will include a large auditorium style classroom, storage for ammunition, a gunsmithing area, and a new gun safe room with explosion proof walls. The entire contract with exhibits is on file in the Office of the City Clerk.

BENEFITS:

Buckeye's current training center is insufficient and has exceeded its use. This new training center will include an auditorium style classroom large enough to allow other valley agencies to schedule training.

FUTURE ACTION:
None

FINANCIAL IMPACT STATEMENT:
General and Impact Fees

CURRENT FISCAL YEAR TOTAL COST:

$5,858,404.00

FY 2021-22 Budget approved by Council equals $5,964,994

BUDGETED:
Yes

FISCAL YEAR:
2021-2022

FUND/DEPARTMENT:
CIP2021025 - 50212121-543143

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
MAP.pdf
Foresite Design and Construction, Inc. Contract No. 2021044.pdf

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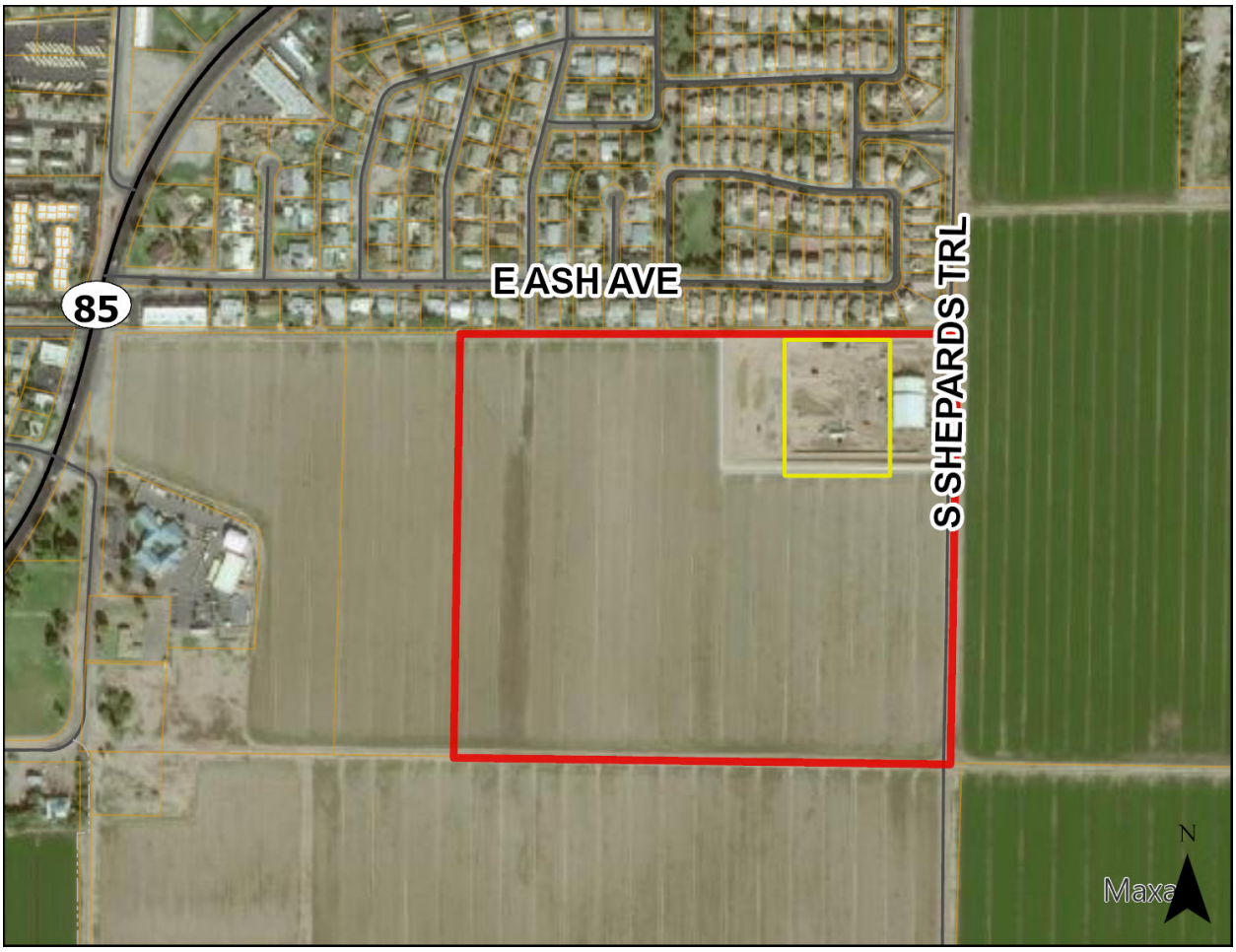
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CONSTRUCTION SERVICES CONTRACT
BETWEEN
CITY OF BUCKEYE
AND
FORESITE DESING AND CONSTRUCTION, INC.

CONTRACT NO. 2021044

THIS AGREEMENT, made and entered by and between City of Buckeye, an Arizona municipal corporation, hereinafter designated the "City" and ForeSite Design and Construction, Inc., an Arizona corporation, hereinafter designated the "Construction Manager at Risk" or "CM@Risk"

RECITALS

A. The City of Buckeye, Arizona, is authorized and empowered by provisions of the City Charter to execute contracts for construction services.

B. The City intends to construct the Police Training Facility more fully described in Exhibit A attached.

C. To undertake the construction administration of said Project the City has entered into a contract with Arrington Watkins Architects, LLC, hereinafter referred to as the "Design Professional."

D. The CM@Risk has represented to the City the ability to provide construction services for the Police Training Facility project and based on this representation the City engages the CM@Risk to provide these services and construct the project.

NOW THEREFORE, for and in consideration of the mutual covenants and considerations hereinafter contained, it is agreed by and between the City and the CM@Risk as follows:

ARTICLE 1
DEFINITIONS

"Agreement ("Contract") means this written document signed by the City and CM@Risk covering the construction phase of the Project, and including other documents itemized and referenced in or attached to and made part of this Contract.

"Change Directive" means a written order prepared and signed by City, directing a change in the Work prior to agreement on an adjustment in the Contract Price and the Contract Time.

"Change Order" means a type of contract amendment issued after execution of this Agreement or future GMP Amendments signed by City and CM@Risk, agreeing to changes to an agreement. The Change Order will state the following: the addition, deletion or revision in the scope of Work; the amount of the adjustment to the Contract Price; and the extent of the adjustment to the Contract Times or other modifications to Contract terms.

"City ("Owner") means the City of Buckeye, a municipal corporation, with whom CM@Risk has entered into this Contract and for whom the services are to be provided pursuant to said Contact.

"City's Representative" means the person designated in Article 8.

"City's Senior Representative" means the person designated in Article 8.

"CM@Risk" means the firm selected by the City to provide construction services as detailed in this Agreement.

"CM@Risk's Contingency" means a fund to cover cost growth during the project used at the discretion of the CM@Risk usually for costs that result from project circumstances. The amount of the CM@Risk's Contingency will be negotiated as a separate line item in each GMP package. Use and management of the CM@Risk's Contingency is described in Article 5.

"CM@Risk's Representative" means the person designated in Article 8.

"CM@Risk's Senior Representative" means the person designated in Article 8.

"Contract Documents" means the following items and documents in descending order of precedence executed by the City and the CM@Risk: (i) all written modifications, amendments and Change Orders; (ii) this Agreement, including all exhibits and attachments; (iii) Construction Documents; (iv) GMP Plans and Specifications.

"Contract Price" means the amount or amounts set forth in Article 5.

"Construction Documents"-The plans, specifications, and drawings prepared by the Design Professional and issued as approved for construction meaning the documents are sealed by the Design Professional, signed and acceptable for permitting.

"Construction Fee" means the lump sum amount for CM@Risk's administrative costs for branch or home office overhead, and profit.

"Contract Time" means the Days as set forth in Article 4 the period of time, including authorized adjustments, allotted in the Contract Documents for Substantial Completion of the Work.

"Cost of the Work" means the direct costs necessarily incurred by the CM@Risk in the proper performance of the Work. The Cost of the Work shall include direct labor costs, subcontract costs, costs of materials and equipment incorporated in the completed construction, costs of other materials and equipment, temporary facilities, permit and license fees, materials testing, and related items. The Cost of the Work shall not include the CM@Risk's Construction Fee, General Conditions Costs, and taxes.

"Critical Path" means the sequence of activities from the start of the Work to the Substantial Completion of the Project. Any delay in the completion of these activities will extend the Substantial Completion date.

"Day(s)" mean calendar days unless otherwise specifically noted in the Contract Documents.

"Design Phase Contract" means the agreement between the City and the CM@Risk for Services provided by the CM@Risk during the design phase, which may include the following: design recommendations, project scheduling, constructability reviews, alternate systems evaluation, cost estimates, subcontractor bid phase services and GMP preparation.

"Design Professional" means a qualified, licensed design professional who furnishes design and/or construction administration services required for the Project.

"Differing Site Conditions" means concealed or latent physical conditions or subsurface conditions at the Site that, (i) materially differ from the conditions indicated in the Contract Documents or (ii) are of an unusual nature, differing materially from the conditions ordinarily encountered and generally recognized as inherent in the Work.

"Final Acceptance" means the completion of the Work as prescribed in Article 4.

"Float" means the number of Days by which an activity can be delayed without lengthening the Critical Path and extend the Substantial Completion date.

"General Conditions Costs" includes, but is not limited to the following types of costs for the CM@Risk during the construction phase: (i) payroll costs for project manager or CM@Risk for work conducted at the site, (ii) payroll costs for the superintendent and full-time general foremen, (iii) payroll costs for other management personnel resident and working at the site, (iv) workers not included as direct labor costs engaged in support (e.g. loading/unloading, clean-up, etc.), (v) costs of offices and temporary facilities including office materials, office supplies, office equipment and minor expenses, (vi) cost of utilities, fuel, sanitary facilities, telephone and data services at the site, (vii) costs of liability insurance premiums not included in labor burdens for direct labor costs, (viii) costs of bond premiums, (ix) costs of consultants not in the direct employ of the CM@Risk or Subcontractors.

"Guaranteed Maximum Price" or "GMP" means the sum of the maximum Cost of the Work; the Construction Fee; General Conditions Costs, taxes, and CM@Risk's Contingency including authorized adjustments.

"GMP Plans and Specifications" means the plans and specifications upon which the Guaranteed Maximum Price proposal is based as listed in the GMP proposal.

"Legal Requirements" means all applicable federal, state and local laws, codes, ordinances, rules, regulations, orders and decrees of any government or quasi-government entity having jurisdiction over the Project or Site, the practices involved in the Project or Site, or any Work.

"Notice to Proceed" or "NTP" means the directive issued by the City, authorizing the CM@Risk to start Work. Such notice shall be provided to the CM@Risk at least seven days prior to the commencement date stipulated herein and shall be provided no later than 30 days after the GMP proposal and all the required documentation is received by the City.

"Owner's Contingency" means a fund to cover cost growth during the Project used at the discretion of the Owner usually for costs that result from Owner directed changes or unforeseen site conditions. The amount of the Owner's contingency will be set solely by the Owner and will be in addition to the Project costs included in the CM@Risk's GMP packages. Use and management of the Owner's Contingency is described in Article 5.

"Performance Period" means the period of time allotted in the Contract Documents to substantially complete the Work comprised within a GMP. The Performance Period shall be stated with each GMP proposal and shown on the Project Schedule.

"Payment Request" means the City form used by the CM@Risk to request progress payments for Work in accordance with Article 7.

"Product Data" means illustrations, standard schedules, performance charts, instructions, brochures, diagrams and other information furnished by the CM@Risk to illustrate materials or equipment for some portion of the Work.

"Project" means the Work to be completed in the execution of this Agreement as amended and as described in the Recitals above.

"Project Record Documents" means the documents created pursuant to Article 2.

"Samples" means physical examples which illustrate materials, equipment or workmanship and establish standards by which the Work will be evaluated.

"Shop Drawings" mean drawings, diagrams, schedules and other data specially prepared for the Work by the CM@Risk or a Subcontractor, Sub-subcontractor, manufacturer, supplier or distributor to illustrate some portion of the Work.
"Site" means the land or premises on which the Project is located.

"Specifications" means the part(s) of the Contract Documents for the construction phase consisting of written technical descriptions of materials, equipment, construction systems, standards and workmanship as applied to the Work and certain administrative details applicable thereto as listed in the GMP proposal.

"Subcontractor" means an individual or firm having a direct contract with the CM@Risk or any other individual or firm having a contract with the aforesaid individual or firm at any tier, who undertakes to perform a part of the construction phase Work for which the CM@Risk is responsible.

"Substantial Completion" means when the Work, or an agreed upon portion of the Work, is sufficiently complete so that City can occupy and use the Project or a portion thereof for its intended purposes. This may include, but is not limited to: (i) approval by City Fire Marshall and local authorities (Certificate of Occupancy); (ii) Elevator Permit; (iii) all systems in place, functional, and displayed to the City or its representative; (iv) all materials and equipment installed; (v) all systems reviewed and accepted by the City. The conditions of Substantial Completion that do not apply to a specific GMP will be listed in the Notice to Proceed Letter pursuant to Article 2.

"Supplier" means a manufacturer, fabricator, supplier, distributor, material man or vendor having a direct contract with CM@Risk or any Subcontractor to furnish materials or equipment to be incorporated in the construction phase Work by CM@Risk or any Subcontractor.

"Work" means the entire completed construction or the various separately identifiable parts thereof, required by the agreement to be furnished during the construction phase. Work includes and is the result of performing or furnishing labor and furnishing and incorporating materials, resources and equipment into the construction, and performing or furnishing services and documents as required by the Contract Documents for the construction phase.

ARTICLE 2
CM@RISK'S SERVICES AND RESPONSIBILITIES

1. General Services and Responsibilities

(A) The CM@Risk shall furnish any and all labor, materials, equipment, transportation, utilities, services and facilities required to perform all Work required by the contract document, and to completely and totally construct the same and install the material therein for the City. All Work will be performed in a good and workmanlike and substantial manner and within the care and skill of a qualified CM@Risk in Buckeye, Arizona. The Work shall be to the satisfaction of the City and strictly pursuant to and in conformity with the Project's Contract Documents as modified. It is not required that the services be performed in the sequence in which they are described.

(B) General Services: CM@Risk's Representative shall be reasonably available to City and shall have the necessary expertise and experience required to supervise the Work. CM@Risk's Representative shall communicate regularly with City but not less than once a week and shall be vested with the authority to act on behalf of CM@Risk. CM@Risk's Representative may be replaced only with the written consent of City.

(C) Government Approvals and Permits: Unless otherwise provided, CM@Risk shall obtain or assist the City to obtain all necessary permits, approvals and licenses required for the prosecution of the Work from any government or quasi-government entity having jurisdiction over the Project. **The CM@Risk is specifically reminded of the need to obtain the necessary environmental permits or file the necessary environmental notices.**

(D) Copies of these permits and notices must be provided to the City's Representative prior to starting the permitted activity. This provision does not constitute an assumption by the City of an obligation of any kind for violation of said permit or notice requirements.

(E) CM@Risk shall be responsible for obtaining, and the City shall pay for, all City of Buckeye review and permit(s) fees for building and demolition permits. City will also pay review and permit fees for grading and drainage, water, sewer right-of-way and landscaping. City shall also pay for utility design fees for permanent services.

(F) CM@Risk shall be responsible for all other permits and review fees not specifically listed above. CM@Risk is responsible for the cost of water meter(s), water and sewer taps, fire lines and taps, and all water bills on the project meters until Substantial Completion of the Project. Arrangements for construction water are the CM@Risk's responsibility.

2. Pre-construction Conference

(A) Prior to the commencement of any Work, the City's Representative will schedule a Pre-construction conference.

(B) The purpose of this conference is to establish a working relationship between the CM@Risk, utility firms, and various City agencies. The agenda will include critical elements of the work schedule, submittal schedule, cost breakdown of major lump sum items, Payment Requests and processing, coordination with the involved utility firms, the level of Record Project Documents required and emergency telephone

numbers for all representatives involved in the course of construction.

(C) The Notice to Proceed date will be concurred to. After the meeting a Notice to Proceed letter will be issued confirming the construction start date, Performance Period and if applicable, the Substantial Completion date.

(D) The CM@Risk shall provide a schedule of values based on the categories used in the buyout of the Work but not greater than the approved GMP and identifying the CM@Risk's Contingency. The schedule of values will subdivide the Work into all items comprising the Work.

(E) Minimum attendance by the CM@Risk shall be the CM@Risk's Representative, who is authorized to execute and sign all construction related documents on behalf of the firm, the job superintendent, and the CM@Risk's safety officer.

3. Control of the Work

(A) Unless otherwise provided in the Contract Documents to be the responsibility of City or a separate contractor, CM@Risk shall provide through itself or Subcontractors the necessary supervision, labor, inspection, testing, start-up, material, equipment, machinery, temporary utilities and other temporary facilities to permit CM@Risk to complete the Work consistent with the Contract Documents.

(B) CM@Risk shall perform all construction activities efficiently and with the requisite expertise, skill and competence to satisfy the requirements of the Contract Documents. CM@Risk shall at all times exercise complete and exclusive control over the means, methods, sequences and techniques of construction.

(C) CM@Risk, the CM@Risk's superintendent or other authorized representative shall be present at the Site at all times that construction activities are taking place.

(D) All elements of the Work shall be under the direct supervision of a foreman or his designated representative on the Site who shall have the authority to take actions required to properly carry out that particular element of the Work.

(E) In the event of noncompliance with this Section, the City may require the CM@Risk to stop or suspend the Work in whole or in part.

(F) Where the Contract Documents require that a particular product be installed and/or applied by an applicator approved by the manufacturer, it is the CM@Risk's responsibility to ensure the Subcontractor employed for such Work is approved by the manufacturer.

(G) Before ordering materials or doing work, the CM@Risk and each Subcontractor shall verify measurements at the Site and shall be responsible for the correctness of such measurements. No increase to the approved GMP will be allowed because of differences between actual dimensions and the dimensions indicated in the Contract Documents; differences, which may be found, shall be submitted to the City for resolution before proceeding with the Work.

(H) The CM@Risk shall take field measurements and verify field conditions and shall carefully compare such field measurements and conditions and other information known to the CM@Risk with the

Contract Documents before commencing activities. Errors, inconsistencies or omissions discovered shall be reported to the City at once.

(I) The CM@Risk shall establish and maintain all primary building and construction grades, lines, levels, and bench marks, and shall be responsible for accuracy and protection of same. This Work shall be performed or supervised by a licensed civil engineer or surveyor in the State of Arizona.

(J) Any person employed by the CM@Risk or any Subcontractor who, in the opinion of the City, does not perform his work in a proper, skillful and safe manner or is intemperate or disorderly shall, at the written request of the City, be removed from the Work by CM@Risk or Subcontractor employing such person, and shall not be employed again in any portion of Work without the written approval of the City. The CM@Risk or Subcontractor shall keep the City harmless from damages or claims which may occur in the enforcement of this Section.

(K) CM@Risk assumes responsibility to City for the proper performance of the work of Subcontractors and any acts and omissions in connection with such performance. Nothing in the Contract Documents is intended or deemed to create any legal or contractual relationship between City and any Subcontractor or Sub-Subcontractor, including but not limited to any third-party beneficiary rights.

(L) CM@Risk shall coordinate the activities of all Subcontractors. If City performs other work on the Project or at the Site with separate contractors under City's control, CM@Risk agrees to reasonably cooperate and coordinate its activities with those of such separate contractors so that the Project can be completed in an orderly and coordinated manner without unreasonable disruption.

4. Control of the Work Site

(A) Throughout all phases of construction, including suspension of Work, CM@Risk shall keep the Site reasonably free from debris, trash and construction wastes to permit CM@Risk to perform its construction services efficiently, safely and without interfering with the use of adjacent land areas. Upon Substantial Completion of the Work, or a portion of the Work, CM@Risk shall remove all debris, trash, construction wastes, materials, equipment, machinery and tools arising from the Work or applicable portions thereof to permit City to occupy the Project or a portion of the Project for its intended use.

(B) CM@Risk shall take all reasonable steps, procedures or means to prevent any dust nuisance due to construction operations. The dust control measures shall be maintained at all times to the satisfaction of the City and in accordance with the requirements of the Maricopa County Bureau of Air Pollution Control Rules and Regulations.

(C) CM@Risk shall maintain ADA and ANSI accessibility requirements during construction activities in an occupied building or facility. ADA and ANSI accessibility requirements shall include, but not be limited to, parking, building access, entrances, exits, restrooms, areas of refuge, and emergency exit paths of travel. CM@Risk shall be responsible for the coordination of all work to minimize disruption to building occupants and facilities.

(D) Only materials and equipment which are to be used directly in the Work shall be brought to and stored on the Site by the CM@Risk. When equipment is no longer required for the Work, it shall be removed promptly from the Site. Protection of construction materials and equipment stored at the Site from weather, theft, damage and all other adversity is solely the responsibility of the CM@Risk.

5. Shop Drawings, Product Data and Samples

(A) Shop Drawings, Product Data, Samples and similar submittals are not Contract Documents. The purpose of their submittal is to demonstrate for those portions of the Work for which submittals are required the way the CM@Risk proposes to conform to the information given and the design concept expressed in the Contract Documents.

(B) The CM@Risk shall review, approve, verify, and submit to the City five copies of each Shop Drawing, Product Data, Sample, and similar submittal required by the Contract Documents in accordance with the approved GMP schedule as to cause no delay in the Work or in the activities of the City or of separate contractors. Submittals made by the CM@Risk, which are not required by the Contract Documents, may be returned without action.

(C) The CM@Risk shall perform no portion of the Work requiring submittal and review of Shop Drawings, Product Data, Samples, or similar submittals until the respective submittal has been approved by the City. Such Work shall be in accordance with approved submittals.

(D) By approving, verifying and submitting Shop Drawings, Product Data, Samples and similar submittals, the CM@Risk represents that the CM@Risk has determined and verified materials, field measurements and field construction criteria related thereto, or will do so, and has checked and coordinated the information contained within such submittals with the requirements of the Work and of the Contract Documents.

(E) The CM@Risk shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the City's approval of Shop Drawings, Product Data, Samples or similar submittals unless the CM@Risk has specifically informed the City in writing of such deviation at the time of submittal and the City has given written approval to the specific deviation. The CM@Risk shall not be relieved of responsibility for errors or omissions in Shop Drawings, Product Data, Samples, or similar submittals by the City’s approval thereof.

(F) The CM@Risk shall direct specific attention, in writing or on resubmitted Shop Drawings, Product Data, Samples, or similar submittals, to revisions other than those requested by the City on previous submittals.

(G) Informational submittals upon which the City is not expected to take responsive action may be so identified in the Contract Documents.

(H) When professional certification of performance criteria of materials, systems or equipment is required by the Contract Documents, the City shall be entitled to rely upon the accuracy and completeness of such calculations and certifications.

6. Quality Control, Testing and Inspection.

(A) All materials used in the Work shall be new and unused, unless otherwise noted, and shall meet all quality requirements of the Contract Documents.

(B) All construction materials to be used on the Work or incorporated into the Work, equipment, plant, tools, appliances or methods to be used in the Work may be subject to the inspection and approval

or rejection by the City. Any material rejected by the City shall be removed immediately and replaced in an acceptable manner.

(C) The procedures and methods used to sample and test material will be determined by the City.

(D) The City will select a pre-qualified City or Independent Testing Laboratory and will pay for initial City Acceptance Testing.

(E) When the first and subsequent tests indicate noncompliance with the Contract Documents, the cost associated with that noncompliance will be paid for by the CM@Risk. CM@Risk's Contingency cannot be utilized for the cost of re-testing.

(F) When the first and subsequent tests indicate noncompliance with the Contract Documents, all retesting shall be performed by the same testing agency.

(G) The CM@Risk will cooperate with the selected testing laboratory and all others responsible for testing and inspecting the work and shall provide them access to the Work at all times.

(H) At the option of the City, materials may be approved at the source of supply before delivery is started.

(I) Code compliance testing and inspections required by codes or ordinances, or by a plan approval authority, and which are made by a legally constituted authority, shall be the responsibility of and shall be paid by the CM@Risk as a Cost of the Work, unless otherwise provided in the Contract Documents.

(J) CM@Risk's convenience and quality control testing and inspections shall be the sole responsibility of the CM@Risk and paid by the CM@Risk.

7. Trade Names and Substitutions.

(A) Contract Document references to equipment, materials or patented processes by manufacturer, trade name, make or catalog number, unless indicated that no substitutions are permitted, substitute or alternate items may be permitted, subject to the following:

(B) The substitution shall be submitted by CM@Risk in writing to the City.

(C) The CM@Risk shall certify that the substitution will perform the functions and achieve the results called for by the general design, be similar and of equal substance, and be suited to the same use as that specified.

(D) The submittal shall state any required changes in the Contract Documents to adapt the design to the proposed substitution.

(E) The submittal shall contain an itemized estimate of all costs and credits that will result directly and indirectly from the acceptance of such substitution, including cost of design, license fees, royalties, and testing. Also, the submittal shall include any adjustment in the Contract Time created by the substitution.

(F) The CM@Risk if requested by the City shall submit Samples or any additional information that

may be necessary to evaluate the acceptability of the substitution.

(G) The City will make the final decision and will notify the CM@Risk in writing as to whether the substitution has been accepted or rejected.

(H) If the City does not respond in a timely manner, the CM@Risk shall continue to perform the Work in accordance with the Contract Documents and the substitution will be considered rejected.

8. Project Record Documents.

(A) During the construction period, the CM@Risk shall maintain at the jobsite a set of blueline or blackline prints of the Construction Document drawings and shop drawings for Project Record Document purposes.

(B) The CM@Risk shall mark these drawings to indicate the actual installation where the installation varies appreciably from the original Construction Documents. Give particular attention to information on concealed elements, which would be difficult to identify or measure and record later. Items required to be marked include but are not limited to:

- Dimensional changes to the drawings.
- Revisions to details shown on drawings
- Depths of foundations below first floor
- Locations and depths of underground utilities
- Revisions to routing of piping and conduits.
- Revisions to electrical circuitry.
- Actual equipment locations.
- Duct size and routing.
- Locations of concealed internal utilities.
- Changes made by Change Order.
- Details not on original Contract Drawings.

(C) Mark completely and accurately Project Record Drawing prints of Construction Documents or Shop Drawings, whichever is the most capable of indicating the actual physical condition. Where Shop Drawings are marked, show cross-reference on the Construction Documents location.

(D) Mark Project Record Drawings sets with red erasable colored pencil. Note RFI Numbers, ASI Numbers and Change Order numbers, etc., as required to identify the source of the change to the Construction Documents. The CM@Risk shall as a condition of Substantial Completion, submit Project Record Drawing and Shop Drawings prints to the City or its representative for review and comment.

(E) Upon receipt of the reviewed Project Record Drawings from the City, the CM@Risk shall correct any deficiencies and/or omissions to the drawings and prepare the following for submission to the City within 14 Days: A complete set of electronic Project Record Drawings prepared in AutoCAD format compatible with City of Buckeye Engineering and Architectural Services Department CADD technology. The Design Professional will provide files of the original Construction Documents to the CM@Risk for the use of preparing these final Project Record Drawings or the CM@Risk may contract with the Design Professional to revise and update the electronic drawing files. Each drawing shall be clearly marked with

"As-Built Document.

(F) The original copy of the Project Record Drawings (redline mark-ups).

9. Project Safety

(A) CM@Risk recognizes the importance of performing the Work in a safe manner so as to prevent damage, injury or loss to (i) all individuals at the Site, whether working or visiting, (ii) the Work, including materials and equipment incorporated into the Work or stored on-Site or off-Site, and (iii) all other property at the Site or adjacent thereto.

(B) CM@Risk assumes responsibility for implementing and monitoring all safety precautions and programs related to the performance of the Work.

(C) CM@Risk shall, prior to commencing construction, designate a Safety Representative with the necessary qualifications and experience to supervise the implementation and monitoring of all safety precautions and programs related to the Work. Unless otherwise required by the Contract Documents, CM@Risk's Safety Representative shall be an individual stationed at the Site who may have other responsibilities on the Project in addition to safety.

(D) The Safety Representative shall make routine daily inspections of the Site and shall hold weekly safety meetings with CM@Risk's personnel, Subcontractors and others as applicable.

(E) CM@Risk and Subcontractors shall comply with all Legal Requirements relating to safety, as well as any City-specific safety requirements set forth in the Contract Documents, provided that such City-specific requirements do not violate any applicable Legal Requirement.

(F) CM@Risk will immediately report in writing any safety-related injury, loss, damage or accident arising from the Work to City's Representative and, to the extent mandated by Legal Requirements, to all government or quasi-government authorities having jurisdiction over safety-related matters involving the Project or the Work.

(G) CM@Risk's responsibility for safety under this Section is not intended in any way to relieve Subcontractors and Sub-Subcontractors of their own contractual and legal obligations and responsibility for (i) complying with all Legal Requirements, including those related to health and safety matters, and (ii) taking all necessary measures to implement and monitor all safety precautions and programs to guard against injury, losses, damages or accidents resulting from their performance of the Work.

10. Warranty

(A) CM@Risk warrants to City that the construction, including all materials and equipment furnished as part of the construction, shall be new unless otherwise specified in the Contract Documents, of good quality, in conformance with the Contract Documents and free of defects in materials and workmanship.

(B) CM@Risk's warranty obligation excludes defects caused by abuse, alterations, or failure to maintain the Work by persons other than CM@Risk or anyone for whose acts CM@Risk may be liable.

(C) CM@Risk's warranty obligation shall be for one year.

(D) Nothing in this warranty is intended to limit any manufacturer's warranty which provides City with greater warranty rights than set forth in this Section or the Contract Documents. CM@Risk will provide City with all manufacturers' warranties upon Substantial Completion.

11. Correction of Defective Work

(A) CM@Risk agrees to correct any Work that is found to not be in conformance with the Contract Documents, including that part of the Work subject to Warranty section above, within a period of one year from the date of Substantial Completion of the Work or any portion of the Work, or within such longer period to the extent required by the Contract Documents. A progress payment, or partial or entire use or occupancy of the Project by the City, shall not constitute acceptance of Work not in accordance with the Contract Documents.

(B) During the Work, CM@Risk shall take meaningful steps to commence correction of such nonconforming Work as notified by the City. This includes the correction, removal or replacement of the nonconforming Work and any damage caused to other parts of the Work affected by the nonconforming Work. If CM@Risk fails to commence the necessary steps during the Work, City, in addition to any other remedies provided under the Contract Documents, may provide CM@Risk with written notice that City will commence correction of such nonconforming Work with its own forces.

(C) CM@Risk shall, take meaningful steps to commence correction of nonconforming Work within seven Days of receipt of written notice from City. This includes the correction, removal or replacement of the nonconforming Work and any damage caused to other parts of the Work affected by the nonconforming Work. If CM@Risk fails to commence the necessary steps within such seven Day period, City, in addition to any other remedies provided under the Contract Documents, may provide CM@Risk with written notice that City will commence correction of such nonconforming Work with its own forces.

(D) If City does perform such corrective Work, CM@Risk shall be responsible for all reasonable costs incurred by City in performing such correction.

(E) If the nonconforming Work creates an emergency requiring an immediate response, the CM@Risk will respond and initiate corrections within twenty-four hours.

(F) The one year period referenced in Warranty section above applies only to CM@Risk's obligation to correct nonconforming Work and is not intended to constitute a period of limitations for any other rights or remedies City may have regarding CM@Risk's other obligations under the Contract Documents.

ARTICLE 3
CITY'S SERVICES AND RESPONSIBILITIES

(A) Duty to Cooperate. City shall, throughout the performance of the Work, cooperate with CM@Risk and perform its responsibilities, obligations and services in a timely manner to facilitate CM@Risk's timely and efficient performance of the Work and so as not to delay or interfere with CM@Risk's performance of its obligations under the Contract Documents.

(B) City shall furnish at the CM@Risk's request, at no cost to the CM@Risk, a CADD file of the Construction Documents in AutoCAD format compatible with the City of Buckeye CADD technology.

(D) City's Representative shall be responsible for providing City-supplied information and approvals in a timely manner to permit CM@Risk to fulfill its obligations under the Contract Documents. City's Representative shall also provide CM@Risk with prompt notice if it observes any failure on the part of CM@Risk to fulfill its contractual obligations, including any default or defect in the Project or non-conformance with the Contract Documents.

(E) The City may utilize field inspectors to assist the City's Representative during construction in observing performance of the CM@Risk. The inspector is for the purpose of assisting the City's Representative and should not be confused with an inspector with a City regulatory agency or with an inspector from a laboratory identified by City.

(F) Through onsite observation of the Work in progress and field checks of materials and equipment, the inspector shall endeavor to provide protection against defects and deficiencies in the Work.

(G) The inspector will be authorized to inspect all Work and materials furnished. Such inspection may extend to all or part of the Work and to the preparation, fabrication or manufacture of the materials to be used.

(H) The inspector will not be authorized to issue instructions contrary to the Construction Documents or to act as a foreman for the CM@Risk.

(I) The inspector shall have the authority to reject work or materials until any questions at issue can be decided by the City's Representative.

(J) The furnishing of such services for the City shall not make the City responsible for or give the City control over construction means, methods, techniques, sequenced or procedures or for safety precautions or programs or responsibility for the CM@Risk's failure to perform the work in accordance with Contract Documents.

(K) Design Professional Services. The City may contract separately with one or more Design Professionals to provide construction administration of the project. The Design Professional's contract as well as other firms hired by the City shall be furnished to the CM@Risk. The CM@Risk shall not have any right however, to limit or restrict any contract modifications that are mutually acceptable to the City and Design Professional.

(L) The City may contract with the Design Professional to provide some or all of the following services during the performance of the Work.

1. Provide oversight of the Work. The City and CM@Risk shall endeavor to communicate through the Design Professional. Communications by and with the Design Professional's consultants shall be through the Design Professional.

2. Site visits at intervals appropriate to the stage of construction to become generally familiar with the progress and quality of the completed Work and work in progress and to determine in general if the Work is being performed in accordance with the Contract Documents. The Design Professional will keep the City informed of progress of the Work, and will endeavor to guard the City against defects and deficiencies in the Work. The Design Professional may have authority to reject construction which does not conform to the Construction Documents and to require additional inspection or testing of the construction in accordance with Article 2.

3. Review and recommend approval of Payment Requests.

4. Review and approve or take other appropriate action upon the CM@Risk's submittals such as Shop Drawings, Product Data and Samples in accordance with Article 2.

5. Interpret and decide matters concerning performance under and requirements of the Contract Documents on written request of either the City or CM@Risk. The design Professional's response to such requests will be made with reasonable promptness and within any time limits agreed upon.

6. Prepare Change Orders, and may authorize minor changes in the Work as provided in Article 6.

7. Conduct inspections to determine Substantial Completion and Final Acceptance.

8. Receive and forward to the City for the City's review and records written warranties and related documents required by the Contract Documents and assembled by the CM@Risk.

(M) **City's Separate Contractors. City is responsible for all work performed on the Project or at the Site by separate contractors under City's control. City shall contractually require its separate contractors to cooperate with, and coordinate their activities so as not to interfere with, CM@Risk in order to enable CM@Risk to timely complete the Work consistent with the Contract Documents.**

(N) Permit Review and Inspections. If requested by the CM@Risk, the City's Representative will provide assistance and guidance in obtaining necessary reviews, permits and inspections.

ARTICLE 4
CONTRACT TIME

(A) Contract Time. Contract Time shall start with the commencement date established in the Notice to Proceed or the dates of permit(s), whichever is later, for GMP No. 1 and end with Substantial Completion.

(B) Each GMP will establish a separate commencement date and a date of Substation Completion and a Performance Period. The Performance Periods may not be sequential and may run concurrently. The Period to achieve Substantial Completion for pre-construction services shall be **Three Hundred and Seventy-Five** (**375) Calendar Days** starting with the commencement date.

(C) CM@Risk agrees that it will commence performance of the Work and achieve the Performance Periods and Contract Time.

(D) All of the times set forth in this Article 4 shall be subject to adjustment in accordance with Article 6 of this contract.

(E) Substantial Completion

1. Substantial Completion shall be for the entire Project unless a partial Substantial Completion is identified in the approved GMP schedule and stated in the Notice to Proceed letter. Substantial Completion shall be in accordance with its definition in Article 1. and with the criteria set forth in the Notice to Proceed.

2. Prior to notifying the City, the CM@Risk shall inspect the Work and prepare and submit to the City a comprehensive list of items to be completed or corrected. The CM@Risk shall proceed promptly to complete and correct items on the list. Failure to include an item on such list does not alter the responsibility of the CM@Risk to complete all Work in accordance with the Contract Documents.

3. CM@Risk shall notify City when it believes the Work, or to the extent permitted in the Contract Documents, a portion of the Work, is substantially complete.

4. Within five (5) days of City's receipt of CM@Risk's notice, City and CM@Risk will jointly inspect such Work to verify that it is substantially complete in accordance with the requirements of the Contract Documents.

5. If such Work is substantially complete, City shall prepare and issue a Certificate of Substantial Completion that will set forth (i) the date of Substantial Completion of the Work or portion thereof, (ii) the remaining items of Work that have to be completed within thirty (30) calendar days before Final Acceptance, (iii) provisions provided in the Contract Documents establishing City's responsibility for the Project's security, maintenance, utilities and insurance pending Final Acceptance and (iv) an acknowledgment that warranties commence to run on the date of Substantial Completion, except as may otherwise be noted in the Certificate of Substantial Completion.

6. City, at its option, may use a portion of the Work which has been determined to be substantially complete, provided, however, that (i) a Certificate of Substantial Completion has been issued for the portion of Work addressing the items set forth above, (ii) CM@Risk and City have obtained the consent of their sureties and insurers, and to the extent applicable, the appropriate government authorities having jurisdiction over the Project, and (iii) City and CM@Risk agree that City's use or occupancy will not interfere with CM@Risk's completion of the remaining Work.

(F) Final Acceptance. Upon receipt of written notice that the Work or identified portions of the Work is ready for final inspection and acceptance, City and CM@Risk will jointly inspect to verify that the remaining items of Work have been completed as set forth above. The City will issue a Final Acceptance Letter and payment pursuant to Article 7.

(G) Liquidated Damages. CM@Risk understands that if Substantial Completion is not attained within the Contract Time as adjusted, City will suffer damages which are difficult to determine and accurately specify. CM@Risk agrees that if Substantial Completion is not attained within the Contract Time as adjusted, CM@Risk shall pay the City **One Thousand Four Hundred Twenty Dollars and Zero Cents ($1,420.00)** as liquidated damages for each Day that Substantial Completion extends beyond the date determined by the Contract Time as adjusted.

(H) Project Schedule. The Project Schedule approved as part of a GMP shall be updated and maintained throughout the Work.

1. The Project Schedule shall be revised as required by conditions and progress of the Work, but such revisions shall not relieve CM@Risk of its obligations to complete the Work within the Contract Time, as such dates may be adjusted in accordance with the Contract Documents.

2. Updated Project Schedules shall be submitted monthly to the City as part of the Payment Request.

3. CM@Risk shall provide City with a monthly status report with each Project Schedule detailing the progress of the Work, including: (i) if the Work is proceeding according to Project Schedule, (ii) any discrepancies, conflicts, or ambiguities found to exist in the Contract Documents that require resolution, and (iii) other items that require resolution so as not to jeopardize ability to complete the Work as presented in the GMP proposal and within the Contract Time.

4. With each Project Schedule submittal the CM@Risk shall include a transmittal letter including the following:

a. Description of problem tasks (referenced to field instructions, requests for information (RFI's), as appropriate.

b. Current and anticipated delays including; Cause of the delay,
Corrective action and schedule adjustments to correct the delay, Known or potential impact of the delay on other activities, milestones, and the date of Substantial Completion.

c. Changes in construction sequence

d. Pending items and status thereof including but not limited to; Time Extension requests, other items

e. Substantial Completion date status; If ahead of schedule, the number of calendar Days ahead, If behind schedule, the number of calendar Days behind, other project or scheduling concerns

(I) City's review of and response to the Project Schedule is only for general conformance with the scheduling requirements of the Contract Documents. The review shall not relieve the CM@Risk from compliance with the requirements of the Contract Documents or be construed as relieving the CM@Risk of its complete and exclusive control over the means, methods, sequences and techniques for executing the Work.

(J) The Project Schedule shall include a Critical Path Method (CPM) diagram schedule that shall show the sequence of activities, the interdependence of each activity and indicate the Critical Path.

(K) The CPM diagram schedule shall be in Days and indicate duration, earliest and latest start and finish dates for all activities, and total Float times for all activities except critical activities. The CMP diagram shall be presented in a time scaled graphical format for the Project as a whole.

(L) The CPM diagram schedule shall indicate all relationships between activities.

1. The activities making up the schedule shall be sufficient detail to assure that adequate planning has been done for proper execution of the Work and such that it provides an appropriate basis for monitoring and evaluating the progress of the Work.

2. The CPM diagram schedule shall be based upon activities, which would coincide with the schedule of values.

3. The CPM diagram schedule shall show all critical submittals associated with each work activity and the review time for each submittal.

4. The Project Schedule shall show milestones, including milestones for Owner-furnished information, and shall include activities for Owner-furnished equipment and furniture when those activities are interrelated with the CM@Risk activities.

5. The Project Schedule shall include a critical path activity that reflects anticipated rain delay during the performance of the Contract. The duration shall reflect the average climatic range and usual industrial conditions prevailing in the locality of the site. Weather data shall be based on information provided by the National Weather Services or other approved source.

(M) The Project Schedule shall consider the City's and the tenants' occupancy requirements showing portions of the Project having occupancy priority, and Contract Time.

(N) Float time shall be as prescribed below;

1. The total Float within the overall Project Schedule, is not for the exclusive use of either the City or the CM@Risk, but is jointly owned by both and is a resource available to and shared by both parties as needed to meet contract milestones and the Project contract time.

2. The CM@Risk shall not sequester shared Float through such strategies as extending activity duration estimates to consume available Float, using preferential logic, or using extensive crew/resource sequencing, etc. Since Float time within the Project Schedule is jointly owned, no time extensions will be granted nor delay damages paid until a delay occurs which extends the Work beyond the Substantial Completion date.

3. Since Float time within the Project Schedule is jointly owned, it is acknowledged that City-caused delays on the Project may be offset by City-caused time savings (i.e., critical path submittals returned in less time than allowed by the Contract, approval of substitution requests and credit changes which result in savings of time to the CM@Risk, etc.). In such an event, the CM@Risk shall not be entitled to receive a time extension or delay damages until all City-caused time savings are exceeded, and the Substantial Completion date is also exceeded.

ARTICLE 5
CONTRACT PRICE

(A) The CM@Risk agrees at his own proper cost and expense, to do all Work as aforesaid for the construction of said improvements and to completely construct the same and install the material therein, as called for by this Agreement free and clear of all claims, liens, and charges whatsoever, in the manner and under the conditions specified within the time, or times, stated in the approved GMP proposal.

(B) Contract Price. The Contract Price of **Five Million, Eight Hundred Fifty-Eight Thousand Four Hundred Four Dollars and Zero Cents** (**$5,858,404.000)** has been approved as the construction price proposal attached as Exhibit B.

1. Guaranteed Maximum Price is composed of the following not-to-exceed cost reimbursable or lump sum amounts defined below. The CM@Risk is at risk to cover any additional Project costs. Any amounts in excess of the actual Cost of the Work and/or CM@Risk's Contingency shall revert to the City.

2. The Cost of the Work is actual costs and is a not-to-exceed reimbursable amount.

3. The General Conditions Costs and the Construction Fee are firm fixed lump sums, but subject to adjustments as permitted in the contract Documents.

4. When the CM@Risk utilize CM@Risk's Contingency funds, the CM@Risk shall make the appropriate changes to the schedule of values with the next regular progress payment request. The CM@Risk shall deduct the amount of CM@Risk's Contingency funds used from the CM@Risk's Contingency line item and adding the same amount to the line item on the schedule of values where the funds were used. If the CM@Risk's Contingency funds are used for a new line item that was not given with the original schedule of values, that will be so indicated.

5. Taxes are deemed to include all sales, use, consumer and other taxes which are legally enacted when negotiations of the GMP were concluded, whether or not yet effective or merely scheduled to go into effect. Taxes are actual costs and is a not-to-exceed reimbursable amount; (i) Owner's Contingency are funds to be used at the discretion of the Owner to cover any increases in Project costs that result from Owner directed changes or unforeseen site conditions. Owner's Contingency will be added to the GMP amount provided by the CM@Risk, the sum of which will be the total contract price for construction. Markups for Construction Fee and taxes will be applied by the CM@Risk at the time that Owner's Contingency is used. (ii) The GMP is subject to adjustments made in accordance with Article 6 and by GMP amendments to this Agreement.

6. If the GMP requires an adjustment due to changes in the Work or other causes as allowed in the contract Documents, the cost of such changes is determined subject to Article 6. The markups that shall be allowed on such changes shall be no greater than the markups delineated in the approved GMP proposal.

ARTICLE 6
CHANGES TO THE CONTRACT PRICE AND TIME

A. Delays to the Work: If CM@Risk is delayed in the performance of the Work that will cause a change in the date of Substantial Completion due to acts, omissions, conditions, events, or circumstances beyond its control and due to no fault of its own or those for whom CM@Risk is responsible, the Contract Times and/or Contract Price for performance shall be reasonably revised by Change Order.

B. The CM@Risk shall request an increase in the Contract Time by written notice including an estimate of probable effect of delay on progress of the Work. In the case of a continuing delay only one request is necessary. Such notice shall not be later than fourteen (14) Days after such condition or event has been encountered.

C. By way of example, events that will entitle CM@Risk to an extension of the Contract Time include acts or omissions of City or anyone under City's control (including separate contractors), changes in the Work, Differing Site Conditions, Hazardous Conditions, delays by regulating agencies, wars, floods, labor disputes, unusual delay in transportation, epidemics abroad, earthquakes, pandemics, adverse weather conditions not reasonably anticipated, and other acts of God.

D. If adverse weather conditions are the basis for a request for additional Contract Time, such requests shall be documented by data substantiating that weather conditions were abnormal for the period of time and that weather conditions had an adverse effect on the scheduled Substantial Completion. (i) It is understood, however, that permitting the CM@Risk to proceed to complete any Work, or any part of the Work, after the date to which the time of completion may have been extended, shall in no way act as a waiver on the part of the City of any of its legal rights herein. (ii) In addition to CM@Risk's right to a time extension for those events set forth in this Section, CM@Risk shall also be entitled to an

appropriate adjustment of the Contract Price provided, however, that the Contract Price shall not be adjusted for those events set forth in this Section that are beyond the control of both CM@Risk and City, including the events of war, floods, labor disputes, earthquakes, epidemics, adverse weather conditions not reasonably anticipated, and other acts of God.

E. Differing Site Conditions: If CM@Risk encounters a Differing Site Condition, CM@Risk will be entitled to an adjustment in the Contract Price and/or Contract Times to the extent CM@Risk's cost and/or time of performance are adversely impacted by the Differing Site Condition. Upon encountering a Differing Site Condition, CM@Risk shall provide prompt written notice to City of such condition, which notice shall not be later than seven (7) days after such condition has been encountered. CM@Risk shall, to the extent reasonably possible, provide such notice before the Differing Site Condition has been substantially disturbed or altered.

F. Errors, Discrepancies and Omissions. If the CM@Risk observes errors, discrepancies or omissions in the Contract Documents, he shall promptly notify the Design Professional and request clarification. If the CM@Risk proceeds with the Work affected by such known errors, discrepancies or omissions, without receiving such clarifications, he does so at his own risk. Adjustments involving such circumstances made by the CM@Risk prior to clarification by the Design Professional shall be at the CM@Risk's risk.

G. City Requested Change in Work. The City reserves the right to make, at any time during the progress of the Work, such alterations as may be found necessary or in the City's best interest. Such alterations and changes shall not invalidate this Agreement nor release the surety and the CM@Risk agrees to perform the Work as altered, the same as if it has been a part of the original Contract Documents. The City will request a proposal for a change in Work from CM@Risk, and an equitable adjustment in the Contract Price and/or Contract Times shall be made based on a mutual agreed upon cost and time.

H. Legal Requirements. The Contract Price and/or Contract Times shall be adjusted to compensate CM@Risk for the effects of any changes in the Legal Requirements enacted after the date of the Agreement or the date of the GMP proposal, affecting the performance of the Work.

I. Change Directives and Change Orders. City and CM@Risk shall negotiate in good faith and as expeditiously as possible the appropriate adjustments for a Change Directive. Upon reaching an agreement, the parties shall prepare and execute an appropriate Change Order reflecting the terms of the adjustment. All changes in Work authorized by Change Orders shall be performed under the conditions of the Contract Documents

J. Minor Changes in the Work. The City has authority to order minor changes in Work that do not materially and adversely affect the Work, including the design, quality, performance and workmanship required by the Contract Documents. Such changes shall be affected by written order and shall be binding on the City and CM@Risk. The CM@Risk shall carry out such written orders promptly. CM@Risk may make minor changes in Work, provided, however that CM@Risk shall promptly inform City, in writing, of any such changes and record such changes, if appropriate, on the Project Record Documents maintained by CM@Risk. Minor changes in Work will not involve an adjustment in the Contract Price and/or Contract Times.

K. Contract Price Adjustments The increase or decrease in Contract Price resulting from a change in the Work shall be determined by one or more of the following methods: Unit prices set forth in the

Agreement or as subsequently agreed to between the parties; A mutually accepted, lump sum, properly itemized and supported by sufficient substantiating data to permit evaluation by City; or Estimated cost of the Work, General conditions costs, if applicable, Construction fee and tax. The markups that shall be allowed on such changes shall be no greater than the markups delineated in the approved GMP proposal as shown on Exhibit B. If an increase or decrease cannot be agreed to, City issues a Change Directive, the cost of the change of the Work shall be determined by the reasonable expense and savings in the performance of the Work resulting from the change, including a reasonable overhead and profit, as may be set forth in the Agreement. CM@Risk shall maintain a documented, itemized accounting evidencing the expenses and savings associated with such changes. If unit prices are set forth in the Contract Documents or are subsequently agreed to by the parties, but application of such unit prices will cause substantial inequity to City or CM@Risk because of differences in the character or quantity of such unit items as originally contemplated, such unit prices shall be equitably adjusted. If City and CM@Risk disagree upon whether CM@Risk is entitled to be paid for any services required by City, or if there are any other disagreements over the scope of Work or proposed changes to the Work, City and CM@Risk shall resolve the disagreement pursuant to Article 8 hereof. As part of the negotiation process, CM@Risk shall furnish City with a good faith estimate of the costs to perform the disputed services in accordance with City's interpretations. If the parties are unable to agree and City expects the CM@Risk to perform the services in accordance with City's interpretations, CM@Risk shall proceed to perform the disputed services, conditioned upon City issuing a written order to CM@Risk (i) directing CM@Risk to proceed and (ii) specifying City's interpretation of the services that are to be performed.

L. Emergencies. In any emergency affecting the safety of persons and/or property, CM@Risk shall act, at its discretion, to prevent threatened damage, injury or loss. Any change in the Contract Price and/or Contract Time resulting from emergency work under this Division shall be determined as provided in this Article.

ARTICLE 7
PROCEDURE FOR PAYMENT

A. For and in consideration of the faithful performance of the Work herein embraced as set forth in the Contract Documents, which are a part hereof and in accordance with the directions of the City and to its satisfaction, the City agrees to pay the said CM@RISK the actual Cost of the Work and any applicable General Conditions Costs including, insurance and bonding, taxes and the CM@Risk's Construction Fee, but no more than the GMP as adjusted by any Change Orders. Payment for the specific work under this Agreement will be made in accordance with payment provisions detailed below.

B. GMP Payment Request at the pre-construction conference prescribed in Article 2, CM@Risk shall submit for City's review and approval a schedule of values. The schedule of values will serve as the basis for monthly progress payments made to CM@Risk throughout the Work. At least five (5) working days prior to the date established for a Payment Request, the CM@Risk shall submit an updated Project Schedule and meet with the City's Representative to review the progress of the Work as it will be reflected on the Payment Request. The Payment Request shall constitute CM@Risk's representation that the Work has been performed consistent with the Contract Documents, has progressed to the point indicated in the Payment Request, and that all Work will pass to City free and clear of all claims, liens, encumbrances, and security interests upon the incorporation of the Work into the Project and payment therefore. The Payment Request may request payment for stored equipment and materials if construction progress is in reasonable conformance with the approved Project Schedule.

1. For equipment and materials suitably stored at the Site, the equipment and materials shall be protected by suitable insurance and City shall receive the equipment and materials free and clear of all

liens and encumbrances upon payment therefore.

2. For materials and equipment stored off the Site and included in Payment Request, the City must approve the storage. The material and equipment must be stored within Maricopa County and be accessible for City's inspection. The CM@Risk must protect the City's interest and shall include applicable insurance, bonding, storage and transportation to the Site.

3. All bonds and insurance required for stored materials shall name the City as the loss payee to the extent of its interest in the stored materials.

CM@Risk shall submit payment requests to the City on the monthly anniversary of the construction Notice to Proceed beginning with the first month after the construction Notice To Proceed, Payment Request.

C. Payment of GMP. City shall make payment in accordance with A.R.S. 34-607. Payment will be made no later than fourteen (14) Days after the Payment Request is certified and approved, but in each case less the total of payments previously made, and less amounts properly retained under Section D below. City shall pay CM@Risk all amounts properly due. If City determines that CM@Risk is not entitled to all or part of a Payment Request, it will notify CM@Risk in writing within (7) Days after the date Payment Request is received by the City. The notice shall indicate the specific amounts City intends to withhold, the reasons and contractual basis for the withholding, and the specific measures CM@Risk must take to rectify City's concerns. CM@Risk and City will attempt to resolve City's concerns. If the parties cannot resolve such concerns, CM@Risk may pursue its rights under the Contract Documents, including those under Article 8 hereof.

D. Retention on GMP. City will retain ten percent (10%) of each Payment Request amount provided, however, that when fifty percent (50%) of the Work has been completed by CM@Risk, upon request of the CM@Risk, City may reduce the amount retained to five percent (5%) from CM@Risk's subsequent Payment Requests if the CM@Risk's performance of Work has been satisfactory.

E. Substantial Completion**.** Upon Substantial Completion of the entire Work or, if applicable, any portion of the Work, City shall release to CM@Risk all retained amounts relating, as applicable, to the entire Work or substantially completed portion of the Work, less an amount up to two and one half times (2.5) the reasonable value of all remaining or incomplete items of Work as noted in the Certificate of Substantial Completion.

F. Final Payment. After receipt of a final Payment Request, City shall make final payment 60 days after the receipt by the City, provided that CM@Risk has completed all of the Work in conformance with the Contract Documents and a Final Acceptance Letter has been issued by the City. At the time of submission of its final Payment Request, CM@Risk shall provide the following information:

1. An affidavit that there are no claims, obligations or liens outstanding or unsatisfied for labor, services, material, equipment, taxes or other items performed, furnished or incurred for or in connection with the Work which will in any way affect City's interests;

2. A general release executed by CM@Risk waiving, upon receipt of final payment by CM@Risk, all claims, except those claims previously made in writing to City and remaining unsettled at the time of final payment; and

3. Consent of CM@Risk's surety, if any, to final payment.

G. Payments to Subcontractors or Suppliers. CM@Risk shall pay its Subcontractors or Suppliers within seven (7) Days of receipt of each progress payment from the City. The CM@Risk shall pay for the amount of Work performed or materials supplied by each Subcontractor or supplier as accepted and approved by the City with each progress payment. In addition, any reduction of retention by the City to the CM@Risk shall result in a corresponding reduction to Subcontractors or suppliers who have performed satisfactory work. CM@Risk shall pay Subcontractors or suppliers the reduced retention within fourteen (14) Days of the payment of the reduction of the retention to the CM@Risk. No contract between CM@Risk and its Subcontractors and suppliers may materially alter the rights of any Subcontractor or supplier to receive prompt payment and retention reduction as provided herein.

If the CM@Risk fails to make payments in accordance with these provisions, the City may take any one or more of the following actions and CM@Risk agrees that the City may take such actions:

1. To hold the CM@Risk in default under this Agreement;

2. Withhold future payments including retention until proper payment has been made to Subcontractors or suppliers in accordance with these provisions;

3. Reject all future offers to perform work for the City from the CM@Risk for a period not to exceed one year from Substantial Completion date of this Project; or

4. Terminate this Agreement.

If CM@Risk's payment to a Subcontractor or supplier is in dispute, CM@Risk and Subcontractor or supplier agree to submit the dispute to any of one of the following dispute resolution processes within fourteen (14) Days from the date either party gives notice to the other: (a) binding arbitration; (b) a form of alternative dispute resolution (ADR) agreeable to all parties or (c) a City of Buckeye facilitated mediation. When disputed claim is resolved through ADR or otherwise, the CM@Risk and Subcontractor or supplier agree to implement the resolution within seven (7) Days from the resolution date.

Should the City fail or delay in exercising or enforcing any right, power, privilege, or remedy under this Section, such failure or delay shall not be deemed a waiver, release, or modification of the requirements of this Section or of any of the terms or provisions thereof.
CM@Risk shall include these prompt payment provisions in every subcontract, including procurement of materials and leases of equipment for this Agreement.

H. Record Keeping and Finance Controls.

1. Records of the CM@Risk's direct personnel payroll, reimbursable expenses pertaining to this Project and records of accounts between the City and CM@Risk shall be kept on a generally recognized accounting basis and shall be available for three years after Final Acceptance of the Project.

2. The City, its authorized representative, and/or the appropriate federal agency, reserve the right to audit the CM@Risk's records to verify the accuracy and appropriateness of all pricing data, including data used to negotiate Contract Documents and any Change Orders.

3. The City reserves the right to decrease Contract Price and/or payments made on this Agreement if, upon audit of the CM@Risk's records, the audit discloses the CM@Risk has provided false, misleading, or inaccurate cost and pricing data.

4. The CM@Risk shall include a similar provision in all of its agreements with Subconsultants and Subcontractors providing services under the Contract Documents to ensure the City, its authorized representative, and/or the appropriate federal agency, has access to the Subconsultants' and Subcontractors' records to verify the accuracy of cost and pricing data.

5. The City reserves the right to decrease Contract Price and/or payments made on this Agreement if the above provision is not included in Subconsultant's and Subcontractor's contracts, and one or more Subconsultants and/or Subcontractors do not allow the City to audit their records to verify the accuracy and appropriateness of pricing data.

ARTICLE 8
CLAIMS AND DISPUTES

1. Requests for Contract Adjustments and Relief

A. If either CM@Risk or City believes that it is entitled to relief against the other for any event arising out of or related to the Contract, such party shall provide written notice to the other party of the basis for its claim for relief.

B. Such notice shall, if possible, be made prior to incurring any cost or expense and in accordance with any specific notice requirements contained in applicable sections of the Agreement.

C. In the absence of any specific notice requirement, written notice shall be given within a reasonable time, not to exceed twenty-one (21) 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.

D. 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. Dispute Avoidance and Resolution

A. 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, CM@Risk and City 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.

B. CM@Risk and City will first attempt to resolve disputes or disagreements at the field level through discussions between CM@Risk's Representative and City's Representative.

C. If a dispute or disagreement cannot be resolved through CM@Risk's Representative and City's Representative, CM@Risk's Senior Representative and City's Senior Representative, upon the request of either party, shall meet as soon as conveniently possible, but in no case later than thirty (30) days after such a request is made, to attempt to resolve such dispute or disagreement. Prior to any meetings between the Senior Representatives, the parties will exchange relevant information that will assist the parties in resolving their dispute or disagreement.

D. Duty to Continue Performance Unless provided to the contrary in the Contract Documents, CM@Risk shall continue to perform the Work and City shall continue to satisfy its payment obligations to CM@Risk, pending the final resolution of any dispute or disagreement between CM@Risk and City.

3. Representatives of the Parties

A. City's Representatives
City designates the individual listed below or his designee as its Senior Representative ("City's Senior Representative"), which individual has the authority and responsibility for avoiding and resolving disputes:

Mr. Chris Williams, Manager
Construction & Contracting Division
530 E. Monroe Avenue
Buckeye, AZ 85326
Phone: 623.349.6225

City designates the individual listed below as its City's Representative, which individual has the authority and responsibility set forth in Article 1:

Project Manager: Steve Riley
Construction Project Manager
530 E. Monroe Avenue
Buckeye, AZ 85326
Phone: 623.687.6269

B. CM@Risk's Representatives
CM@Risk designates the individual listed below as its Senior Representative ("CM@Risk's Senior Representative"), which individual has the authority and responsibility for avoiding and resolving disputes:

Scott Breeding, Vice President
ForeSite Design and Construction, Inc.
1425 North Mondel Drive
Gilbert, Arizona 85326
Phone: 480-820-1345

CM@Risk designates the individual listed below as its CM@Risk's Representative, which individual has the authority and responsibility set forth in Article 1:

Scott Breeding, Vice President
ForeSite Design and Construction, Inc.
1425 North Mondel Drive
Gilbert, Arizona 85326
Phone: 480-820-1345

ARTICLE 9
SUSPENSION AND TERMINATION

1. City's Right to Stop Work

A. City may, at its discretion and without cause, order CM@Risk in writing to stop and suspend the Work. Such suspension shall not exceed one hundred and eighty (180) consecutive days.

B. CM@Risk may seek an adjustment of the Contract Price and/or Contract Time if its cost or time to perform the Work has been adversely impacted by any suspension or stoppage of Work by City.

2. Termination for Convenience

A. Upon receipt of written notice to CM@Risk, City may, at its discretion and without cause, elect to terminate this Agreement. In such event, City shall pay CM@Risk only the direct value of its completed Work and materials supplied as of the date of termination and the reasonable costs and expenses attributable to such termination. CM@Risk shall be entitled to profit and overhead on completed Work only, but shall not be entitled to anticipated profit or anticipated overhead.

B. If the City suspends the Work for 181 consecutive Days or more, such suspension shall be deemed a termination for convenience.

C. Upon such termination, the CM@Risk shall proceed with the following obligations:

1. Stop Work as specified in the notice;

2. Place no further subcontracts or orders;

3. Terminate all subcontracts to the extent they relate to the Work terminated;

4. Assign to the City all right, title and interest of the CM@Risk under the subcontracts terminated, in which case the City shall have the right to settle or to pay any termination settlement proposal arising out of those terminations; and

5. Take any action that may be necessary for the protection and preservation of the property related to the Contract that is in the possession of the CM@Risk and which the City has or may acquire an interest.

D. The CM@Risk shall submit complete termination inventory schedules no later than 120 Days from the date of the notice of termination.

E. The City shall pay CM@Risk the following:

1. The direct value of its completed Work and materials supplied as of the date of termination; and

2. The reasonable costs and expenses attributable to such termination.

F. CM@Risk shall be entitled to profit and overhead on completed Work only, but shall not be entitled to anticipated profit or anticipated overhead. If it appears the

G. CM@Risk would have sustained a loss on the entire Work had it been completed, the CM@Risk shall not be allowed profit and the City shall reduce the settlement to reflect the indicated rate of loss.

H. The CM@Risk shall maintain all records and documents for three years after final settlement. These records shall be maintained and subject to auditing as prescribed in Article 7.

3. City's Right to Perform and Terminate for Cause

A. If the City provides the CM@Risk with a written order to provide adequate maintenance of traffic, adequate cleanup, adequate dust control or to correct deficiencies or damage resulting from abnormal weather conditions, and the CM@Risk fails to comply in a time frame specified, the City may have work accomplished by other sources.

B. If CM@Risk persistently fails to (i) provide a sufficient number of skilled workers, (ii) supply the materials required by the Contract Documents, (iii) comply with applicable Legal Requirements, (iv) timely pay, without cause, Subconsultants and/or Subcontractors, (v) prosecute the Work with promptness and diligence to ensure that the Work is completed within the Contract Times, as such times may be adjusted, or (vi) perform material obligations under the Contract Documents, then City, in addition to any other rights and remedies provided in the Contract Documents or by law, shall have the rights set forth below.

C. Upon the occurrence of an event set forth above, City may provide written notice to CM@Risk that it intends to terminate the Agreement unless the problem cited is cured, or commenced to be cured, within seven (7) Days of CM@Risk's receipt of such notice.

D. If CM@Risk fails to cure, or reasonably commence to cure, such problem, then City may give a second written notice to CM@Risk of its intent to terminate within an additional seven (7) Day period.

E. If CM@Risk, within such second seven (7) Day period, fails to cure, or reasonably commence to cure, such problem, then City may declare the Agreement terminated for default by providing written notice to CM@Risk of such declaration.

F. Upon declaring the Agreement terminated pursuant to the above, City may enter upon the premises and take possession, for the purpose of completing the Work, of all paid for materials, scaffolds, appliances and other items thereon, which have been purchased or provided for the performance of the Work, all of which CM@Risk hereby transfers, assigns and sets over to City for such purpose, and to employ any person or persons to complete the Work and provide all of the required labor, services, materials, equipment and other items.

G. In the event of such termination, CM@Risk shall not be entitled to receive any further payments under the Contract Documents until the Work shall be finally completed in accordance with the Contract Documents. At such time, the CM@Risk will only be entitled to be paid for Work performed and accepted by the City prior to its default.

H. If City's cost and expense of completing the Work exceeds the unpaid balance of the Contract Price, then CM@Risk shall be obligated to pay the difference to City. Such costs and expense shall include not only the cost of completing the Work, but also losses, damages, costs and expense, including

reasonable attorneys' fees and expenses, incurred by City in connection with the reprocurement and defense of claims arising from CM@Risk's default.

I. If City improperly terminates the Agreement for cause, the termination for cause shall be converted to a termination for convenience in accordance with the provisions outline above.

4. Termination for Convenience of the City.

A. The City, by written notice to the Contractor, may terminate this Contract in whole or in part when sufficient appropriated or other funds are not available or in the sole discretion of the City, if or when it is in the City's best interest. In such case, the CMAR shall be paid for all Work execute and reasonable termination expenses, and a reasonable allowance for profit and overhead on Work done, provided that such payment exclusive of termination expenses shall not exceed the total Contract Price as reduced by other contract payments previously made to the Contractor and as further reduced by the value of the Work as yet not completed. The Contractor shall not be entitled to profit and overhead on Work, which was not performed.

ARTICLE 10
INSURANCE AND BONDS

1. Insurance Requirements

A. CM@Risk and Subcontractors shall procure and maintain until all of their obligations have been discharged, including any warranty periods under this Agreement are satisfied, insurance against claims for injury to persons or damage to property which may arise from or in connection with the performance of the Work hereunder by the CM@Risk, his agents, representatives, employees or Subcontractors.

B. The insurance requirements herein are minimum requirements for this Agreement and in no way limit the indemnity covenants contained in this Agreement.

C. The City in no way warrants that the minimum limits contained herein are sufficient to protect the CM@Risk from liabilities that might arise out of the performance of the Work under this Agreement by the CM@Risk, his agents, representatives, employees, or subcontractors. CM@Risk is free to purchase such additional insurance as may be determined necessary.

D. Minimum Scope And Limits Of Insurance. CM@Risk shall provide coverage with limits of liability not less than those stated below:

1. Commercial General Liability – Occurrence Form

Policy shall include bodily injury, property damage, broad form contractual liability and XCU coverage.

General Aggregate/for this Project	$2,000,000/$1,000,000
Products – Completed Operations Aggregate	$1,000,000
Personal and Advertising Injury	$1,000,000
Each Occurrence	$1,000,000

The policy shall be endorsed to include the following additional insured language: "The City of

Buckeye shall be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the CM@Risk".

2. Automobile Liability - Bodily injury and property damage for any owned, hired, and non-owned vehicles used in the performance of this Agreement.

Combined Single Limit (CSL)	$1,000,000

The policy shall be endorsed to include the following additional insured language: "The City of Buckeye shall be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the CM@Risk, including automobiles owned, leased, hired or borrowed by the CM@Risk".

3. Worker's Compensation and Employers' Liability

Workers' Compensation	Statutory
Employers' Liability	
Each Accident	$100,000
Disease - Each Employee	$100,000
Disease – Policy Limit	$500,000

The Owner and Contractor waive all rights against (1) each other and any of their subcontractors, sub-subcontractors, agents and employees, each of the other, and (2) the Architect, Architect's consultants, separate contractors, if any, and any of their subcontractors, sub-subcontractors, agents and employees, for damages caused by fire or other causes of loss to the extent covered by property insurance obtained pursuant to this Article 10 or other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by the Owner as fiduciary. The Owner or Contractor, as appropriate, shall require of the Architect, Architect's consultants, separate contractors described in Article 6, if any, and the subcontractors, sub-subcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

E. The City of Buckeye, the CM@Risk, and Subcontractors, shall be Named Insureds on the policy.

F. Coverage shall be written on an all risk, replacement cost basis and shall include coverage for flood and earth movement.

G. Policy shall be maintained until whichever of the following shall first occur: (i) final payment has been made; or, (ii) until no person or entity, other than the City of Buckeye, has an insurable interest in the property required to be covered.

H. Policy shall be endorsed such that the insurance shall not be canceled or lapse because of any partial use or occupancy by the City.

Policy must provide coverage from the time any covered property becomes the responsibility of the CM@Risk, and continue without interruption during construction, renovation, or installation, including any time during which the covered property is being transported to the construction installation site, or

awaiting installation, whether on or off site.

Policy shall contain a waiver of subrogation against the City of Buckeye.

CM@Risk is responsible for the payment of all policy deductibles.

I. Additional Insurance Requirements. The policies shall include, or be endorsed to include, the following provisions:

1. On insurance policies where the City of Buckeye is named as an additional insured, the City of Buckeye shall be an additional insured to the full limits of liability purchased by the CM@Risk even if those limits of liability are in excess of those required by this Agreement.

2. The CM@Risk's insurance coverage shall be primary insurance and non-contributory with respect to all other available sources.

3. Coverage provided by the CM@Risk shall not be limited to the liability assumed under the indemnification provisions of this Agreement.

J. Notice of Cancellation. Each insurance policy required by the insurance provisions of this Agreement shall provide the required coverage and shall not be suspended, voided, canceled, reduced in coverage or endorsed to lower limits except after thirty (30) Days prior written notice has been given to the City. Such notice shall be sent directly to the City Senior Representative and shall be sent by certified mail, return receipt requested.

K. Acceptability of Insurers. Insurance is to be placed with insurers duly licensed or approved unlicensed companies in the state of Arizona and with an "A.M. Best" rating of not less than B+ VI. The City in no way warrants that the above-required minimum insurer rating is sufficient to protect the CM@Risk from potential insurer insolvency.

L. Verification of Coverage.

1. CM@Risk shall furnish the City with certificates of insurance (ACORD form or equivalent approved by the City) as required by this Agreement. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

2. All certificates and endorsements are to be received and approved by the City before Work commences. Each insurance policy required by this Agreement must be in effect at or prior to commencement of Work under this Agreement and remain in effect for the duration of the Project. Failure to maintain the insurance policies as required by this Agreement or to provide evidence of renewal is a material breach of the contract.

3. All certificates required by this Agreement shall be sent directly to City's Senior Representative. The City project/contract number and project description shall be noted on the certificate of insurance. The City reserves the right to require complete, certified copies of all insurance policies required by this Agreement at any time. DO NOT SEND CERTIFICATES OF INSURANCE TO THE CITY'S RISK MANAGEMENT DIVISION.

4. If the Certificate of Insurance reflecting policy coverage and cancellation notice does not conform to the City's requirements, the CM@Risk must submit a current insurance certificate (dated within 15 Days of the Payment Request submittal) with each Payment Request form. The Payment Request will be rejected if the insurance certificate is not submitted with the Payment Request.

M. Subcontractors. CM@Risks' certificate(s) shall include all Subcontractors as additional insureds under its policies or CM@Risk shall furnish to the City separate certificates and endorsements for each Subcontractor. All coverages for Subcontractors shall be subject to the minimum requirements identified above.

N. Approval. Any modification or variation from the insurance requirements in this Contract shall be made by the City's Attorney, whose decision shall be final. Such action will not require a formal Contract amendment, but may be made by administrative action.

2. Bonds and Other Performance Security.

A. Prior to execution of this Agreement, the CM@Risk must provide a performance bond and a labor and materials bond, each in an amount equal to the total contract price of the GMP set forth in this Agreement.

Each such bond shall be executed by a surety company or companies holding a Certificate of Authority to transact surety business in the state of Arizona, issued by the Director of the Arizona Department of Insurance. A copy of the Certificate of Authority shall accompany the bonds. The Certificate shall have been issued, updated, or certified within two years prior to the execution of this Agreement.

The bonds shall be made payable and acceptable to the City of Buckeye.

B. The bonds shall be written or countersigned by an authorized representative of the surety who is either a resident of the state of Arizona or whose principal office is maintained in this state, as by law required, and the bonds shall have attached thereto a certified copy of Power of Attorney of the signing official.

If one Power of Attorney is submitted, it shall be for twice the total contract price of the GMP .
If two Powers of Attorney are submitted, each shall be for the total contract price of the GMP. Personal or individual bonds are not acceptable.

C. Upon the request of any person or entity appearing to be a potential beneficiary of bonds covering payment of obligations arising under the Contract Documents, the CM@Risk shall promptly furnish a copy of the bonds or shall permit a copy to be made.

All bonds submitted for this project shall be provided by a company which has been rated AM Best rating of "A- or better for the prior four quarters" by the A.M. Best Company.

ARTICLE 11
INDEMNIFICATION

CM@Risk's General Indemnification. CM@Risk agrees to indemnify and save harmless the City of Buckeye, its officers, agents and employees, and any jurisdiction or agency issuing permits for any work

included in the Project, their officers, agents and employees, hereinafter referred to as indemnitee, from all suits and claims, including attorney's fees and cost of litigation, actions, loss, damage, expense, cost or claims of any character or any nature arising out of the work done in fulfillment of the terms of the Contract Documents or on account of any act, claim or amount arising or recovered under worker's compensation law or arising out of the failure of the CM@Risk to conform to any statutes, ordinances, regulation, law or court decree. It is agreed that the CM@Risk will be responsible for primary loss investigation, defense and judgment costs where this contract of indemnity applies. In consideration of the award of this contract, the Contractor agrees to waive all rights of subrogation against the City, its officers, officials, agents and employees for losses arising from the work performed by the Contractor for the City.

ARTICLE 12
GENERAL PROVISIONS

1. Contract Documents.

A. Contract Documents are as defined in Article 1. This Agreement, Plans, Standard Specifications and Details, Special Provisions, Exhibits are used as the basis for the Guaranteed Maximum Price Proposal; GMP, Performance Bond, Payment Bond, Certificates of Insurance, Construction Documents and Change Orders (if any) are by this reference made a part of this Agreement to the same extent as if set forth herein in full.

B. The Contract Documents are intended to permit the parties to complete the Work and all obligations required by the Contract Documents within the Contract Times for the Contract Price. The Contract Documents are intended to be complementary and interpreted in harmony so as to avoid conflict, with words and phrases interpreted in a manner consistent with construction and design industry standards.

C. In the event of any inconsistency, conflict, or ambiguity between or among the Contract Documents, the Contract Documents shall take precedence in the order in which they are listed in the definition of Contract Documents in Article 1.

D. On the drawings, given dimensions shall take precedence over scaled measurements, and large scale drawings over small-scale drawings.

E. Specifications take precedence over Plans.

F. In the event of any inconsistency, conflict, or ambiguity between the Contract Documents and the Design Phase Contract, the Contract Documents take precedence over the Design Phase Contract

G. The headings used in this Agreement, or any other Contract Documents, are for ease of reference only and shall not in any way be construed to limit or alter the meaning of any provision.

H. The Contract Documents form the entire agreement between City and CM@Risk and by incorporation herein are as fully binding on the parties as if repeated herein. No oral representations or other agreements have been made by the parties except as specifically stated in the Contract Documents.

2. Amendments.

The Contract Documents may not be changed, altered, or amended in any way except in writing signed by a duly authorized representative of each party.

3. Time is of the Essence.

City and CM@Risk mutually agree that time is of the essence with respect to the dates and times set forth in the Contract Documents.

4. Mutual Obligations.

City and CM@Risk commit at all times to cooperate fully with each other, and proceed on the basis of trust and good faith, to permit each party to realize the benefits afforded under the Contract Documents.

5. Cooperation and Further Documentation.

The CM@Risk agrees to provide the City such other duly executed documents as shall be reasonably requested by the City to implement the intent of the Contract Documents.

6. Assignment.

Neither CM@Risk nor City shall, without the written consent of the other assign, transfer or sublet any portion of this Agreement or part of the Work or the obligations required by the Contract Documents.

7. Successorship.

CM@Risk and City intend that the provisions of the Contract Documents are binding upon the parties, their employees, agents, heirs, successors and assigns.

8. Third Party Beneficiary.

Nothing under the Contract Documents shall be construed to give any rights or benefits in the Contract Documents to anyone other than the City and the CM@Risk, and all duties and responsibilities undertaken pursuant to the Contract Documents will be for the sole and exclusive benefit of City and the CM@Risk and not for the benefit of any other party.

9. Governing Law.

The Agreement and all Contract Documents shall be deemed to be made under, and shall be construed in accordance with and governed by the laws of the State of Arizona without regard to the conflicts or choice of law provisions thereof. Any action to enforce any provision of this Contract or to obtain any remedy with respect hereto shall be brought in the Superior Court, Maricopa County, Arizona, and for this purpose, each party hereby expressly and irrevocably consents to the jurisdiction and venue of such Court.

10. Severability.

If any provision of the Contract Documents or the application thereof to any person or circumstance shall

be invalid, illegal or unenforceable to any extent, the remainder of the Contract Documents and the application thereof shall not be affected and shall be enforceable to the fullest extent permitted by law.

11. Compliance with Federal Laws.

CM@Risk understands and acknowledges the applicability of the American with Disabilities Act, the Immigration Reform and Control Act of 1986 and the Drug Free Workplace Act of 1989 to it. The CM@Risk agrees to comply with these laws in performing the Contract Documents and to permit the City to verify such compliance.

12. Legal Requirements.

CM@Risk shall perform all Work in accordance with all Legal Requirements and shall provide all notices applicable to the Work as required by the Legal Requirements. It is not the CM@Risk's responsibility to ascertain that the Construction Documents are in accordance with applicable laws, statutes, ordinances, building codes, rules and regulations. However, if the CM@Risk recognizes that portions of the Construction Documents are at variance therewith, the CM@Risk shall promptly notify the Design Professional and City in writing, describing the apparent variance or deficiency.

13. **Fair Treatment of Workers.**

The CM@Risk shall keep fully informed of all Federal and State laws, County and City ordinances, regulations, codes and all orders and decrees of bodies or tribunals having any jurisdiction or authority, which in any way affect the conduct of the work. He shall at all times observe and comply with all such laws, ordinances, regulations, codes, orders and decrees; this includes, but is not limited to laws and regulations ensuring fair and equal treatment for all employees and against unfair employment practices, including OSHA and the Fair Labor Standards Act (FLSA). The CM@Risk shall protect and indemnify the City and its representatives against any claim or liability arising from or based on the violation of such, whether by himself or his employees.

14. Independent Contractor.

The CM@Risk is and shall be an independent contractor. Any provisions in the Contract Documents that may appear to give the City the right to direct the CM@Risk as to the details of accomplishing the Work or to exercise a measure of control over the Work means that the CM@Risk shall follow the wishes of the City as to the results of the Work only. These results shall comply with all applicable laws and ordinances.

15. City's Right Of Cancellation.

All parties hereto acknowledge that this Agreement is subject to cancellation by the City of Buckeye pursuant to the provisions of Section 38-511, Arizona Revised Statutes.

16. Survival.

All warranties, representations and indemnifications by the CM@Risk shall survive the completion or termination of this Agreement.

17. Covenant Against Contingent Fees.
The CM@Risk warrants that no person has been employed or retained to solicit or secure this Agreement upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, and that no member of the City Council, or any employee of the City of Buckeye has any interest, financially, or otherwise, in the firm. For breach or violation of this warrant, the City of Buckeye shall have the right to annul this Agreement without liability, or at its discretion to deduct from the Contract Price or consideration, the full amount of such commission, percentage, brokerage, or contingent fee.

18. No Waiver.

The failure of either party to enforce any of the provisions of the Contract Documents or to require performance of the other party of any of the provisions hereof shall not be construed to be a waiver of such provisions, nor shall it affect the validity of the Contract Documents or any part thereof, or the right of either party to thereafter enforce each and every provision.

19. Notice.

A. Unless otherwise provided, any notice, request, instruction or other document to be given under this Agreement by any party to any other party shall be in writing and shall be delivered in person or by courier or facsimile transmission or mailed by certified mail, postage prepaid, return receipt requested and shall be deemed given upon (a) confirmation of receipt of a facsimile transmission, (b) confirmed delivery by hand or standard overnight mail or (c) upon the expiration of three (3) business days after the day mailed by certified mail, as follows:

to CM@Risk:

Scott Breeding, Vice President
ForeSite Design and Construction, Inc.
1425 North Mondel Drive
Gilbert, Arizona 85326
Phone: 480.820.1345

to City of Buckeye:
Chris Williams, Manager
Construction & Contracting Division
530 E. Monroe Avenue
Buckeye, Arizona 85326
Phone: 623.349.6225

to Design Professional:
Matthew A. Gorman, Principal
Arrington Watkins Architect
5240 N. 16th St., Suite 101
Phoenix, Arizona 85016
Phone: 602.279.4373

or to such other place and with such other copies as either Party may designate as to itself by written notice to the other Party. Rejection, any refusal to accept or the inability to deliver because of changed

address of which no notice was given shall be deemed to be receipt of the notice as of the date of such rejection, refusal or inability to deliver.

B. Notices Related to Payment, Securities-in-lieu, and Bonds. Any notice, request, instruction or other document to be given under this Agreement by any party to any other party related to payment, securities-in-lieu, bonds or other instrument securing the performance of this Agreement, including but not limited to, bid bonds, performance bonds, payment bonds or letters of credit, shall be in writing and shall be delivered in person or by courier or facsimile transmission or mailed by certified mail, postage prepaid, return receipt requested and shall be deemed given upon (a) confirmation of receipt of a facsimile transmission, (b) confirmed delivery by hand or standard overnight mail or (c) upon the expiration of three (3) business days after the day mailed by certified mail, as follows:

to CM@Risk :
Matthew A. Gorman, Principal
Arrington Watkins Architect
5240 N. 16th St., Suite 101
Phoenix, Arizona 85016
Phone: 602.279.4373

to City of Buckeye:
Chris Williams, Manager
Construction & Contracting Division
530 E. Monroe Avenue
Buckeye, Arizona 85326
Phone: 623.349.6225

or to such other place and with such other copies as either Party may designate as to itself by written notice to the other Party. Rejection, any refusal to accept or the inability to deliver because of changed address of which no notice was given shall be deemed to be receipt of the notice as of the date of such rejection, refusal or inability to deliver.

20. Hazardous Materials.

A. Unless included in the Work, if the CM@Risk encounters onsite material which he reasonably believes to contain asbestos, polychlorinated biphenyl (PCB), or other hazardous substances or materials regulated by Public Health Laws, he shall immediately stop work and report the condition to the City.

B. If the material is found to contain asbestos, PCB or other hazardous substances or materials regulated by Public Health Laws, the CM@Risk shall not resume work in the affected area until the material has been abated or rendered harmless. The CM@Risk and the City may agree, in writing, to continue work in non-affected areas onsite.

C. An extension of Contract Time may be granted in accordance with Article 6.

D. The CM@Risk will comply with all applicable laws/ordinances and regulations and take all appropriate health and safety precautions upon discovery.

21. Traffic Control.

CM@Risk will comply with all provisions of the current version of the MUTCD, Part VI and any other traffic control provisions as may be provided in the technical specifications.

22. E-Verify Requirements.

A. To the extent applicable under Arizona Revised Statute § 41-4401, the Contractor and its subcontractors warrant compliance with all federal immigration laws and regulations that relate to their employees and their compliance with the E-verify requirements under Arizona Revised Statute § 23-214(A). The Contractor or subcontractor's breach of the above-mentioned warranty shall be deemed a material breach of the Contract and may result in the termination of the Contract by the City of Buckeye. The City of Buckeye retains the legal right to randomly inspect the papers and records of the Contractor or subcontractor employee who work on the Contract to ensure that the Contractor and its subcontractors are complying with the above-mentioned warranty.

B. The Contractor and its subcontractors warrant to keep the papers and records open for random inspection during normal business hours by the City. The Contractor and its subcontractors shall cooperate with City's random inspections including granting the City's entry rights onto its property to perform the random inspections and waiving their respective rights to keep such papers and records confidential.

22. Israel.

Pursuant to Arizona Revised Statute § 35-393.01, CM@Risk certifies that it is not currently engaged in, and agrees for the duration of the Contract to not engaged in, a boycott of Israel, or any entity that does business in Israel or any territories controlled by Israel.
[Signature Page to Follow]

THEREFORE, the City of Buckeye by its Mayor and City Clerk have hereunto subscribed their names this _____.

CITY:
THE CITY OF BUCKEYE, ARIZONA
an Arizona Municipal corporation

By: _____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda Aja, City Clerk

RECOMMENDED:

CA Williams
_____
Christopher A. Williams, Manager
Construction & Contracting

APPROVED AS TO FORM:

_____
City Attorney

CONSULTANT:
FORESITE DESIGN & CONSTRUCTION, INC.

W. Scott breeding
_____
Scott Breeding, Vice President

EXHIBIT A
TO
CONSTRUCTION SERVICES CONTRACT
BETWEEN
CITY OF BUCKEYE
AND
FORESITE DESIGN AND CONSTRUCTION, INC.

CONTRACTOR'S PROPOSAL
[SEE FOLLOWING PAGES]

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.N. Redistricting Services
DATE PREPARED: 08/12/21	**DISTRICT NO.:** ALL
STAFF LIAISON: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov (623) 349-6225	
DEPARTMENT: City Clerk	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council) Council to take action on the Professional Service Agreement (No. 2021028.1) between the City of Buckeye, an Arizona municipal corporation, and National Demographics Corporation, in partnership with Bruce Adelson of Federal Compliance Consulting, LLC. a Maryland corporation, to assist the City in the redistricting process by preparing plans for district boundaries; and authorizing the Mayor to execute and deliver said Agreement on behalf of the City.

RELEVANT GOALS:
GOAL 3: A Well-Planned Urban Community

SUMMARY

PROJECT DESCRIPTION:
The City of Buckeye's Clerks Office is in need of professional services to assist the City in the redistricting process. The Request for Proposals was issued on Thursday, April 15, 2021. There was no need for a pre-bid meeting. After a review of the proposals, an evaluation team of five determined that National Demographics Corporation (NDC) in partnership with Bruce Adelson of Federal Compliance Consulting, LLC was responsive and responsible and it is recommended they be awarded this agreement.

BENEFITS:
Allow the City to maintain a well-planned urban community.

FUTURE ACTION:
Issue purchase order for payments.

FINANCIAL IMPACT STATEMENT:
10001102 520037 - Professional Services General

CURRENT FISCAL YEAR TOTAL COST:
$106,450

BUDGETED:
Yes

FISCAL YEAR:
2021/2022

FUND/DEPARTMENT:
10001102 520037

Items related to a project or facility location must include an attached vicinity map for Council Review.

ATTACHMENTS:

National Demographics Corporation.pdf

PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF BUCKEYE
AND
NATIONAL DEMOGRAPHICS CORPORATION
CONTRACT No. 2021028.1

THIS PROFESSIONAL SERVICES AGREEMENT (this "Agreement") is entered into by and between the City of Buckeye, an Arizona municipal corporation (the "City") and National Demographics Corporation (NDC) in partnership with Bruce Adelson of Federal Compliance Consulting, LLC., a Maryland corporation (the "Consultant").

RECITALS

The City issued a Request for Proposals No. 2021028 (the "RFP") for Redistricting Services, attached hereto as Exhibit A and incorporated herein by reference.

The Consultant submitted a proposal (the "Proposal"), attached hereto as Exhibit B and incorporated herein by reference, and the City desires to enter into an Agreement with the Consultant (the "Services").

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing recitals, which are incorporated herein by reference, the following mutual covenants and conditions, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the City and the Consultant hereby agree as follows:

1. Term of Agreement. This Agreement shall be effective as of the date fully executed by the City and shall remain in full force and effect for one (1) year or until such time as the Scope of Services is completed and approved by the City, or unless terminated as otherwise provided pursuant to the terms and conditions of this Agreement.

2. Scope of Work. The Consultant shall provide the Services as set forth in the Proposal, attached hereto as Exhibit A and incorporated herein by reference.

3. Compensation. The City shall pay Consultant a total amount not to exceed **One Hundred Six Thousand Four Hundred Fifty Dollars and Zero Cents ($106,450.00)** at the rates as set forth in the Fee Schedule, attached hereto as Exhibit C and incorporated herein by reference.

4. Payments. The City shall pay the Consultant monthly, based upon work performed and completed to date, and upon submission and approval of invoices. All invoices shall document and itemize all work completed to date. The invoice statement shall include a record of time expended and work performed in sufficient detail to justify payment.

5. Documents. All documents prepared and submitted to the City pursuant to this Agreement shall be the property of the City.

6. Consultant Personnel. The Consultant shall provide adequate, experienced personnel, capable of and devoted to the successful completion of the Services to be performed under this Agreement. The

Consultant agrees to assign specific individuals to key positions. The Consultant agrees that, upon commencement of the Services to be performed under this Agreement, key personnel shall not be removed or replaced without prior written notice to the City. If key personnel are not available to perform the Services for a continuous period exceeding 30 calendar days, or are expected to devote substantially less effort to the Services than initially anticipated, The Consultant shall immediately notify the City of same and shall, subject to the concurrence of the City, replace such personnel with personnel of substantially equal ability and qualifications.

7. Inspection; Acceptance. All work shall be subject to inspection and acceptance by the City at reasonable times during the Consultant's performance. The Consultant shall provide and maintain a self-inspection system that is acceptable to the City.

8. Licenses; Materials. The Consultant shall maintain in current status all federal, state and local licenses and permits required for the operation of the business conducted by the Consultant. The City has no obligation to provide the Consultant, its employees or sub-consultants any business registrations or licenses required to perform the specific services set forth in this Agreement. The City has no obligation to provide tools, equipment or material to the Consultant.

9. Performance Warranty. The Consultant warrants that the Services rendered will conform to the requirements of this Agreement and to the highest professional standards in the field.

10. Indemnification. To the fullest extent permitted by law, the Consultant shall indemnify, defend and hold harmless the City and each council member, officer, employee or agent thereof (the City and any such person being herein called an "Indemnified Party"), for, from and against any and all losses, claims, damages, liabilities, costs and expenses (including, but not limited to, reasonable attorneys' fees, court costs and the costs of appellate proceedings) to which any such Indemnified Party may become subject, under any theory of liability whatsoever ("Claims"), insofar as such Claims (or actions in respect thereof) relate to, arise out of, or are caused by or based upon the negligent acts, intentional misconduct, errors, mistakes or omissions, in connection with the work or services of the Consultant, its officers, employees, agents, or any tier of sub-consultant in the performance of this Agreement. The amount and type of insurance coverage requirements set forth below will in no way be construed as limiting the scope of the indemnity in this Section.

11. Insurance.

11.1 General.

A. Insurer Qualifications. Without limiting any obligations or liabilities of the Consultant, the Consultant shall purchase and maintain, at its own expense, hereinafter stipulated minimum insurance with insurance companies duly licensed by the State of Arizona with an AM Best, Inc. rating of A- or above with policies and forms satisfactory to the City. Failure to maintain insurance as specified herein may result in termination of this Agreement at the City's option.

B. No Representation of Coverage Adequacy. By requiring insurance herein, the City does not represent that coverage and limits will be adequate to protect the Consultant. The City reserves the right to review any and all of the insurance policies and/or endorsements cited in this Agreement but has no

obligation to do so. Failure to demand such evidence of full compliance with the insurance requirements set forth in this Agreement or failure to identify any insurance deficiency shall not relieve the Consultant from, nor be construed or deemed a waiver of, its obligation to maintain the required insurance at all times during the performance of this Agreement.

C. Additional Insured. All insurance coverage and self-insured retention or deductible portions, except Workers' Compensation insurance and Professional Liability insurance, if applicable, shall name, to the fullest extent permitted by law for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, directors, officials and employees as Additional Insured as specified under the respective coverage Parts of this Agreement.

D. Coverage Term. All insurance required herein shall be maintained in full force and effect until all work or services required to be performed under the terms of this Agreement are satisfactorily performed, completed and formally accepted by the City, unless specified otherwise in this Agreement.

E. Primary Insurance. The Consultant's insurance shall be primary insurance with respect to performance of this Agreement and in the protection of the City as an Additional Insured.

F. Waiver. All policies, except for Professional Liability, including Workers' Compensation insurance, shall contain a waiver of rights of recovery (subrogation) against the City, its agents, representatives, officials, officers and employees for any claims arising out of the work or services of the Consultant. The Consultant shall arrange to have such subrogation waivers incorporated into each policy via formal written endorsement thereto.

G. Policy Deductibles and/or Self-Insured Retentions. The policies set forth in these requirements may provide coverage that contains deductibles or self-insured retention amounts. Such deductibles or self-insured retention shall not be applicable with respect to the policy limits provided to the City. The Consultant shall be solely responsible for any such deductible or self-insured retention amount.

H. Use of Sub-consultants. If any work under this Agreement is subcontracted in any way, the Consultant shall execute written agreements with its sub-consultants containing the indemnification provisions set forth in this Section and insurance requirements set forth herein protecting the City and the Consultant. The Consultant shall be responsible for executing any agreements with its sub-consultants and obtaining certificates of insurance verifying the insurance requirements.

I. Evidence of Insurance. Prior to commencing any work or services under this Agreement, the Consultant will provide the City with suitable evidence of insurance in the form of certificates of insurance and a copy of the declaration page(s) of the insurance policies as required by this Agreement, issued by the Consultant's insurance insurer(s) as evidence that policies are placed with acceptable insurers as specified herein and provide the required coverages, conditions and limits of coverage specified in this Agreement and that such coverage and provisions are in full force and effect. Confidential information such as the policy premium may be redacted from the declaration page(s) of each insurance policy, provided that such redactions do not alter any of the information required by this Agreement. The City shall reasonably rely upon the certificates of insurance and declaration page(s) of the insurance policies as evidence of coverage but such acceptance and reliance shall not waive or alter in any way the insurance requirements or obligations of this Agreement. In the event any insurance policy required by this

Agreement is written on a "claims made" basis, coverage shall extend for two years past completion of the Services and the City's acceptance of the Consultant's work or services and as evidenced by annual certificates of insurance. If any of the policies required by this Agreement expire during the life of this Agreement, it shall be the Consultant's responsibility to forward renewal certificates and declaration page(s) to the City 30 days prior to the expiration date. All certificates of insurance and declarations required by this Agreement shall be identified by referencing the RFP number and title of this Agreement. A $25.00 administrative fee shall be assessed for all certificates or declarations received without the appropriate RFP number and title or a reference to this Agreement, as applicable. Additionally, certificates of insurance and declaration page(s) of the insurance policies submitted without referencing the appropriate RFP number and title or reference to this Agreement, as applicable, will be subject to rejection and may be returned or discarded. Certificates of insurance and declaration page(s) shall specifically include the following provisions:

(1) The City, its agents, representatives, officers, directors, officials and employees are Additional Insureds as follows:

(a) Commercial General Liability - Under Insurance Services Office, Inc., ("ISO") Form CG 20 10 03 97 or equivalent.

(b) Auto Liability - Under ISO Form CA 20 48 or equivalent.

(c) Excess Liability - Follow Form to underlying insurance.

(2) The Consultant's insurance shall be primary insurance as respects performance of the Agreement.

(3) All policies, except for Professional Liability, including Workers' Compensation, waive rights of recovery (subrogation) against the City, its agents, representatives, officers, officials and employees for any claims arising out of work or services performed by the Consultant under this Agreement.

(4) A 30-day advance notice cancellation provision. If ACORD certificate of insurance form is used, the phrases in the cancellation provision "endeavor to" and "but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives" shall be deleted. Certificate forms other than ACORD form shall have similar restrictive language deleted.

11.2 Required Insurance Coverage.

A. Commercial General Liability. The Consultant shall maintain "occurrence" form Commercial General Liability insurance with an unimpaired limit of not less than $1,000,000 for each occurrence, $2,000,000 Products and Completed Operations Annual Aggregate and a $2,000,000 General Aggregate Limit. The policy shall cover liability arising from premises, operations, independent consultants, products-completed operations, personal injury and advertising injury. Coverage under the policy will be at least as broad as ISO policy form CG 00 010 93 or equivalent thereof, including but not limited to, separation of insured's clause. To the fullest extent allowed by law, for claims arising out of the

performance of this Agreement, the City, its agents, representatives, officers, officials and employees shall be cited as an Additional Insured under ISO, Commercial General Liability Additional Insured Endorsement form CG 20 10 03 97, or equivalent, which shall read "Who is an Insured (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of "your work" for that insured by or for you." If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.

B. Vehicle Liability. The Consultant shall maintain Business Automobile Liability insurance with a limit of $1,000,000 each occurrence on the Consultant's owned, hired and non-owned vehicles assigned to or used in the performance of the Consultant's work or services under this Agreement. Coverage will be at least as broad as ISO coverage code "1" "any auto" policy form CA 00 01 12 93 or equivalent thereof. To the fullest extent allowed by law, for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, directors, officials and employees shall be cited as an Additional Insured under ISO Business Auto policy Designated Insured Endorsement form CA 20 48 or equivalent. If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.

C. Professional Liability. If this Agreement is the subject of any professional services or work, or if the Consultant engages in any professional services or work adjunct or residual to performing the work under this Agreement, the Consultant shall maintain Professional Liability insurance covering negligent errors and omissions arising out of the Services performed by the Consultant, or anyone employed by the Consultant, or anyone for whose negligent acts, mistakes, errors and omissions the Consultant is legally liable, with an unimpaired liability insurance limit of $1,000,000 each claim and $2,000,000 annual aggregate. In the event the Professional Liability insurance policy is written on a "claims made" basis, coverage shall extend for two years past completion and acceptance of the Services, and the Consultant shall be required to submit certificates of insurance and a copy of the declaration page(s) of the insurance policies evidencing proper coverage is in effect as required above.

D. Workers' Compensation Insurance. The Consultant shall maintain Workers' Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction over the Consultant's employees engaged in the performance of work or services under this Agreement and shall also maintain Employers Liability Insurance of not less than $500,000 for each accident, $500,000 disease for each employee and $1,000,000 disease policy limit.

11.3 Cancellation and Expiration Notice. Insurance required herein shall not expire, be canceled, or materially change without 30 days' prior written notice to the City.

12. Applicable Law; Venue. In the performance of this Agreement, the Consultant shall abide by and conform to any and all laws of the United States, State of Arizona and the City of Buckeye, including but not limited to, federal and state executive orders providing for equal employment and procurement opportunities, the Federal Occupational Safety and Health Act and any other federal or state laws applicable to this Agreement. This Agreement shall be governed by the laws of the State of Arizona and suit pertaining to this Agreement may be brought only in courts in the State of Arizona.

13. Termination; Cancellation.

13.1 For City's Convenience. This Agreement is for the convenience of the City and, as such, may be terminated without cause after receipt by the Consultant of written notice by the City. Upon termination for convenience, the Consultant shall be paid for all undisputed services performed to the termination date.

13.2 For Cause. This Agreement may be terminated by either party upon 30 days' written notice should the other party fail to substantially perform in accordance with this Agreement's terms, through no fault of the party initiating the termination.

13.3 Due to Work Stoppage. This Agreement may be terminated by the City upon 30 days' written notice to the Consultant in the event that the Services are permanently abandoned. In the event of such termination due to work stoppage, payment shall be made by the City to the Consultant for the undisputed portion of its fee due as of the termination date.

13.4 Conflict of Interest. This Agreement is subject to the provisions of ARIZ. REV. STAT. § 38-511. The City may cancel this Agreement without penalty or further obligations by the City or any of its departments or agencies if any person significantly involved in initiating, negotiating, securing, drafting or creating this Agreement on behalf of the City or any of its departments or agencies is, at any time while the Agreement or any extension of the Agreement is in effect, an employee of any other party to the Agreement in any capacity or a consultant to any other party of the Agreement with respect to the subject matter of the Agreement.

13.5 Gratuities. The City may, by written notice to the Consultant, cancel this Agreement if it is found by the City that gratuities, in the form of economic opportunity, future employment, entertainment, gifts or otherwise, were offered or given by the Consultant or any agent or representative of the Consultant to any officer, agent or employee of the City for the purpose of securing this Agreement. In the event this Agreement is cancelled by the City pursuant to this provision, the City shall be entitled, in addition to any other rights and remedies, to recover or withhold from the Consultant an amount equal to 150% of the gratuity.

13.6 Agreement Subject to Appropriation. The provisions of this Agreement for payment of funds by the City shall be effective when funds are appropriated for purposes of this Agreement and are actually available for payment. The City shall be the sole judge and authority in determining the availability of funds under this Agreement and the City shall keep the Consultant fully informed as to the availability of funds for the Agreement. The obligation of the City to make any payment pursuant to this Agreement is a current expense of the City, payable exclusively from such annual appropriations, and is not a general obligation or indebtedness of the City. If the City Council fails to appropriate money sufficient to pay the amounts as set forth in this Agreement during any immediately succeeding fiscal year, this Agreement shall terminate at the end of then-current fiscal year and the City and the Consultant shall relieved of any subsequent obligation under this Agreement.

14. Miscellaneous.

14.1 Independent Contractor. The Consultant acknowledges and agrees that the Services provided under this Agreement are being provided as an independent contractor, not as an employee or agent of the City. The Consultant, its employees and sub-consultants are not entitled to workers' compensation benefits from the City. The City does not have the authority to supervise or control the actual work of the Consultant, its employees or sub-consultants. The Consultant, and not the City, shall determine the time of its performance of the services provided under this Agreement so long as the Consultant meets the requirements of its agreed Scope of Work as set forth in Section 2 above. The Consultant is neither prohibited from entering into other contracts nor prohibited from practicing its profession elsewhere. The City and the Consultant do not intend to nor will they combine business operations under this Agreement.

14.2 Laws and Regulations. The Consultant shall keep fully informed and shall at all times during the performance of its duties under this Agreement ensure that it and any person for whom the Consultant is responsible remains in compliance with all rules, regulations, ordinances, statutes or laws affecting the Services, including the following: (A) existing and future City and County ordinances and regulations, (B) existing and future state and federal laws and (C) existing and future Occupational Safety and Health Administration ("OSHA") standards.

14.3 Amendments. This Agreement may be modified only by a written amendment signed by persons duly authorized to enter into contracts on behalf of the City and the Consultant.

14.4 Provisions Required by Law. Each and every provision of law and any clause required by law to be in the Agreement will be read and enforced as though it were included herein and, if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, the Agreement will promptly be physically amended to make such insertion or correction.

14.5 Severability. The provisions of this Agreement are severable to the extent that any provision or application held to be invalid by a Court of competent jurisdiction shall not affect any other provision or application of the Agreement which may remain in effect without the invalid provision or application.

14.6 Relationship of the Parties. It is clearly understood that each party will act in its individual capacity and not as an agent, employee, partner, joint venturer, or associate of the other. An employee or agent of one party shall not be deemed or construed to be the employee or agent of the other for any purpose whatsoever. The Consultant is advised that taxes or Social Security payments will not be withheld from any City payments issued hereunder and the Consultant agrees to be fully and solely responsible for the payment of such taxes or any other tax applicable to this Agreement.

14.7 Entire Agreement; Interpretation; Parol Evidence. This Agreement represents the entire agreement of the parties with respect to its subject matter, and all previous agreements, whether oral or written, entered into prior to this Agreement are hereby revoked and superseded by this Agreement. No representations, warranties, inducements or oral agreements have been made by any of the parties except as expressly set forth herein, or in any other contemporaneous written agreement executed for the purposes of carrying out the provisions of this Agreement. This Agreement shall be construed and interpreted according to its plain meaning, and no presumption shall be deemed to apply in favor of, or against the party drafting the Agreement. The parties acknowledge and agree that each has had the opportunity to seek and utilize legal counsel in the drafting of, review of, and entry into this Agreement.

14.8 Assignment. No right or interest in this Agreement shall be assigned by the Consultant without prior, written permission of the City signed by the City Manager and no delegation of any duty of the Consultant shall be made without prior, written permission of the City signed by the City Manager. Any attempted assignment or delegation by the Consultant in violation of this provision shall be a breach of this Agreement by the Consultant.

14.9 Subcontracts. No subcontract shall be entered into by the Consultant with any other party to furnish any of the material or services specified herein without the prior written approval of the City. The Consultant is responsible for performance under this Agreement whether or not sub-consultants are used.

14.10 Rights and Remedies. No provision in this Agreement shall be construed, expressly or by implication, as waiver by the City of any existing or future right and/or remedy available by law in the event of any claim of default or breach of this Agreement. The failure of the City to insist upon the strict performance of any term or condition of this Agreement or to exercise or delay the exercise of any right or remedy provided in this Agreement, or by law, or the City's acceptance of and payment for services, shall not release the Consultant from any responsibilities or obligations imposed by this Agreement or by law, and shall not be deemed a waiver of any right of the City to insist upon the strict performance of this Agreement.

14.11 Attorneys' Fees. In the event either party brings any action for any relief, declaratory or otherwise, arising out of this Agreement or on account of any breach or default hereof, the prevailing party shall be entitled to receive from the other party reasonable attorneys' fees and reasonable costs and expenses, determined by the court sitting without a jury, which shall be deemed to have accrued on the commencement of such action and shall be enforced whether or not such action is prosecuted through judgment.

14.12 Liens. All materials or services shall be free of all liens and, if the City requests, a formal release of all liens shall be delivered to the City.

14.13 Offset.

A. Offset for Damages. In addition to all other remedies at law or equity, the City may offset from any money due to the Consultant any amounts the Consultant owes to the City for damages resulting from breach or deficiencies in performance or breach of any obligation under this Agreement.

B. Offset for Delinquent Fees or Taxes. The City may offset from any money due to the Consultant any amounts the Consultant owes to the City for delinquent fees, transaction privilege taxes and property taxes, including any interest or penalties.

14.14 Notices and Requests. Any notice or other communication required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been duly given if (A) delivered to the party at the address set forth below, (B) deposited in the U.S. Mail, registered or certified, return receipt requested, to the address set forth below, (C) given to a recognized and reputable overnight delivery service, to the address set forth below or (D) delivered by facsimile transmission to the number set forth below:

If to the City:	City of Buckeye ATTN: Chris Williams, Manager Construction & Contracting Division 530 East Monroe Avenue Buckeye, Arizona 85326 Facsimile: (623) 349-6221
With copy to:	Gust Rosenfeld, p.l.c. ATTN: Shiela B Schmidt One East Washington Street, Suite 1600 Phoenix, Arizona 85004-2553 Facsimile: (602) 254-4878
If to Consultant:	National Demographics Inc. ATTN: Douglas Johnson PO BOX 5271 Glendale, CA 91221 Facsimile: (818) 254-1221

or at such other address, and to the attention of such other person or officer, as any party may designate in writing by notice duly given pursuant to this subsection. Notices shall be deemed received (A) when delivered to the party, (B) three business days after being placed in the U.S. Mail, properly addressed, with sufficient postage, (C) the following business day after being given to a recognized overnight delivery service, with the person giving the notice paying all required charges and instructing the delivery service to deliver on the following business day, or (D) when received by facsimile transmission during the normal business hours of the recipient. If a copy of a notice is also given to a party's counsel or other recipient, the provisions above governing the date on which a notice is deemed to have been received by a party shall mean and refer to the date on which the party, and not its counsel or other recipient to which a copy of the notice may be sent, is deemed to have received the notice.

14.15 Confidentiality of Records. The Consultant shall establish and maintain procedures and controls that are acceptable to the City for the purpose of ensuring that information contained in its records or obtained from the City or from others in carrying out its obligations under this Agreement shall not be used or disclosed by it, its agents, officers, or employees, except as required to perform the Consultant's duties under this Agreement. Persons requesting such information should be referred to the City. The Consultant also agrees that any information pertaining to individual persons shall not be divulged other than to employees or officers of the Consultant as needed for the performance of duties under this Agreement.

14.16 Information Technology.

A. Limited Access. If necessary for the fulfillment of the Agreement, the City may provide the Consultant with non-exclusive, limited access to the City's information technology infrastructure. The Consultant understands and agrees to abide by all the City policies, standards, regulations and restrictions regarding access and usage of the City's information technology infrastructure. The Consultant shall enforce all such policies, standards, regulations and restrictions with all the Consultant's employees,

agents or any tier of sub-consultant granted access in the performance of this Agreement, and shall be granted and authorize only such access as may be necessary for the purpose of fulfilling the requirements of the Agreement.

B. Data Confidentiality. All data, regardless of form, including originals, images and reproductions, prepared by, obtained by or transmitted to the Consultant in connection with this Agreement is confidential, proprietary information owned by the City. Except as specifically provided in this Agreement, the Consultant shall not disclose data generated in the performance of the service to any third person without the prior, written consent of the City Manager or authorized designee.

C. Data Security. Personal identifying information, financial account information, or restricted City information, whether electronic format or hard copy, must be secured and protected at all times to avoid unauthorized access. At a minimum, the Consultant must encrypt and/or password-protect electronic files. This includes data saved to laptop computers, computerized devices or removable storage devices. When personal identifying information, financial account information, or restricted City information, regardless of its format, is no longer necessary, the information must be redacted or destroyed through appropriate and secure methods that ensure the information cannot be viewed, accessed or reconstructed.

E. Compromised Security. In the event that data collected or obtained by the Consultant in connection with this Agreement is believed to have been compromised, the Consultant shall notify the City Manager, or authorized designee, immediately. The Consultant agrees to reimburse the City for any costs incurred by the City to investigate potential breaches of this data and, where applicable, the cost of notifying individuals who may be impacted by the breach.

F. Permitted Access. The Consultant's employees, agents and sub-consultants must receive prior, written approval from the City before being granted access to the City's information technology infrastructure and data and the City, in its sole determination, shall determine accessibility and limitations thereto. The Consultant agrees that the requirements of this Section shall be incorporated into all sub-consultant/subconsultant agreements entered into by the Consultant. It is further agreed that a violation of this Section shall be deemed to cause irreparable harm that justifies injunctive relief in court. A violation of this Section may result in immediate termination of this Agreement without notice.

G. Survival. The obligations of the Consultant under this Section shall survive the termination of this Agreement.

14.17 Records and Audit Rights. The Consultant's and its sub-consultant's books, records, correspondence, accounting procedures and practices, and any other supporting evidence relating to this Agreement, including the papers of any consultant and its sub-consultants' employees who perform any work or Services pursuant to this Agreement to ensure that the Consultant and its sub-consultants are complying with the warranty under subsection 14.18 below (all the foregoing hereinafter referred to as "Records"), shall be open to inspection and subject to audit and/or reproduction during normal working hours by the City, to the extent necessary to adequately permit (A) evaluation and verification of any invoices, payments or claims based on the Consultant's and its sub-consultants' actual costs (including direct and indirect costs and overhead allocations) incurred, or units expended directly in the performance of work under this Agreement and (B) evaluation of the Consultant's and its sub-consultants' compliance with the Arizona employer sanctions laws referenced in subsection 14.18 below. To the extent necessary

for the City to audit Records as set forth in this subsection, the Consultant and its sub-consultants hereby waive any rights to keep such Records confidential. For the purpose of evaluating or verifying such actual or claimed costs or units expended, the City shall have access to said Records, even if located at its sub-consultants' facilities, from the effective date of this Agreement for the duration of the work and until three years after the date of final payment by the City to the Consultant pursuant to this Agreement. The Consultant and its sub-consultants shall provide the City with adequate and appropriate workspace so that the City can conduct audits in compliance with the provisions of this subsection. The City shall give the Consultant or its sub-consultants reasonable advance notice of intended audits. The Consultant shall require its sub-consultants to comply with the provisions of this subsection by insertion of the requirements hereof in any subcontract pursuant to this Agreement.

14.18 E-verify Requirements. To the extent applicable under Ariz. Rev. Stat. §41-4401, the Consultant and its sub-consultants warrant compliance with all federal immigration laws and regulations that relate to their employees and compliance with the E-verify requirements under Ariz. Rev. Stat. §23-214(A). The Consultant's or its sub-consultants' failure to comply with such warranty shall be deemed a material breach of this Agreement and may result in the termination of this Agreement by the City.

14.19 Conflicting Terms. In the event of any inconsistency, conflict or ambiguity among the terms of the Agreement, the Scope of Work, the Fee Proposal, the RFP and the Consultant's Proposal, the documents shall govern in the order listed herein.

14.20 Non-Exclusive Contract. This Agreement is entered into with the understanding and agreement that it is for the sole convenience of the City. The City reserves the right to obtain like goods and services from another source when necessary.

14.21 Compliance with Federal Immigration Laws and Regulations. Consultant warrants that it complies with all Federal Immigration laws and regulations that relate to its employees and complies with A.R.S. § 23-214.A. Consultant acknowledges that pursuant to A.R.S. § 41-4401 and effective September 30, 2008, a breach of this warranty is a material breach of this contract subject to penalties up to and including termination of this contract, and that the City retains the legal right to inspect the papers of any employee who works on the contract to ensure compliance with this warranty.

14.22 Israel. Pursuant to Arizona Revised Statute § 35-393.01, Consultant certifies that it is not currently engaged in, and agrees for the duration of the Contract to not engage in, a boycott of Israel.

14. 23 Cooperative Purchasing. Specific eligible political subdivisions and nonprofit educational or public health institutions ("Eligible Procurement Unit(s) ") are permitted to utilize procurement agreements developed by the City, at their discretion and with the agreement of the awarded Consultant. Consultant may, at its sole discretion, accept orders from Eligible Procurement Unit(s) for the purchase of the Materials and/or Services at the prices and under the terms and conditions of this Agreement, in such quantities and configurations as may be agreed upon between the parties. All Cooperative procurements under this Agreement shall be transacted solely between the requesting of the Eligible Procurement Unit. The exercise of any rights, responsibilities or remedies by Eligible Procurement Unit shall be the exclusive obligation of such unit. The City assumes no responsibility for payment, performance or any liability or obligation associated with any cooperative procurement under this Agreement. The City shall not be responsible for any disputes arising out of transactions made by others.

SIGNATURE PAGE TO FOLLOW:

THEREFORE, the City of Buckeye by its City Mayor has hereunto subscribed his name on this date: _____.

CITY

THE CITY OF BUCKEYE, ARIZONA
an Arizona Municipal corporation

By: _____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda Aja, City Clerk

RECOMMENDED:

_____
Christopher A. Williams, Manager
Construction & Contracting Division

APPROVED AS TO FORM:

_____
City Attorney

Vendor:
National Demographics, Inc.

By:_____
Name

President
Title

EXHIBIT A

TO

PROFESSIONAL SERVICES AGREEMENT

BETWEEN

THE CITY OF BUCKEYE

AND

NATIONAL DEMOGRAPHICS INC.

[RFP]

See following pages.

CITY OF BUCKEYE

Request for Proposals
RFP No. 2021028

REDISTRICTING SERVICES

CONTACT PERSON
Tyra R. Bell, Purchasing Agent
Construction & Contracting Division
tbell@buckeyeaz.gov
(623) 349-6171

SCHEDULE OF EVENTS

Date Issued:	Thursday, April 15, 2021
Pre Proposal Meeting:	Not Applicable for this Solicitation
Last Day for Questions:	Thursday, April 29, 2021 by 5:00 PM
Due Date & Time:	Tuesday, May 18, 2021 at 4:00 PM

PLEASE NOTE: IF RFP DOCUMENTS WERE DOWNLOADED FROM THE CITY OF BUCKEYE WEBSITE, PROPOSER IS RESPONSIBLE FOR OBTAINING ANY AMENDMENTS EITHER THROUGH UPDATES ON THE WEBSITE, OR BY CONTACTING THE CITY CONTACT PERSON.

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RFP NO. 2021028

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EXHIBIT A: Professional Service Agreement

SECTION I: GENERAL INFORMATION

The City of Buckeye (the "City") is issuing this Request for Proposals (this "RFP") from qualified consulting firms ("Vendors") interested in providing professional services to assist the City in the redistricting process by preparing plans for district boundaries that the City Council can consider before final adoption of modified district boundaries. The City is seeking a Vendor with relevant experience in developing legislative districts evidenced through:

A) Sources and analysis of population and demographic data.

B) Knowledge of city, state, and federal statutes and court decisions relative to legislative district boundaries and representation.

C) Graphics and reporting capabilities able to portray alternative redistricting proposals clearly and concisely

D) Provide online tools that empowers the public and Council members to virtually interact in the process and provide recommendations.

As more particularly described in the Scope of Work attached to the sample Professional Services Agreement as Exhibit C (the "Services"), and incorporated herein by reference. In accordance with the City's Procurement Code, the City will accept sealed proposals ("Proposals") for the Services.

Proposals are to be addressed and delivered to the **Buckeye City Hall, Attn: Tyra Bell at 530 East Monroe Avenue, Buckeye, Arizona, 85326 on or before 4:00 P.M., Local Buckeye, Arizona Time, May 18, 2021** at which time a representative of the City will announce publicly the names of those firms or individuals submitting proposals. No other public disclosure will be made until after award of the contract.

END SECTION I

SECTION II: **PURPOSE OF THE RFP**

1. BACKGROUND

The City's geographic area consists of approximately 600 square miles. The City of Buckeye currently elects six City Council members and a mayor at large. In May 2005, the voters of the City of Buckeye authorized the City Council to proceed with the formation of districts from which the six Council member seats are filled. Current district maps and descriptions are attached as a portion of Exhibit A of the sample Professional Services Agreement.

2. METHOD OF SELECTION

The intent of the City is to select one Vendor whose proposal is determined to be the most advantageous to the City based on the evaluation factors set forth in this Request for Proposals. The successful Vendor will have demonstrated exceptional qualifications.

3. REQUEST FOR PROPOSALS

The City will conduct a prequalification screening of all submitted proposals by a designated selection team. The prequalification screening process will identify those firms who, in the City's sole discretion, best meet the City's needs. **Section V** details the Criteria used for evaluations of submittals. The City reserves the right to reject any or all submissions.

4. NEGOTIATIONS

After a ranking of submittals, the City will offer the highest ranked firm a thirty (30) day exclusive negotiation period. In the event that there is an impasse in the negotiations, or the City negotiators determine that a contract cannot be achieved, the City reserves the right to go to the next highest ranked firm. This process may continue through those firms on the final list until a contract is successfully negotiated. The City reserves the right to reject all proposals at any time, or to cease negotiations over a contract at any time.

END OF SECTION II

SECTION III: INSTRUCTIONS TO PROPOSERS

1. You must address and deliver your proposal to City of Buckeye, Attn: Tyra Bell, 530 E. Monroe Avenue, Buckeye, Arizona 85326, on or before the time and date set for closing.

Proposals should be in a sealed envelope marked:

Name of Proposer: _____
Title of Proposal: **Redistricting Services**
RFP Number: **RFP No. 2021028**
Due Date and Time: **MAY 18, 2021 4:00 P.M., Local Time Buckeye, Arizona**

No telephone, electronic or facsimile proposals will be considered. Proposals received after the time and date for closing will be returned to the proposer unopened.

2. Interested Vendor must submit a one-page cover letter and **one (1) original, clearly marked original** and **one (1) copy, clearly marked copy (two (2) total submittals)** of the Proposal. In addition, interested parties must submit **one (1) original copy** of the Proposal on a flash drive in PDF format. Failure to adhere to the submittal quantity criteria may result in the Proposal being considered non-responsive.

3. You may withdraw your proposal at any time prior to the time and date set for closing. Proposals withdrawn after opening but prior to award, may be withdrawn in accordance with the City of Buckeye Procurement Code.

4. No department or office at the City has the authority to solicit or receive official proposals other than the City Construction and Contracting Division. All solicitation is performed under the direct supervision of the Manager of Construction & Contracting, City of Buckeye and in complete accordance with City of Buckeye Procurement Code.

5. The City reserves the right to conduct discussions with proposers, to accept revisions of proposals, and to negotiate price changes. During this discussion period, the City will not disclose any information derived from proposals submitted, or from discussions with other proposers. Once an award is made, the solicitation file, and the proposals contained therein, are in the public record and will be disclosed upon request.

6. The award shall be made to the responsible proposer whose proposal is determined to be the most advantageous to the City based on the evaluation factors set forth in this Request for Proposals. Price, although a consideration, will not be the sole determining factor. No purchase order is issued with a proposer until a price is successfully negotiated and is approved by the City, as authorized by the City Council.

7. If you are submitting any information you consider to be proprietary, you must place it in a separate envelope and mark it "Proprietary Information". If the Construction & Procurement Manager concurs, this information will not be considered public information. The City Manager is the final authority as to the extent of material, which is considered proprietary or confidential. Pricing information cannot be considered proprietary.

8. Your proposal should be submitted in the format shown in **Section VI.** Proposals in any other format will be considered informal and may be rejected. Conditional proposals will not be considered. An individual authorized to extend a formal proposal must sign all proposals. Proposals that are not signed may be rejected.

9. The City reserves the right to reject any or all proposals or any part thereof, or to accept any proposal, or any part thereof, or to withhold the award and to waive or decline to waive irregularities in any proposal when it determines that it is in its best interest to do so. The City also reserves the right to hold all proposals for a period of 60 days after the opening date.

10. Definitions

"May": Indicates something that is not mandatory but permissible/desirable.

"Shall," "Must," "Will": Indicates mandatory requirement. Failure to meet these mandatory requirements will result in rejection of your proposal as nonresponsive.

"Should": Indicates something that is recommended but not mandatory. If the proposer fails to provide recommended information, the City may, at its sole option, ask the proposer to provide the information or evaluate the proposal without the information.

11. Any person, firm, corporation or association submitting a proposal shall be deemed to have read and understood all the terms, conditions, and requirements in the specifications/scope of work.

12. All responses and accompanying documentation will become the property of the City at the time the proposals are opened.

13. All formal inquiries or requests for significant or material clarification or interpretation, or notification to the City of errors or omissions relating to this Request for Proposals must be directed in writing to:

Tyra Bell, Purchasing Agent
Construction & Contracting Division
City of Buckeye
530 E. Monroe Ave. Buckeye, Arizona 85326
Tel: 623-349-6171
Email: tbell@buckeyeaz.gov

Requests must be submitted on a copy of the Proposer Inquiry Form included in **Section VIII** of this Request for Proposals. All formal inquiries must be submitted no later than **April 29, 2021 at 5:00 p.m. Local Time Buckeye, Arizona.** Failure to submit inquiries by this deadline may result in the inquiry not being answered. Note that the City will answer informal questions orally. The City makes no warranty of any kind as to the correctness of any oral answers and uses this process solely to provide minor clarifications rapidly. Oral statements or instructions shall not constitute an amendment to this Request for Proposals. Proposers shall not rely on any verbal responses from the City. If you have formal questions about any part of this Request for Proposals, which could result in a material issue or a formal amendment to this Request for Proposals, submit your questions on a Proposer Inquiry Form from **Section VIII** of this

Request for Proposals.

14. The City shall not reimburse any proposer the cost of responding to a Request for Proposals.

15. The City believes that it can best maintain its reputation for treating service providers and suppliers in a fair, honest, and consistent manner by conducting solicitations in good faith and by granting competitors an equal opportunity to win an award. If you feel that we have fallen short of these goals, you may submit a protest pursuant to the Procurement Code of the City of Buckeye.

END OF SECTION III

SECTION IV: SPECIFICATIONS/SCOPE OF WORK

1.1 Project Description

The City of Buckeye (the "City") is issuing this Request for Proposals (this "RFP") from qualified consulting firms ("Vendors") interested in providing professional services to assist the City in the redistricting process by preparing plans for district boundaries that the City Council can consider before making a decision. The City is seeking a Vendor with relevant experience in developing legislative districts evidenced through: A) sources and analysis of population and demographic data; B) knowledge of city, state, and federal statutes and court decisions relative to legislative district boundaries and representation; and C) graphics and reporting capabilities able to portray alternative redistricting proposals clearly and concisely, and D) virtual scenarios for the public and Council to visualize, as more particularly described in the Scope of Work attached to the sample Professional Services Agreement as Exhibit A (the "Services"), and incorporated herein by reference. In accordance with the City's Procurement Code, the City will accept sealed proposals ("Proposals") for the Services.

1.2 Objective

The City is seeking a consultant to prepare and present alternative plans for restructuring the six (6) electoral districts for City Council member seats.

END OF SECTION IV

SECTION V: EVALUATIONS

MINIMUM QUALIFICATIONS

In order to be considered for evaluation, Vendor shall meet the following minimum qualifications:

1. Proposal submitted on or before the RFP closing date.
2. Proposal is in the format requested below.
3. Contractor is licensed to do business in the State of Arizona. Provide licensure information with your proposal.
4. Contractor has been in business for a minimum of five (5) years concurrently.

EVALUATION CRITERIA

In accordance with the City's Procurement Code, awards shall be made to the responsible Contractor whose Proposal is determined in writing to be the most advantageous to the City, based upon the evaluation criteria listed below.

1. General Information (10 points)
2. Experience and Qualifications of the Vendor (20 points)
3. Key Positions (20 points)
4. Project Approach (30 points)
5. Visual Tools (10 points)
6. Pricing (10 points)

Total points possible = 100

EVALUATION OF PROPOSALS

A team of employees and management professionals will evaluate the proposals. The written proposals will be reviewed based on the evaluation criteria provided above.

END OF SECTION V

SECTION VI: **FORM OF PROPOSAL / SPECIAL INSTRUCTIONS**

To facilitate direct comparisons, your proposal shall be submitted in the following format, listed in order, and index tabbed to match. Your proposal shall include, at a minimum, information requested below. If proposer fails to provide any of the requested information, with the exception of the mandatory proposal certification, the City may, at its' sole option, ask the proposer to provide the missing information or evaluate the proposal without the missing information.

A. **SUBMITTAL AND REVIEW**

One (1) original, clearly marked original and **one (1) copy, clearly marked copy (two (2) total submittals)** of the Proposal. In addition, interested parties must submit **one (1) original copy** of the Proposal on a flash drive in PDF format. Please note that these materials will not be returned.

3. The Arizona Public Records Act limits the City's ability to withhold prequalification and bid data. If a submittal contains any trade secrets that a submitter does not want disclosed to the public or used by the City for any purpose other than evaluation of the submitter's eligibility, each sheet of such information must be marked with the designation "Confidential." The City agrees that if a Public Records request is made for disclosure of data so classified, it will notify the submitter of such data so that the submitter will have an opportunity to legally challenge the City's obligation to disclose such information.

B. REQUEST FOR PROPOSALS CONTENTS

The Proposal shall contain, at a minimum, the following information in the following order:

Section 1: General Information

A. One page cover letter as described in Section III above.

B. Explain the legal organization of the Vendor. Provide identification information of the vendor. Include the legal name, address, identification number and legal form of the Vendor (e.g., partnership, cooperation, joint venture, sole proprietorship). If a joint venture, identify the members of the joint venture and provide all of the information required under this Section for each member. If the Vendor is a wholly owned subsidiary of another company, identify the parent company. Provide the name, address and telephone number of the person to contact concerning the Proposal.

C. Identify the location of the Vendor's principle office and the local work office, if different.

D. Provide a general description of the Vendor that is proposing to provide the Services, including number of years in business.

E. Identify any contract or subcontract held by the Vendor or officers of the Vendor that have been terminated within the last five years. Briefly describe the circumstances and the outcome.

F. Identify any claims against Vendor arising from a contract, which resulted in litigation or arbitration within the last five years. Briefly describe the circumstances and the outcome.

G. Vendor Information Form (may be attached as separate appendix).

Section 2: Experience and Qualification of the Vendor

A. Provide a detailed description of the Vendor's experience in providing similar services to municipalities or other entities of a similar size to the City specifically explaining experience that demonstrates the firm's capability to successfully furnish the services and perform the requirements necessary to provide administration of the program.

B. Provide a list of <u>at least three</u> organizations of a similar size or similar operation to the City for which redistricting services have been performed within the last ten (10) years. This list shall include, at a minimum, the following:

   a. Name of company or organization
   b. Contact name
   c. Contact address, telephone number and e-mail address
   d. Type of services provided

   The above information must be current, as this will be used to verify references. Inability of the City to verify references shall result in the Proposal being considered nonresponsive.

Section 3: Key Positions

A. Identify each key personnel member that will render services to the City including title and relevant experience required, including the proposed Project Manager.

B. Indicate the roles and responsibilities of each key position. Include senior members of the Vendor only from the perspective of what their role will be in providing services to the City. Identify key staff responsible for day-to-day operations regarding the Agreement oversight and management personnel, and the location of the facility from which the Vendor would operate.

C. If a subcontractor will be used for all work of a certain type, include information on this subcontractor. A detailed plan for providing supervision must be included.

D. Attach a resume and evidence of certification, if any, for each personnel member and/or subcontractor to be involved in this project. Resumes should be attached together as a single appendix at the end of the Proposal and will not count toward the Proposal page limit.

Section 4: Project Approach

A. Describe the Vendor's methodology with respect to performing the required Services in the Scope of Work describe in this RFP and the Professional Services Agreement in Exhibit A and its approach to verification/validation of accuracy of population and demographic data.

B. Discuss technical approach with respect to preparation of boundaries and plan to subject such plans for restudy.

C. Include all program requirements and the proposed tasks, services, activities, etc. necessary to accomplish the scope of the program. At minimum, respond to each item listed in the technical requirements set forth in the Scope of Work on a point-by-point basis. The information submitted according to this Section 4 shall contain sufficient detail to convey the Vendor's knowledge of the subjects and skills necessary to successfully perform the services.

D. Describe any alternate approaches if it is believed that such an approach would suit the needs of the City. Include rationale for alternate approaches, and indicate how the Vendor will ensure that all efforts are coordinated with the City's requirements.

Section 5: Visual Tools

A. Provide Visual Tools and mapping that empowers the public and Council members to draw their own proposal.

Section 6: Pricing

A. Vendor shall submit the same number of copies of the Fee Proposal as described in Section III in a separate sealed envelope enclosed with the Vendor's Proposal with the signature of the representative of the Vendor who is authorized to make such an offer. The Fee Proposal shall be attached as Exhibit D of the Professional Services Agreement.

END OF SECTION VI

SECTION VII: SUBMITTAL PROPOSAL FORM

RFP 2021028: Redistricting Services

Company Name _____

Authorized Representative:_____

Title:_____

Address: _____

Phone Number:_____ Email Address:_____

Fax Number:_____ Website Address:_____

The undersigned proposer declares to have read and fully understand the Request for Proposals and agrees to all of the terms, conditions, and provisions contained therein; and proposes and agrees that if this proposal is submitted and accepted, vendor will contract to perform in accordance with the Scope of Work and Proposal.

Signature of Authorized Representative:_____

Date:_____

END OF SECTION VII

SECTION VIII: PROPOSER INQUIRY FORM
(Use for Pre-Proposal Questions, General Clarifications, etc.)
PROJECT NAME: Redistricting Services
PROPOSAL NUMBER: RFP No. 2021028

INQUIRY DEADLINE: 5:00 P.M., Local Time Buckeye, Arizona, April 29, 2021.

QUESTIONS ON (Check One): ___ ORIGINAL PROPOSAL ___ AMENDMENT NO.
SECTION NUMBER:

QUESTIONER:
_____
FAX NO._____PHONE NO._____

COMPANY: _____

EMAIL: _____

DATE:

QUESTIONS:
_____
_____
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END OF SECTION VIII

SECTION IX: FEE PROPOSAL

1. Rates for Services. Provide a list of all tasks for all services

2. Extra or Incidental Costs. Provide any and all extra or incidental costs that may be associated with the contract. This category includes reimbursable and/or subcontracted costs.

3. Travel and Per Diem. Provide rates for travel and per diem. Travel and per diem rates should not exceed the current applicable guidelines for Federal and/or State rates entities for Travel.

	Item No	Description	Cost	
*	1	Meet with City Council to identify their issues.	$	Per meeting day
	2	Developing the criteria and adopting the redistricting process	$	
	3	Data Collection (and database construction)	$	
*	4	Conduct Community and other group meetings	$	Per meeting day
	5	Prepare the redistricting option maps	$	
		a. Map overlay		
		b. map depicting racial/ethnic composition		
		c. table depicting voting information		
*	6	Present all viable option maps	$	Per meeting day
	7	Present the redistricting option maps to the City Council		
	8	Review recommendations for revisions and modify approved changes	$	
*	9	Presentation to the City Council	$	Per meeting day
*	10	Present the accepted redistricting option maps at public hearings	$	Per meeting day
	11	Submittal of redistricting map approved by the City Council	$	
	12	Extra or Incidental costs	$	
	13	Travel and Per Diem	$	
		(assuming 1 meeting per * Item) Subtotal:		
		Tax Rate _____% Taxes:		
		Total:		
		Alternative Total with 3 or more public hearings:		
	Alternative	Public Participation Kit (paper & Excel version)	$	
	Alternative	Online Redistricting Software	$	
	Alternative	Online interactive project maps atlas	$	
	Alternative	Translation of projects materials	$	
	Alternative	Media Briefing	$	Per meeting day
	Alternative	Latino-focused outreach meeting	$	Per meeting day
	Alternative	Additional “from scratch” plan development	$	Per plan

END OF SECTION IX

SECTION X: PROPOSAL CERTIFICATION/CONFLICT OF INTEREST CERTIFICATION

City of Buckeye
Construction & Contracting Division
530 Monroe Avenue
Buckeye, Arizona 85326

The undersigned certifies that to the best of his/her knowledge: (**check only one**)

( ) There is no officer or employee of City of Buckeye who has, or whose relative has, a substantial interest in any contract resulting from this request.

( ) The names of any and all public officers or employees of City of Buckeye who have, or whose relative has, a substantial interest in any contract resulting from this request, and the nature of the substantial interest, are included below or as an attachment to this certification. In compliance with **Request for Proposal No. 2021028**, for **Redistricting Services** in the City of Buckeye and after carefully reviewing all the terms, conditions and requirements contained therein, the undersigned agrees to furnish such good/services in accordance with the specifications/scope of work.

AMENDMENTS: Receipt of the following Amendments is acknowledged, and the provisions are included in this RFP:

Amendment No._____ **Dated**_____
Amendment No._____ **Dated**_____
Amendment No._____ **Dated**_____
Amendment No._____ **Dated**_____

Firm Name: _____

Address: _____

City: _____, **State:** _____ **Zip:** _____

_____
(Signature Required)

_____
(Print name) (Fax#)

_____
(Print title) (Federal Taxpayer ID Number)

_____
(Date)

END OF SECTION X

EXHIBIT A
TO
RFP No. Redistricting Services

[Professional Services Agreement]

See following Pages

PROFESSIONAL SERVICES AGREEMENT
BETWEEN
THE CITY OF BUCKEYE
AND
VENDOR NAME
CONTRACT No xxxxxxxx

THIS PROFESSIONAL SERVICES AGREEMENT (this "Agreement") is entered into by and between the City of Buckeye, an Arizona municipal corporation (the "City") and Vendor Name. (the "Consultant").

RECITALS

The City of Buckeye, Arizona, is authorized and empowered by the City Code to execute contracts for professional services.

The Consultant submitted a proposal (the "Proposal"), attached hereto as Exhibit A and incorporated herein by reference, and the City desires to enter into an Agreement with the Consultant (the "Services").

AGREEMENT

NOW, THEREFORE, in consideration of the foregoing recitals, which are incorporated herein by reference, the following mutual covenants and conditions, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the City and the Consultant hereby agree as follows:

1. Term of Agreement. This Agreement shall be effective as of the date fully executed by the City and shall remain in full force and effect for one (1) year or until such time as the Scope of Services is completed and approved by the City, or unless terminated as otherwise provided pursuant to the terms and conditions of this Agreement.

2. Scope of Work. The Consultant shall provide the Services as set forth in the Proposal, attached hereto as Exhibit A and incorporated herein by reference.

3. Compensation. The City shall pay Consultant a total amount not to exceed **($XXX,XXX.XX)** at the rates as set forth in the Proposal, attached hereto as Exhibit A and incorporated herein by reference.

4. Payments. The City shall pay the Consultant monthly, based upon work performed and completed to date, and upon submission and approval of invoices. All invoices shall document and itemize all work completed to date. The invoice statement shall include a record of time expended and work performed in sufficient detail to justify payment.

5. Documents. All documents prepared and submitted to the City pursuant to this Agreement shall be the property of the City.

6. Consultant Personnel. The Consultant shall provide adequate, experienced personnel, capable of and devoted to the successful completion of the Services to be performed under this Agreement. The Consultant agrees to assign specific individuals to key positions. The Consultant agrees that, upon commencement of the Services to be performed under this Agreement, key personnel shall not be removed or replaced without prior written notice to the City. If key personnel are not available to perform

the Services for a continuous period exceeding 30 calendar days, or are expected to devote substantially less effort to the Services than initially anticipated, The Consultant shall immediately notify the City of same and shall, subject to the concurrence of the City, replace such personnel with personnel of substantially equal ability and qualifications.

7. Inspection; Acceptance. All work shall be subject to inspection and acceptance by the City at reasonable times during the Consultant's performance. The Consultant shall provide and maintain a self-inspection system that is acceptable to the City.

8. Licenses; Materials. The Consultant shall maintain in current status all federal, state and local licenses and permits required for the operation of the business conducted by the Consultant. The City has no obligation to provide the Consultant, its employees or sub-consultants any business registrations or licenses required to perform the specific services set forth in this Agreement. The City has no obligation to provide tools, equipment or material to the Consultant.

9. Performance Warranty. The Consultant warrants that the Services rendered will conform to the requirements of this Agreement and to the highest professional standards in the field.

10. Indemnification. To the fullest extent permitted by law, the Consultant shall indemnify, defend and hold harmless the City and each council member, officer, employee or agent thereof (the City and any such person being herein called an "Indemnified Party"), for, from and against any and all losses, claims, damages, liabilities, costs and expenses (including, but not limited to, reasonable attorneys' fees, court costs and the costs of appellate proceedings) to which any such Indemnified Party may become subject, under any theory of liability whatsoever ("Claims"), insofar as such Claims (or actions in respect thereof) relate to, arise out of, or are caused by or based upon the negligent acts, intentional misconduct, errors, mistakes or omissions, in connection with the work or services of the Consultant, its officers, employees, agents, or any tier of sub-consultant in the performance of this Agreement. The amount and type of insurance coverage requirements set forth below will in no way be construed as limiting the scope of the indemnity in this Section.

11. Insurance.

11.1 General.

A. Insurer Qualifications. Without limiting any obligations or liabilities of the Consultant, the Consultant shall purchase and maintain, at its own expense, hereinafter stipulated minimum insurance with insurance companies duly licensed by the State of Arizona with an AM Best, Inc. rating of A- or above with policies and forms satisfactory to the City. Failure to maintain insurance as specified herein may result in termination of this Agreement at the City's option.

B. No Representation of Coverage Adequacy. By requiring insurance herein, the City does not represent that coverage and limits will be adequate to protect the Consultant. The City reserves the right to review any and all of the insurance policies and/or endorsements cited in this Agreement but has no obligation to do so. Failure to demand such evidence of full compliance with the insurance requirements set forth in this Agreement or failure to identify any insurance deficiency shall not relieve the Consultant

from, nor be construed or deemed a waiver of, its obligation to maintain the required insurance at all times during the performance of this Agreement.

C. Additional Insured. All insurance coverage and self-insured retention or deductible portions, except Workers' Compensation insurance and Professional Liability insurance, if applicable, shall name, to the fullest extent permitted by law for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, directors, officials and employees as Additional Insured as specified under the respective coverage Parts of this Agreement.

D. Coverage Term. All insurance required herein shall be maintained in full force and effect until all work or services required to be performed under the terms of this Agreement are satisfactorily performed, completed and formally accepted by the City, unless specified otherwise in this Agreement.

E. Primary Insurance. The Consultant's insurance shall be primary insurance with respect to performance of this Agreement and in the protection of the City as an Additional Insured.

F. Waiver. All policies, except for Professional Liability, including Workers' Compensation insurance, shall contain a waiver of rights of recovery (subrogation) against the City, its agents, representatives, officials, officers and employees for any claims arising out of the work or services of the Consultant. The Consultant shall arrange to have such subrogation waivers incorporated into each policy via formal written endorsement thereto.

G. Policy Deductibles and/or Self-Insured Retentions. The policies set forth in these requirements may provide coverage that contains deductibles or self-insured retention amounts. Such deductibles or self-insured retention shall not be applicable with respect to the policy limits provided to the City. The Consultant shall be solely responsible for any such deductible or self-insured retention amount.

H. Use of Sub-consultants. If any work under this Agreement is subcontracted in any way, the Consultant shall execute written agreements with its sub-consultants containing the indemnification provisions set forth in this Section and insurance requirements set forth herein protecting the City and the Consultant. The Consultant shall be responsible for executing any agreements with its sub-consultants and obtaining certificates of insurance verifying the insurance requirements.

I. Evidence of Insurance. Prior to commencing any work or services under this Agreement, the Consultant will provide the City with suitable evidence of insurance in the form of certificates of insurance and a copy of the declaration page(s) of the insurance policies as required by this Agreement, issued by the Consultant's insurance insurer(s) as evidence that policies are placed with acceptable insurers as specified herein and provide the required coverages, conditions and limits of coverage specified in this Agreement and that such coverage and provisions are in full force and effect. Confidential information such as the policy premium may be redacted from the declaration page(s) of each insurance policy, provided that such redactions do not alter any of the information required by this Agreement. The City shall reasonably rely upon the certificates of insurance and declaration page(s) of the insurance policies as evidence of coverage but such acceptance and reliance shall not waive or alter in any way the insurance requirements or obligations of this Agreement. In the event any insurance policy required by this Agreement is written on a "claims made" basis, coverage shall extend for two years past completion of the Services and the City's acceptance of the Consultant's work or services and as evidenced by annual

certificates of insurance. If any of the policies required by this Agreement expire during the life of this Agreement, it shall be the Consultant's responsibility to forward renewal certificates and declaration page(s) to the City 30 days prior to the expiration date. All certificates of insurance and declarations required by this Agreement shall be identified by referencing the RFP number and title of this Agreement. A $25.00 administrative fee shall be assessed for all certificates or declarations received without the appropriate RFP number and title or a reference to this Agreement, as applicable. Additionally, certificates of insurance and declaration page(s) of the insurance policies submitted without referencing the appropriate RFP number and title or reference to this Agreement, as applicable, will be subject to rejection and may be returned or discarded. Certificates of insurance and declaration page(s) shall specifically include the following provisions:

(1) The City, its agents, representatives, officers, directors, officials and employees are Additional Insureds as follows:

(a) Commercial General Liability - Under Insurance Services Office, Inc., ("ISO") Form CG 20 10 03 97 or equivalent.

(b) Auto Liability - Under ISO Form CA 20 48 or equivalent.

(c) Excess Liability - Follow Form to underlying insurance.

(2) The Consultant's insurance shall be primary insurance as respects performance of the Agreement.

(3) All policies, except for Professional Liability, including Workers' Compensation, waive rights of recovery (subrogation) against the City, its agents, representatives, officers, officials and employees for any claims arising out of work or services performed by the Consultant under this Agreement.

(4) A 30-day advance notice cancellation provision. If ACORD certificate of insurance form is used, the phrases in the cancellation provision "endeavor to" and "but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives" shall be deleted. Certificate forms other than ACORD form shall have similar restrictive language deleted.

11.2 Required Insurance Coverage.

A. Commercial General Liability. The Consultant shall maintain "occurrence" form Commercial General Liability insurance with an unimpaired limit of not less than $1,000,000 for each occurrence, $2,000,000 Products and Completed Operations Annual Aggregate and a $2,000,000 General Aggregate Limit. The policy shall cover liability arising from premises, operations, independent consultants, products-completed operations, personal injury and advertising injury. Coverage under the policy will be at least as broad as ISO policy form CG 00 010 93 or equivalent thereof, including but not limited to, separation of insured's clause. To the fullest extent allowed by law, for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, officials and employees shall be cited as an Additional Insured under ISO, Commercial General Liability Additional Insured Endorsement

form CG 20 10 03 97, or equivalent, which shall read "Who is an Insured (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of "your work" for that insured by or for you." If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.

B. Vehicle Liability. The Consultant shall maintain Business Automobile Liability insurance with a limit of $1,000,000 each occurrence on the Consultant's owned, hired and non-owned vehicles assigned to or used in the performance of the Consultant's work or services under this Agreement. Coverage will be at least as broad as ISO coverage code "1" "any auto" policy form CA 00 01 12 93 or equivalent thereof. To the fullest extent allowed by law, for claims arising out of the performance of this Agreement, the City, its agents, representatives, officers, directors, officials and employees shall be cited as an Additional Insured under ISO Business Auto policy Designated Insured Endorsement form CA 20 48 or equivalent. If any Excess insurance is utilized to fulfill the requirements of this subsection, such Excess insurance shall be "follow form" equal or broader in coverage scope than underlying insurance.

C. Professional Liability. If this Agreement is the subject of any professional services or work, or if the Consultant engages in any professional services or work adjunct or residual to performing the work under this Agreement, the Consultant shall maintain Professional Liability insurance covering negligent errors and omissions arising out of the Services performed by the Consultant, or anyone employed by the Consultant, or anyone for whose negligent acts, mistakes, errors and omissions the Consultant is legally liable, with an unimpaired liability insurance limit of $1,000,000 each claim and $2,000,000 annual aggregate. In the event the Professional Liability insurance policy is written on a "claims made" basis, coverage shall extend for two years past completion and acceptance of the Services, and the Consultant shall be required to submit certificates of insurance and a copy of the declaration page(s) of the insurance policies evidencing proper coverage is in effect as required above.

D. Workers' Compensation Insurance. The Consultant shall maintain Workers' Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction over the Consultant's employees engaged in the performance of work or services under this Agreement and shall also maintain Employers Liability Insurance of not less than $500,000 for each accident, $500,000 disease for each employee and $1,000,000 disease policy limit.

11.3 Cancellation and Expiration Notice. Insurance required herein shall not expire, be canceled, or materially change without 30 days' prior written notice to the City.

12. Applicable Law; Venue. In the performance of this Agreement, the Consultant shall abide by and conform to any and all laws of the United States, State of Arizona and the City of Buckeye, including but not limited to, federal and state executive orders providing for equal employment and procurement opportunities, the Federal Occupational Safety and Health Act and any other federal or state laws applicable to this Agreement. This Agreement shall be governed by the laws of the State of Arizona and suit pertaining to this Agreement may be brought only in courts in the State of Arizona.

13. Termination; Cancellation.

13.1 For City's Convenience. This Agreement is for the convenience of the City and, as such, may be terminated without cause after receipt by the Consultant of written notice by the City. Upon termination for convenience, the Consultant shall be paid for all undisputed services performed to the termination date.

13.2 For Cause. This Agreement may be terminated by either party upon 30 days' written notice should the other party fail to substantially perform in accordance with this Agreement's terms, through no fault of the party initiating the termination.

13.3 Due to Work Stoppage. This Agreement may be terminated by the City upon 30 days' written notice to the Consultant in the event that the Services are permanently abandoned. In the event of such termination due to work stoppage, payment shall be made by the City to the Consultant for the undisputed portion of its fee due as of the termination date.

13.4 Conflict of Interest. This Agreement is subject to the provisions of ARIZ. REV. STAT. § 38-511. The City may cancel this Agreement without penalty or further obligations by the City or any of its departments or agencies if any person significantly involved in initiating, negotiating, securing, drafting or creating this Agreement on behalf of the City or any of its departments or agencies is, at any time while the Agreement or any extension of the Agreement is in effect, an employee of any other party to the Agreement in any capacity or a consultant to any other party of the Agreement with respect to the subject matter of the Agreement.

13.5 Gratuities. The City may, by written notice to the Consultant, cancel this Agreement if it is found by the City that gratuities, in the form of economic opportunity, future employment, entertainment, gifts or otherwise, were offered or given by the Consultant or any agent or representative of the Consultant to any officer, agent or employee of the City for the purpose of securing this Agreement. In the event this Agreement is cancelled by the City pursuant to this provision, the City shall be entitled, in addition to any other rights and remedies, to recover or withhold from the Consultant an amount equal to 150% of the gratuity.

13.6 Agreement Subject to Appropriation. The provisions of this Agreement for payment of funds by the City shall be effective when funds are appropriated for purposes of this Agreement and are actually available for payment. The City shall be the sole judge and authority in determining the availability of funds under this Agreement and the City shall keep the Consultant fully informed as to the availability of funds for the Agreement. The obligation of the City to make any payment pursuant to this Agreement is a current expense of the City, payable exclusively from such annual appropriations, and is not a general obligation or indebtedness of the City. If the City Council fails to appropriate money sufficient to pay the amounts as set forth in this Agreement during any immediately succeeding fiscal year, this Agreement shall terminate at the end of then-current fiscal year and the City and the Consultant shall relieved of any subsequent obligation under this Agreement.

14. Miscellaneous.

14.1 Independent Contractor. The Consultant acknowledges and agrees that the Services provided under this Agreement are being provided as an independent contractor, not as an employee or agent of

the City. The Consultant, its employees and sub-consultants are not entitled to workers' compensation benefits from the City. The City does not have the authority to supervise or control the actual work of the Consultant, its employees or sub-consultants. The Consultant, and not the City, shall determine the time of its performance of the services provided under this Agreement so long as the Consultant meets the requirements of its agreed Scope of Work as set forth in Section 2 above. The Consultant is neither prohibited from entering into other contracts nor prohibited from practicing its profession elsewhere. The City and the Consultant do not intend to nor will they combine business operations under this Agreement.

14.2 Laws and Regulations. The Consultant shall keep fully informed and shall at all times during the performance of its duties under this Agreement ensure that it and any person for whom the Consultant is responsible remains in compliance with all rules, regulations, ordinances, statutes or laws affecting the Services, including the following: (A) existing and future City and County ordinances and regulations, (B) existing and future state and federal laws and (C) existing and future Occupational Safety and Health Administration ("OSHA") standards.

14.3 Amendments. This Agreement may be modified only by a written amendment signed by persons duly authorized to enter into contracts on behalf of the City and the Consultant.

14.4 Provisions Required by Law. Each and every provision of law and any clause required by law to be in the Agreement will be read and enforced as though it were included herein and, if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, the Agreement will promptly be physically amended to make such insertion or correction.

14.5 Severability. The provisions of this Agreement are severable to the extent that any provision or application held to be invalid by a Court of competent jurisdiction shall not affect any other provision or application of the Agreement which may remain in effect without the invalid provision or application.

14.6 Relationship of the Parties. It is clearly understood that each party will act in its individual capacity and not as an agent, employee, partner, joint venturer, or associate of the other. An employee or agent of one party shall not be deemed or construed to be the employee or agent of the other for any purpose whatsoever. The Consultant is advised that taxes or Social Security payments will not be withheld from any City payments issued hereunder and the Consultant agrees to be fully and solely responsible for the payment of such taxes or any other tax applicable to this Agreement.

14.7 Entire Agreement; Interpretation; Parol Evidence. This Agreement represents the entire agreement of the parties with respect to its subject matter, and all previous agreements, whether oral or written, entered into prior to this Agreement are hereby revoked and superseded by this Agreement. No representations, warranties, inducements or oral agreements have been made by any of the parties except as expressly set forth herein, or in any other contemporaneous written agreement executed for the purposes of carrying out the provisions of this Agreement. This Agreement shall be construed and interpreted according to its plain meaning, and no presumption shall be deemed to apply in favor of, or against the party drafting the Agreement. The parties acknowledge and agree that each has had the opportunity to seek and utilize legal counsel in the drafting of, review of, and entry into this Agreement.

14.8 Assignment. No right or interest in this Agreement shall be assigned by the Consultant without prior, written permission of the City signed by the City Manager and no delegation of any duty of the Consultant shall be made without prior, written permission of the City signed by the City Manager. Any attempted assignment or delegation by the Consultant in violation of this provision shall be a breach of this Agreement by the Consultant.

14.9 Subcontracts. No subcontract shall be entered into by the Consultant with any other party to furnish any of the material or services specified herein without the prior written approval of the City. The Consultant is responsible for performance under this Agreement whether or not sub-consultants are used.

14.10 Rights and Remedies. No provision in this Agreement shall be construed, expressly or by implication, as waiver by the City of any existing or future right and/or remedy available by law in the event of any claim of default or breach of this Agreement. The failure of the City to insist upon the strict performance of any term or condition of this Agreement or to exercise or delay the exercise of any right or remedy provided in this Agreement, or by law, or the City's acceptance of and payment for services, shall not release the Consultant from any responsibilities or obligations imposed by this Agreement or by law, and shall not be deemed a waiver of any right of the City to insist upon the strict performance of this Agreement.

14.11 Attorneys' Fees. In the event either party brings any action for any relief, declaratory or otherwise, arising out of this Agreement or on account of any breach or default hereof, the prevailing party shall be entitled to receive from the other party reasonable attorneys' fees and reasonable costs and expenses, determined by the court sitting without a jury, which shall be deemed to have accrued on the commencement of such action and shall be enforced whether or not such action is prosecuted through judgment.

14.12 Liens. All materials or services shall be free of all liens and, if the City requests, a formal release of all liens shall be delivered to the City.

14.13 Offset.

A. Offset for Damages. In addition to all other remedies at law or equity, the City may offset from any money due to the Consultant any amounts the Consultant owes to the City for damages resulting from breach or deficiencies in performance or breach of any obligation under this Agreement.

B. Offset for Delinquent Fees or Taxes. The City may offset from any money due to the Consultant any amounts the Consultant owes to the City for delinquent fees, transaction privilege taxes and property taxes, including any interest or penalties.

14.14 Notices and Requests. Any notice or other communication required or permitted to be given under this Agreement shall be in writing and shall be deemed to have been duly given if (A) delivered to the party at the address set forth below, (B) deposited in the U.S. Mail, registered or certified, return receipt requested, to the address set forth below, (C) given to a recognized and reputable overnight delivery service, to the address set forth below or (D) delivered by facsimile transmission to the number set forth below:

If to the City:	City of Buckeye ATTN: Chris Williams, Manager Construction & Contracting Division 530 East Monroe Avenue Buckeye, Arizona 85326 Facsimile: (623) 349-6221
With copy to:	Gust Rosenfeld, p.l.c. ATTN: Shiela B Schmidt One East Washington Street, Suite 1600 Phoenix, Arizona 85004-2553 Facsimile: (602) 254-4878
If to Consultant:	Vendor Contact Information

or at such other address, and to the attention of such other person or officer, as any party may designate in writing by notice duly given pursuant to this subsection. Notices shall be deemed received (A) when delivered to the party, (B) three business days after being placed in the U.S. Mail, properly addressed, with sufficient postage, (C) the following business day after being given to a recognized overnight delivery service, with the person giving the notice paying all required charges and instructing the delivery service to deliver on the following business day, or (D) when received by facsimile transmission during the normal business hours of the recipient. If a copy of a notice is also given to a party's counsel or other recipient, the provisions above governing the date on which a notice is deemed to have been received by a party shall mean and refer to the date on which the party, and not its counsel or other recipient to which a copy of the notice may be sent, is deemed to have received the notice.

14.15 Confidentiality of Records. The Consultant shall establish and maintain procedures and controls that are acceptable to the City for the purpose of ensuring that information contained in its records or obtained from the City or from others in carrying out its obligations under this Agreement shall not be used or disclosed by it, its agents, officers, or employees, except as required to perform the Consultant's duties under this Agreement. Persons requesting such information should be referred to the City. The Consultant also agrees that any information pertaining to individual persons shall not be divulged other than to employees or officers of the Consultant as needed for the performance of duties under this Agreement.

14.16 Information Technology.

A. Limited Access. If necessary for the fulfillment of the Agreement, the City may provide the Consultant with non-exclusive, limited access to the City's information technology infrastructure. The Consultant understands and agrees to abide by all the City policies, standards, regulations and restrictions regarding access and usage of the City's information technology infrastructure. The Consultant shall enforce all such policies, standards, regulations and restrictions with all the Consultant's employees, agents or any tier of sub-consultant granted access in the performance of this Agreement, and shall be granted and authorize only such access as may be necessary for the purpose of fulfilling the requirements of the Agreement.

B. Data Confidentiality. All data, regardless of form, including originals, images and reproductions, prepared by, obtained by or transmitted to the Consultant in connection with this Agreement is confidential, proprietary information owned by the City. Except as specifically provided in this Agreement, the Consultant shall not disclose data generated in the performance of the service to any third person without the prior, written consent of the City Manager or authorized designee.

C. Data Security. Personal identifying information, financial account information, or restricted City information, whether electronic format or hard copy, must be secured and protected at all times to avoid unauthorized access. At a minimum, the Consultant must encrypt and/or password-protect electronic files. This includes data saved to laptop computers, computerized devices or removable storage devices. When personal identifying information, financial account information, or restricted City information, regardless of its format, is no longer necessary, the information must be redacted or destroyed through appropriate and secure methods that ensure the information cannot be viewed, accessed or reconstructed.

E. Compromised Security. In the event that data collected or obtained by the Consultant in connection with this Agreement is believed to have been compromised, the Consultant shall notify the City Manager, or authorized designee, immediately. The Consultant agrees to reimburse the City for any costs incurred by the City to investigate potential breaches of this data and, where applicable, the cost of notifying individuals who may be impacted by the breach.

F. Permitted Access. The Consultant's employees, agents and sub-consultants must receive prior, written approval from the City before being granted access to the City's information technology infrastructure and data and the City, in its sole determination, shall determine accessibility and limitations thereto. The Consultant agrees that the requirements of this Section shall be incorporated into all sub-consultant/subconsultant agreements entered into by the Consultant. It is further agreed that a violation of this Section shall be deemed to cause irreparable harm that justifies injunctive relief in court. A violation of this Section may result in immediate termination of this Agreement without notice.

G. Survival. The obligations of the Consultant under this Section shall survive the termination of this Agreement.

14.17 Records and Audit Rights. The Consultant's and its sub-consultant's books, records, correspondence, accounting procedures and practices, and any other supporting evidence relating to this Agreement, including the papers of any consultant and its sub-consultants' employees who perform any work or Services pursuant to this Agreement to ensure that the Consultant and its sub-consultants are complying with the warranty under subsection 14.18 below (all the foregoing hereinafter referred to as "Records"), shall be open to inspection and subject to audit and/or reproduction during normal working hours by the City, to the extent necessary to adequately permit (A) evaluation and verification of any invoices, payments or claims based on the Consultant's and its sub-consultants' actual costs (including direct and indirect costs and overhead allocations) incurred, or units expended directly in the performance of work under this Agreement and (B) evaluation of the Consultant's and its sub-consultants' compliance with the Arizona employer sanctions laws referenced in subsection 14.18 below. To the extent necessary for the City to audit Records as set forth in this subsection, the Consultant and its sub-consultants hereby waive any rights to keep such Records confidential. For the purpose of evaluating or verifying such actual or claimed costs or units expended, the City shall have access to said Records, even if located at its sub-consultants' facilities, from the effective date of this Agreement for the duration of the work and until

three years after the date of final payment by the City to the Consultant pursuant to this Agreement. The Consultant and its sub-consultants shall provide the City with adequate and appropriate workspace so that the City can conduct audits in compliance with the provisions of this subsection. The City shall give the Consultant or its sub-consultants reasonable advance notice of intended audits. The Consultant shall require its sub-consultants to comply with the provisions of this subsection by insertion of the requirements hereof in any subcontract pursuant to this Agreement.

14.18 E-verify Requirements. To the extent applicable under Ariz. Rev. Stat. §41-4401, the Consultant and its sub-consultants warrant compliance with all federal immigration laws and regulations that relate to their employees and compliance with the E-verify requirements under Ariz. Rev. Stat. §23-214(A). The Consultant's or its sub-consultants' failure to comply with such warranty shall be deemed a material breach of this Agreement and may result in the termination of this Agreement by the City.

14.19 Conflicting Terms. In the event of any inconsistency, conflict or ambiguity among the terms of the Agreement, the Scope of Work, the Fee Proposal, the RFP and the Consultant's Proposal, the documents shall govern in the order listed herein.

14.20 Non-Exclusive Contract. This Agreement is entered into with the understanding and agreement that it is for the sole convenience of the City. The City reserves the right to obtain like goods and services from another source when necessary.

14.21 Compliance with Federal Immigration Laws and Regulations. Consultant warrants that it complies with all Federal Immigration laws and regulations that relate to its employees and complies with A.R.S. § 23-214.A. Consultant acknowledges that pursuant to A.R.S. § 41-4401 and effective September 30, 2008, a breach of this warranty is a material breach of this contract subject to penalties up to and including termination of this contract, and that the City retains the legal right to inspect the papers of any employee who works on the contract to ensure compliance with this warranty.

14.22 Israel. Pursuant to Arizona Revised Statute § 35-393.01, Consultant certifies that it is not currently engaged in, and agrees for the duration of the Contract to not engage in, a boycott of Israel.

14. 23 Cooperative Purchasing. Specific eligible political subdivisions and nonprofit educational or public health institutions ("Eligible Procurement Unit(s) ") are permitted to utilize procurement agreements developed by the City, at their discretion and with the agreement of the awarded Consultant. Consultant may, at its sole discretion, accept orders from Eligible Procurement Unit(s) for the purchase of the Materials and/or Services at the prices and under the terms and conditions of this Agreement, in such quantities and configurations as may be agreed upon between the parties. All Cooperative procurements under this Agreement shall be transacted solely between the requesting of the Eligible Procurement Unit. The exercise of any rights, responsibilities or remedies by Eligible Procurement Unit shall be the exclusive obligation of such unit. The City assumes no responsibility for payment, performance or any liability or obligation associated with any cooperative procurement under this Agreement. The City shall not be responsible for any disputes arising out of transactions made by others.

SIGNATURE PAGE TO FOLLOW:

THEREFORE, the City of Buckeye by its City Mayor has hereunto subscribed his name on this date: _____.

CITY

THE CITY OF BUCKEYE, ARIZONA
an Arizona Municipal corporation

By: _____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda Aja, City Clerk

RECOMMENDED:

_____
Christopher A. Williams, Manager
Construction & Contracting Division

APPROVED AS TO FORM:

_____
City Attorney

Vendor:
Vendor Name

By:_____
Name

_____
Title

EXHIBIT B

TO

PROFESSIONAL SERVICES AGREEMENT

BETWEEN

THE CITY OF BUCKEYE

AND

NATIONAL DEMOGRAPHICS INC.

[Consultant's Proposal]

See following pages.

A Proposal to Buckeye for Redistricting Services RFP No. 2021028

By National Demographics Corporation

Douglas Johnson, President

In partnership with Bruce Adelson of Federal Compliance Consulting

May 16, 2021

Phone: (818) 254-1221
FAX (818) 254-1221

P.O. Box 5271
Glendale, CA 91221

info@NDCresearch.com
www.NDCresearch.com

SECTION VII: SUBMITTAL PROPOSAL FORM

RFP 2021028: Redistricting Services

Company Name National Demographics Inc

Authorized Representative: Douglas Johnson

Title: President

Address: PO Box 5271, Glendale, CA 91221

Phone Number: 310 200 2058 Email Address: DJohnson@NDCresearch.com

Fax Number: 818 254 1221 Website Address: NDCresearch.com

The undersigned proposer declares to have read and fully understand the Request for Proposals and agrees to all of the terms, conditions, and provisions contained therein; and proposes and agrees that if this proposal is submitted and accepted, vendor will contract to perform in accordance with the Scope of Work and Proposal.

Signature of Authorized Representative:

Date: 5-16-2021

END OF SECTION VII

Cover Letter

May 16, 2021

Tyra R. Bell, Purchasing Agent Construction & Contracting Division
City of Buckeye
530 Monroe Avenue
Buckeye, AZ 85326

Dear Ms. Bell,

Thank you for the opportunity to provide this proposal to Buckeye. We are pleased to submit this proposal jointly on behalf of our firms: Federal Compliance Consulting and National Demographics Corporation.

This is a team of experienced redistricting professionals, structured to provide the County a comprehensive approach to addressing the complicated demographic and legal issues that are likely to arise in connection with redistricting in 2021. We believe our qualifications are exceptionally well-suited to the needs of the County in all customary aspects of advising public entities in connection with the redistricting process.

NDC has more than 40 years of experience districting and redistricting hundreds of counties, cities, school districts and other local jurisdictions, including all of the past districting and redistricting work for Buckeye (a full client list is available at www.ndcresearch.com/clients/). FCC also has over 30 years of experience in the legal/voting rights side of redistricting across the country.

For each project, there are certain required basic elements, and there are several options that the County can include or leave out at its option. NDC and FCC carefully tailor each project to the needs and goals of the individual client partner. We also welcome the opportunity to work with our clients to encourage public participation in this process, as we offer several tools developed specifically for public engagement in districting and redistricting.

Sincerely,



Douglas Johnson
President

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General Description of the Vendor

Brief History of National Demographics Corporation (NDC)

NDC has served hundreds of local governments since our founding in 1979, including Buckeye's initial move to by-district elections and Buckeye's post-2010-Census redistricting. While most of NDC's work is in California and Arizona, the firm has performed projects in all regions of the country, serving clients as varied as the States of Mississippi, Arizona, Florida and Illinois; Clark County (Nevada); the California counties of Merced, San Bernardino, and San Diego; the San Diego Unified School District; the City of Oakland; Yuma County (Arizona); the Arizona cities of Glendale, Mesa, Peoria, Phoenix, and Surprise; and relatively smaller jurisdictions such as the City of Bradbury and Clay Elementary School District.

The company is especially well known for its districting and redistricting work with local governments. NDC has established a reputation as the leading demographic expert on the California Voting Rights Act (CVRA), having performed demographic assessments of potential CVRA liability and/or moves to by-district elections for over 350 jurisdictions. No company has been responsible for addressing the electoral demographic needs of more local governments, as NDC has districted and/or redistricted more than 250 counties, school districts, cities, water districts, and other local jurisdictions.

Nationally recognized as a pioneer in good government districting and redistricting, NDC has unmatched expertise in the issues, questions, and decisions jurisdictions face in any discussion regarding districting, redistricting, the California and Federal Voting Rights Act and related election system choices.





NDC Company Information

National Demographics, Inc.
California-registered Corporation, Federal Tax ID # 95-3388237.
Mailing address: PO Box 5271, Glendale, CA 91221.
Address for Service: 1520 N Pacific Ave, Glendale, CA 91202.

NDC is the primary bidder for this proposal.

No NDC contract or subcontract held by NDC or officers of NDC has been terminated within the last five years.

No claims against NDC arising from a contract resulted in litigation or arbitration within the last five years.

The NDC Team

NDC's 40 years of service to local governments is grounded in our academic founding and decades of professional relationships with all forms of local governments. Each NDC team member has been extensively trained in the legal requirements, demographic details, and complicated personal and community interests involved in every districting and redistricting project. And every NDC team member has been briefed on the wide range of unusual and bizarre challenges NDC has encountered over our more than 250 successfully completed local government projects. Whatever question or situation arises, your NDC team can handle it.

NDC President Dr. Douglas Johnson leads all team training and closely monitors the progress of every client project. NDC President Dr. Johnson and Vice President Dr. Levitt are always available to all clients, and typically are personally involved whenever particularly unusual or complex situations arise. And each NDC project has an NDC Consultant or Senior Consultant as a primary point of contact to ensure seamless information flows and continuity. All NDC project leaders are a fully trained Consultants or Senior Consultants with years of experience working with local government elected leadership and top staff

members. Each NDC team leader brings their personal expertise in demographics, city governance, school district governance and/or special district management to every project. And each team leader has particular expertise and focus in specific geographic areas. All team members resumes are available on www.ndcresearch.com/about-us/.

NDC Current Organization Chart

NDC President	Douglas Johnson, Ph.D.
NDC Vice President	Justin Levitt, Ph.D.
Senior Consultants	Shalice Tilton Robert McEntire, Ed.D. Jeff Tilton, Ed.D.
Consultants	Kristen Parks Daniel Phillips, Ph.D. Shannon Kelly Jeff Simonetti Todd Tatum Ivy Beller Sakansky Douglas Yoakam
Records Manager	Michele Lewis

NDC Buckeye Project Team

In addition to Attorney Bruce Adelson of Federal Compliance Consulting, the NDC team will be led by NDC President Dr. Douglas Johnson, with day-to-day project management and public hearing presentations by NDC Consultant Ivy Sakanski (who lives in Maricopa County); data, demographics and mapping assistance from NDC Vice President Dr. Justin Levitt; and project support and public hearing assistance from NDC Consultant Dr. Jeff Tilton.

The only subcontractors would be Mr. Adelson and, if either optional online public mapping tools is selected by the City for inclusion in the project, software licensing and online hosting by either Caliper Corporation or ESRI.

Experience and Qualifications of NDC

Both national and local organizations have recognized NDC's unmatched experience and expertise in the Census, districting, and redistricting.

National Recognition

Nationally, the National Conference of State Legislatures hosted NDC as a panelist at five different forums held for state legislators and legislative staff from across the country. NDC President Douglas Johnson addressed these forums on the following topics:

1. *Citizen Voting Age Data from a line-drawer's viewpoint*
2. *Communities of Interest in Redistricting: A key to drawing 2011 plans (and for their defense)*
3. *The Key to Successful Redistricting*
4. *Communities of Interest In Redistricting: A Practical Guide*
5. *The Arizona Independent Redistricting Commissions' experiences with the first-ever independent redistricting*

In addition:

- The National League of Women Voters hosted NDC President Douglas Johnson at a 2006 conference on "Building a National Redistricting Reform Movement,"
- Texas Tech University hosted Dr. Johnson as a panelist at its "Symposium on Redistricting;"
- The Arizona League of Cities and Towns hosted Dr. Johnson as a panelist on "Redistricting Law and the Voting Rights Act: What It Means for Your City or Town in 2011" and
- The Arizona Bar Association hosted Dr. Johnson as a panelist on "Communities of interest and technology in redistricting."
- The California League of Cities, California State Association of Counties, the California School Board Association, and the California Special District Association have hosted NDC team members as panelists and speakers dozens of times.

NDC Testimonials

Here is a sampling of what people have to say about NDC:

"Our decision to work with National Demographics came out of our extraordinary city-wide success in 2015 with their work designing the original districts. I think anyone who participated in that process realized that the technical solutions they created opened access to literally dozens of people creating their own maps and it created a vibrant process."

Santa Barbara City Attorney Ariel Calonne

"Here's a great expert. . . . today you bring him in for what sounds like good information, very smart man up here."

United States Fourth District Court Judge James A Wynn, Covington v North Carolina, United States District Court for the Middle District of North Carolina, Case No. 1:15CV399

"I have worked on Congressional, Legislative, Los Angeles County and Los Angeles City redistricting maps on behalf of the Latino Caucus and grassroots Latino organizations for over 30 years. Douglas Johnson is one of the top redistricting experts in California, and he is who I would pick to draw a map for me anywhere in the state."

Alan Clayton, retired Executive Director of the Los Angeles County Chicano Employees Association

"The excel spreadsheet is a fantastic tool. Just plug in the letter by district and on the tab see a running total of population by assigned district. It's cool."

Modesto resident's comment, June 16, 2008

"One of the first, and in retrospect one of the best, decisions made by our commission was to hire Douglas Johnson and his colleagues at National Demographics Corporation as our primary consultants. I have never had the opportunity to work with a more highly qualified, hard-working, dedicated, professional and classy individual or group than Mr. Johnson and his associates at NDC."

Jim Huntwork, Arizona Independent Redistricting Commissioner (Republican)

"In addition to his technical expertise, Doug had a keen sense of how to help us navigate the complexities of the process. He understands redistricting better than any person I know. He has a unique ability to synthesize that which is very complicated and make it very understandable for the public. He frequently would present various options, without representing any position, clearly delineating differences and challenges of each option in a clear and succinct manner."

Josh Hall, Arizona Independent Redistricting Commissioner (Democrat)

"It was a great pleasure to work with Doug Johnson and NDC during the first Independent redistricting effort in Arizona. Doug and his staff were professional, efficient, responsive, and even-handed. They listened very carefully to the instructions given by the commission and performed each mapping task without bias of any kind. I would highly recommend NDC to any jurisdiction, or commission, wishing to have a successful redistricting process."

Steven W. Lynn, Chair, Arizona Independent Redistricting Commission (Independent)

"Thank you for all of your hard work, assistance, and patience with me during this year of CVRA conversion to by-area trustee elections. Your continual reassurance and support in dealing with all of the details was sincerely appreciated. We all have jobs to do, but when working with all of you I felt that you always went the extra mile to support our District with excellent customer service. The multiple revisions, extra conference calls, and follow up suggestions made a difference to Scott, Linda, and me. I personally enjoyed joking around with each of you while remaining professional in all presentations. It was a pleasure working with all of you. "

Jennifer Williams, Ed. D., Fullerton Joint Union High School District, Executive Director Administrative Services

"Thank you for taking time out of your busy schedule to participate in the City Official Roundtable I hosted on the 2020 U.S. Census at the Redondo Beach Performing Arts Center. I appreciate that you shared your expertise on the Census to the government officials who were present. It is critical that we work together to ensure that everyone is counted in the upcoming Census."

Ted W. Lieu, Member of Congress, California 33rd District.

Sample of NDC Projects

Client Name: **City of El Cajon**
Project Description: Change from at-large to by-district elections
Project Dates: September 2016 – June 2017
Staff Assigned: Douglas Johnson & Justin Levitt
Client Project Manager: Graham Mitchell, City Manager, or Morgan Foley, City Attorney
Telephone Number: City Manager: (619) 441-1716, City Attorney: (619) 441-1798
Email: GMitchell@cityofelcajon.us, mfoley@mcdougallove.com

El Cajon is a fascinating community: the politically conservative City has embraced its new, large, and rapidly growing Middle Eastern (largely refugee) community. The Council directed staff and NDC to conduct an extensive series of community forums in English, Spanish and Arabic, and a significant number of maps were drawn by residents and considered by the Council. While ultimately the map preferred by the main organization of Middle Eastern residents was not adopted by Council, it was in the 'final two,' and even those residents disappointed with the ultimate map selection expressed appreciation to the Council for its outreach, engagement, and openness to the ideas, concerns and maps of residents. For many residents, especially in the refugee community, this was their first active participation in City affairs, and they universally expressed an interest in participating again in the 2021 post-census redistricting of the city.

Client Name: **City of San Diego**
Project Description: City Council Independent Redistricting Commission
Project Dates: May 2011 – October 2011
Staff Assigned: Douglas Johnson & Justin Levitt
Client Project Manager: Ms. Sharon Spivak, Ast. City Attorney
Telephone Number: (619) 236-6220
Email: sspivak@sandiego.gov

By the time NDC was hired, San Diego's independent redistricting commission was already mired in deep partisan controversy. With NDC's assistance we shifted the focus from partisan sniping to community engagement and fact-based debate over the (many!) draft maps drawn by residents. An extensive public hearing process and multiple rounds of resident-drawn draft maps eventually led to controversies over difficult choices between different city neighborhoods but understanding of the commission's decisions, a high level of agreement (though

not unanimous) among the commissioners, and a general public perception that the final map was fair to all sides.

Client Name:	**City of Modesto**
Project Description:	2007 Charter Revision (creating independent redistricting commission), 2008 districting, and 2011 redistricting
Project Dates:	2006 – 2011
Staff Assigned:	Douglas Johnson
Client Project Manager:	Commission Chairman Judge Hugh Rose (ret.) and/or Charter Revision Commission Chairman George Petrulakis
Telephone Number:	Judge Rose: (209) 522-0719; Chairman Petrulakis: 209-522-0500
Email:	HHRose@hotmail.com, george@petrulakis.com

NDC assisted the City's Charter Revision Commission with writing what became the City Charter's independent redistricting language; guided its first independent commission through the drawing of the City's first by-district election map; and returned in 2011 for the City's first post-Census redistricting effort. All three elements of the project centered on independent commissions or independent committees. All three involved extensive education and training of the commission members by NDC. All three efforts involved extensive public outreach and engagement. Both the districting and redistricting involved numerous resident-drawn maps; hundreds of residents commenting on the maps; significant and contentious choices between the preferences of different neighborhoods; complicated voting rights act situations; and widespread acceptance and a lack of controversy over the ultimately adopted districting and redistricting maps (even among those who preferred other maps).

Client Name:	**City of Santa Maria**
Project Description:	Change from at-large to by-district elections
Project Dates:	February – May 2017
Staff Assigned:	Douglas Johnson & Justin Levitt
Client Project Manager:	City Manager Rick Haydon
Telephone Number:	(805) 925-0951 ext. 2200
Email:	rhaydon@cityofsantamaria.org

Despite a highly contentious debate over the decision to move from at-large to by-district elections (a large Latino group pushed for the change, even though the Mayor and two of the four Councilmembers were Latino), there was significant public participation in the districting process with 20 to 40 residents at every hearing, a number of resident-drawn maps considered, and ultimately

decent consensus that the Council-adopted map was fair and reasonable. The process was particularly notable in the number of high school and college students who participated in the drawing of maps and testified at hearings.

Additional NDC References

All of NDC's former clients – without exception – can be contacted for references. The following is only a sample of references:

Mr. Michael Bailey, City Attorney, Glendale, Arizona. 5850 W. Glendale Ave., Suite 450, Glendale, AZ 85301. 623-930-2930. mbailey@glendaleaz.com.

Mr. Graham Mitchell. City Manager. City of El Cajon. 200 Civic Center Way. El Cajon. CA 92020. (619) 441-1716. GMitchell@cityofelcajon.us.

Mr. Jason Stilwell. City Manager. City of Santa Maria. 110 E. Cook Street. Santa Maria. CA 93454-5190. (805) 925-0951 ext. 2200. jstilwell@cityofsantamaria.org.

Mr. Marcus Walton. Communications Director. West Contra Costa Unified. 1108 Bissell Ave., Room 211-215. Richmond, CA 94801. 510-205-3092. mwalton@wccusd.net.

Mr. Jonathan Vasquez. Superintendent. Los Nietos School District. 8324 S. Westman Ave., Whittier, CA 90606. (562) 692-0271 Ext. 3212 jonathan_vasquez@lnsd.net.

Ms. Jennifer Fitzgerald, Mayor, City of Fullerton. 303 W. Commonwealth Avenue. Fullerton, CA 92832. (714) 402-3106. jennifer@curtpringle.com.

Mr. James Atencio. Assistant City Attorney. City of Richmond. 450 Civic Center Plaza. Richmond, CA 94804. 510-620-6509. James_Atencio@ci.richmond.ca.us.

Ms. Isabel Montenegro. Administrative Assistant. Inglewood Unified. 401 South Inglewood Avenue, Inglewood, CA 90301. 310-419-2799. imontenegro@inglewood.k12.ca.us.

Ms. Pam Abel. Superintendent. Modesto City Schools. 426 Locust Street. Modesto. CA 95351-2631. (209) 574-1616. able.p@mcs4kids.com.

Mr. Darrell Talbert. City Manager. City of Corona. 400 S Vicentia Avenue. Corona. CA 92882-2187. 951.279.3670. Darrell.Talbert@ci.corona.ca.us.

Mr. David Silberman. Deputy County Counsel. San Mateo County. 400 County Center. 6th Floor. Redwood City. CA 94063. 650-363-4749 dsilberman@smcgov.org.

Judge Hugh Rose (retired). Chairman. City of Modesto Districting Commission. 508 King Richard Lane. Modesto. CA 95350. Phone (209) 522-0719. Email: hhrose@hotmail.com.

NDC Client List

Just since 2001, NDC has completed 368 local government districting and redistricting projects, and we are proud to say that not one has ever been overturned by a Judge or the U.S. Department of Justice. Here is a listing of those clients, including over 125 cities; over 130 school districts, 13 community college districts, and more than two dozen special districts of various kinds:

Alhambra
Alpine Union Elementary
Alta Irrigation
Alta Vista
Anaheim
Antelope Valley Community College
Apple Valley
Apple Valley Fire
Arcadia
Atwater
Bakersfield City Schools
Banning
Barstow
Barstow Community College
Barstow Unified
Bellflower
Big Bear Lake
Bonsall Union Elementary
Borrego Springs Unified
Brea-Orinda Unified
Buckeye
Buena Park
Buena Park Elementary
Burton Elementary
Cabrillo Unified
Cajon Valley Union Elementary
Calistoga Joint Unified
Camarillo
Campbell
Campbell Union High
Capistrano Unified
Cardiff Elementary
Carlsbad
Carlsbad Unified
Carpinteria Sanitary District
Carpinteria Valley Water
Carson
Caruthers
Caruthers Unified
Castaic Elementary
Cathedral City
Cayucas
Centinela Valley
Central Arizona College
Central Sanitary
Central Unified
Centralia Elementary
Ceres
Chino
Chino Hills
Chula Vista Elementary
Citrus Heights
Citrus Heights Water
Claremont
Claremont Unified
Clay Joint Elementary
Clovis Unified
Coalinga Healthcare
Coalinga-Huron Unified
Coast Community College
Coastside County Water
Compton
Corona
Coronado Unified
Covina Valley Unified
Cuesta
Cypress Elementary
Dana Point
Dehesa Elementary
Del Mar Union Elementary
Desert Healthcare
Dinuba Unified
Duarte
East Whittier CSD
Eastern Sierra Unified
Eastside Union Elementary
Eastvale
El Cajon
El Monte High
El Tejon Unified
Elk Grove
Elk Grove Unified
Encinitas
Encinitas Union Elementary
Escalon Unified
Escondido
Escondido Union Elementary
Escondido Union High
Exeter High
Exeter Union Elementary
Exeter Union High
Fairfield
Fairfield-Suisiun Unified
Fallbrook Regional Health
Fallbrook Union Elementary
Fallbrook Union High
Firebaugh
Firebaugh-Las Deltas Joint Unified
Folsom Cordova Unified
Fontana
Fowler Unified
Fresno County Office of Education

Fresno Irrigation
Fresno Unified
Fullerton
Fullerton Joint Union High
Gilroy Unified
Glendale Community College
Glendale Unified
Glendora
Glendora Unified
Golden Plains Schools
Goleta
Goleta Sanitary District
Goleta Valley Water
Greenfield
Greenfield Union
Grossmont Healthcare
Grossmont Union High
Grossmont-Cuyamaca Community College
Guadalupe Union
Half Moon Bay
Hemet
Hermosa Beach Elementary
Hesperia
Hi Desert Water
Highland
Hughson Unified
Imperial Beach
Imperial Irrigation District
Indio
Inglewood Unified
Irvine Unified
Jamul-Dulzura Union Elementary
Joshua Basin Water
Julian Union Elementary
Julian Union High
Jurupa Community Service District
Jurupa Valley
Kerman Unified
Kern Union High
Keyes Union
King City
Kings Canyon Unified School District
Kings River Conservation District
Kings River Elementary
Kingsburg
Kingsburg Elementary Charter
Kingsburg Joint Union High
La Mesa-Spring Valley
La Mirada
Lake Arrowhead CSD
Lake Elsinore
Lake Forest
Lakeside Union Elementary
Lakewood
Lancaster City Elementary
Lawndale Elementary
Le Grand Union Elementary
Lemon Grove Elementary
Lemoore
Leucadia Wastewater
Lincoln
Lindsay Unified
Little Lake City Schools
Lodi
Lompoc
Los Alamitos
Los Alamitos Unified
Los Banos
Los Nietos Elementary
Lowell Joint Union
Lucia Mar
Madera
Madera Unified
Magnolia Elementary
Martinez
Menifee
Menlo Park
Merced City
County
Merced City Elementary
Merced Union High
Mesa
MiraCosta Community College
Modesto
Modesto City Schools
Modoc Unified
Mojave Water Agency
Monson-Sultana Joint Union Elementary
Monterey Airport
Monterey Park
Moorpark
Moreno Valley
Morgan Hill
Morgan Hill Unified
Morongo Unified
Mountain Empire Unified
Murrieta
Napa
Napa Valley Unified
National Elementary
New Jerusalem School District
Newhall Elementary
Newman-Crows Landing Unified
Novato
Oak Grove Elementary
Oakland
Oceanside Unified
Ojai
Ontario
Orange
Oxnard
Pacific Union
Pacifica
Palm Desert
Palm Springs
Palmdale
Palmdale Water
Palo Verde Elementary
Palomar Community College
Palomar Healthcare
Panama-Buena Vista Union Elementary
Parlier

Pasadena
Pasadena Unified
Paso Robles
Patterson
Peoria
Perris Union High
Pixley Union Elementary
Placentia
Placentia Yorba Linda
Pleasant Valley Parks & Rec
Pleasant View
Pomona Unified
Porterville
Porterville Unified
Poway
Poway Unified
Ramona Unified
Rancho Cordova Unified
Rancho Cucamonga
Rancho Santa Fe Elementary
Rancho Santiago Community College
Redlands
Redwood City
Reedley
Richland School District
Richland Union Elementary
Riverbank
Riverbank Unified
Riverdale Unified
Rohnert Park
Rosedale Elementary
Roseville
Rowland Water
Salida Union
San Benito High
San Bernardino County
San Bernardino Water
San Diego City
San Diego County
San Diego Community College
San Diego County Office of Education
San Dieguito Union High
San Jacinto Unified
San Joaquin County Office of Education
San Juan Capistrano
San Juan Unified
San Luis Obispo County (Cuesta) Community College
San Luis Obispo County Office of Education
San Marcos
San Marcos Unified
San Mateo County
San Miguel Fire Protection District
San Pasqual Union Elementary
San Rafael
San Rafael City Schools
San Ysidro Elementary
Sanger
Santa Barbara
Santa Clara Valley Water
Santa Clarita
Santa Clarita Valley Water
Santa Cruz City
Santa Cruz City Schools
Santa Maria
Santa Maria Airport
Santa Rosa
Santee
Santee Elementary
Selma
Selma Unified
Sequoia Union High
Sierra Community College
Simi Valley
Simi Valley Unified
Solana Beach
Solana Beach Elementary
South Bay Union
South Coast Water
South Pasadena
South San Francisco
South San Francisco Unified
Southwestern
Spencer Valley Elementary
Stanton
Stockton
Strathmore Union Elementary
Sulphur Springs Elementary
Sundale Union Elementary
Sunnyvale
Surprise
Sweetwater Union High
Tehachapi
Temecula
Three Valleys Municipal Water
Torrance
Torrance Unified
Tri-City Healthcare
Tulare City
Tulare City Elementary
Tulare County Office of Education
Tulare Joint Union High
Tulare Regional Health Care District
Tulelake Basin
Tuolumne County Office of Education
Turlock
Turlock Unified
Tustin Unified
Twentynine Palms
Twin Rivers Unified
Union City
Upper San Gabriel Valley Water
Vallecitos Elementary
Vallejo
Valley Center Pauma Unified
Valley Sanitation
Ventura City
Visalia
Visalia Unified
Vista

Vista Unified
Walnut Valley Water
Warner Unified
Wasco
Washington Colony Elementary
Washington Unified
Washington Union
Waterford Union
Weaver Union Elementary
West Covina
West Fresno Elementary
West Valley Water
Western Municipal Water
Westminster
Westside Community Health Care District
Whittier
Whittier City Schools
Whittier Union High
Wildomar
Winton Water
Woodlake Unified
Woodlake Union
Yucaipa
Yucca Valley
Yuma County

Federal Compliance Consulting Qualifications and Expertise

Bruce Adelson has worked and consulted with Arizona counties, cities, towns, and school districts since 2000, as a U.S. Department of Justice (DOJ) Senior Trial Attorney and as a consultant for the County's 2010 redistricting.

He is a former Senior Trial Attorney for DOJ's Civil Rights Division Voting Section. During Bruce's DOJ career, the Attorney General of the United States twice recognized Bruce's federal voting and election work, including redistricting, with "Special Achievement" Awards.

At DOJ, he was the lead attorney responsible for Arizona. Bruce was the DOJ Arizona team leader for redistricting review during the 2000 redistricting cycle. His team issued the Voting Rights Act Section 5 objection to Arizona's legislative redistricting in 2002. During his DOJ career, Bruce conducted Voting Rights Act analyses and Section 5 preclearance reviews of Arizona redistricting plans for all cities, towns, and counties, the state, and special districts as well as reviews and analyzes for dozens of redistricting plans from multiple states across the United States.

During Bruce's DOJ career, his responsibilities included serving as:

- Lead Attorney for election investigation, observation, and monitoring in New York City and various municipalities and counties in Illinois, Mississippi, Georgia, California, Pennsylvania, Arizona, Texas, and New Mexico. He led DOJ's New York City election team on 9/11.
- Lead Attorney monitoring and investigating how cities, counties, and states across the country conduct and administer their elections and comply with federal law and election governance best practices, especially the Voting Rights Act. This involved working closely with election officials at all levels of government and initiating enforcement as needed, such as against the State of Michigan pursuant to UOCAVA.

- DOJ's Team Leader for the Department's Nationwide Voting Rights Complaint Hotline on Election Day;
- Team Leader for DOJ's review of Arizona's 2002 and 2003 legislative redistricting plans, Arizona's 2002 Congressional redistricting plan, New York City's 2003 City Council redistricting plan, Phoenix's 2002 City Council redistricting plan, dozens of redistricting plans for counties, parishes, special districts, and cities in Texas, Alabama, Arizona, Mississippi, New York, Louisiana, and South Carolina, and many other statewide and local voting changes across the United States.
- Lead Attorney for outreach, enforcement, and investigation of Voting Rights Act Minority Language Election Information programs in Spanish, Vietnamese, Tagalog, and Native American languages in Arizona, New Mexico, New York, Nevada, and Texas.

Today, Bruce is CEO of Federal Compliance Consulting LLC and provides redistricting, federal voting, and election law consulting and litigation services to local and state governments. Bruce has consulted with secretaries of state, state election directors, local jurisdictions and state governments, Native American tribal governments, and public interest organizations concerning federal voting and election law.

Bruce is the consulting and/or testifying expert in federal and state lawsuits alleging violations of multiple federal laws, such as The Voting Rights Act of 1965 and Americans with Disabilities Act. He has been a Guest Voting and Election Law Speaker and Lecturer at Auburn University, Harvard University, and University of Baltimore School of Law.

Bruce has 21 years of redistricting experience, including private practice consultation and litigation and enforcement during his career with the U.S. Department of Justice. Bruce and Federal Compliance Consulting have been in business for 15 years.

Redistricting Work Post-DOJ

During the 2010 redistricting cycle, Bruce consulted with Arizona municipalities, counties, public school, and community college districts on their redistricting and with states and other jurisdictions from Alaska to Maryland. He also assisted his clients with outreach, community meetings, and answering community questions about the redistricting process.

In his post-DOJ career, all of Bruce's Section 5 covered redistricting clients received DOJ Section 5 preclearance on first submission with no requests for

additional information or other DOJ rejections. All court challenges to redistricting plans that Bruce prepared and/or analyzed were dismissed, such as the challenge to Arizona's statewide legislative redistricting plan by a three-judge court and the U.S. Supreme Court. All of Bruce's redistricting clients successfully implemented their redistricting plans.

Bruce is the Voting Rights Act expert for the Arizona Independent Redistricting Commission (AIRC). As the Commission's Voting Rights Act expert during the 2010 redistricting cycle, Bruce provided advice and guidance to the Commission, Commissioners, and Commission counsel concerning redistricting, including legal guidance pursuant to Voting Rights Act Sections 2, 5, and 203 and the U.S. Constitution. The U.S. Department of Justice precleared Arizona's legislative redistricting plans on first Section 5 submission for the first time in over 20 years.

Bruce was the AIRC's consulting expert in federal litigation challenging the Commission's legislative redistricting plan before a three-judge federal court and on direct appeal to the U.S. Supreme Court. The three-judge court upheld the Commission's redistricting plan and endorsed Bruce's advice to the Commission *Harris v. AIRC*, 993 F.Supp.2d 1042 (D. Ariz., 2014). In April 2016, the U.S. Supreme Court unanimously upheld the plan's legality 9-0. In part, the Court held that when a state or local government draws a redistricting plan that keeps population deviations below 10%, the map is presumptively legal when "the population deviations were primarily a result of good-faith efforts to comply with the Voting Rights Act."

Bruce has given keynote voting & redistricting presentations to many organizations such as the National Association of State Election Directors, National Conference of State Legislatures, National Association of Counties, The Arizona League of Cities and Towns, Arizona State Bar, Arizona Attorney General, Arizona Secretary of State; Maricopa County; Texas District and County Attorneys Association; New Mexico County Clerks Association; Washington State Association of County Auditors; Tri-State (AZ, NM, UT) and Tri-County (Apache, Navajo, Coconino) Native American Language Election Information Conferences; Gila County's American Indian Voter Outreach Summit; and the Inter-Tribal Council of Nevada.

- Nevada Secretary of State –Comprehensive federal voting and election law consultation, including NVRA, Voting Rights Act, HAVA, and UOCAVA, redistricting, observation of federal primary election polling place practices in several Nevada counties, and best practices recommendations.

- Arizona Secretary of State – various provisions of the Voting Rights Act, including Section 203, Section 11(b) voter intimidation, and Sections 5 and 2 for redistricting.

- Alaska Lieutenant Governor and Director of Elections – Voting Rights Act Section 203 Alaska Native language requirements, and Voting Rights Act Sections 2 and 5 concerning redistricting.

FCC Redistricting Consultations:

- Navajo County, Arizona
- State of Arizona
- City of Globe, Arizona
- City of Phoenix, Arizona
- City of Los Angeles, California
- New York City, New York
- Allegan County, Michigan
- Yavapai County, Arizona
- Pinal County, Arizona
- Gila County, Arizona
- Mohave County, Arizona
- Greenlee County, Arizona
- Graham County, Arizona
- La Paz County, Arizona
- Western Arizona Vocational Education District
- Gila Community College, Arizona
- Ford County, Kansas
- Multiple confidential jurisdictions – states, counties, and municipalities

Bruce is consulting with jurisdictions for their 2020 redistricting, his third decennial Census redistricting cycle.

Federal Compliance Consulting References

Ray Bladine, Executive Director, Arizona Independent Redistricting Commission 4000 N Central Ave #1150, Phoenix, AZ 85012. rbladine@cox.net 602-740-8894 (Cell)

> Bruce Adelson was the Voting Rights Act expert for the Arizona Independent Redistricting Commission during the 2010-11 redistricting cycle. Bruce provided advice and guidance to the Commission,

Commissioners, and Commission counsel concerning all aspects of redistricting. The U.S. Department of Justice precleared Arizona's legislative redistricting plans on first Section 5 submission for the first time in over 20 years. Bruce was the AIRC's consulting expert in federal litigation challenging the Commission's legislative redistricting plan before a three-judge federal court and on direct appeal to the U.S. Supreme Court.

Deborah Herbert, Mohave County Deputy County Attorney, 700 West Beale Street, Kingman, AZ 86401, 928-753-0770, ext. 4274.

Bruce Adelson consulted with Mohave County during the 2011 redistricting cycle and advised The County's redistricting plans for the Board of Supervisors, justice of the peace districts, and community college districts. The U.S. Department of Justice precleared all of the County's redistricting plans on first submission.

Gilda R. Daniels, Associate Professor of Law, University of Baltimore School of Law, gdaniels(mubalt.edu 410.837.4607, John and Frances Angelos Law Center, Room 1012, 1420 N. Charles Street, Baltimore, MD 21201.

Professor Daniels was the Deputy Chief, Voting Section, U.S. Department of Justice, during Bruce's Voting section career. They worked together on myriad Justice Department investigations and cases. Professor Daniels and Bruce consulted on numerous redistricting consultations during the 2010 cycle, including but not limited to Arizona's Congressional and legislative redistricting.

Project Approach and Visual Tools

NDC's visual tools are so integrated into our public engagement and redistricting process that we present these requested descriptions together in one section.

NDC Company Philosophy

Professionalism

NDC's personnel are nationally recognized as leaders in the districting field and are responsible for numerous books and articles on the subject. NDC possesses all the hardware and software necessary to meet the districting and redistricting needs of any jurisdiction, and its personnel have unmatched experience in the line-drawing side of this work, as well as in developing the databases used for these purposes. But more important are the firm's interpersonal skills and the team's understanding of the perspective of all parties in this process.

Partnership

In recognition of the vital role these groups play in informing and assisting their members, NDC is a sponsor of the California League of Cities, the California Special Districts Association, and we are currently finalizing our sponsorship of the California School Boards Association and the California Association of Counties.

For years, NDC has frequently appeared on panels organized by these organizations to share information with their members about the California Voting Rights Act, the Census, and the districting and redistricting rules and process.

NDC also assists the League of Cities and CSBA with negotiations and suggested language for legislation on districting/redistricting and the California Voting Rights Act.

Local Leadership and NDC's Non-Partisan Approach

NDC is an advisor and technical resource. The firm's role is to assist our clients in implementing our clients' goals and directions within the complicated demographic and legal constraints of the project. NDC shares its experience and expertise, but the final plan is selected by the jurisdiction's elected leaders, not NDC. The firm is sometimes criticized, usually by people from outside of the client jurisdiction, for not acting as an advocate or proselytizer for what these outsiders think is "right" for the client. But NDC team members are expert advisors, not proselytizers. NDC guides our clients through the process to a map

that meets all legal requirements and the goals of our client – not the goals of outside critics. NDC welcomes the chance to assist each client through this process following the direction of the jurisdiction's elected leadership, key staff members, and the entire community.

A common question in many redistricting projects is whether there is any influence of any improper political bias on the process. NDC's four decades of success working for jurisdictions with all-Democratic leadership, jurisdictions with all-Republican leadership, and every possible combination in between, reflects our steadfast dedication to non-partisan service. At work, each of us puts our personal political feelings aside and focuses on implementing the policy goals and directions of our clients using NDC's non-partisan, professional and expert guidance regarding the requirements and options facing each client. We believe most of our clients would be hard-pressed to guess which NDC team members are registered as independents or with any political party, and we are proud to have satisfied customers and clients whose partisan leanings (even in their non-partisan local government offices) similarly cross the entire partisan spectrum.

Openness

Any change in election systems can have momentous implications for the distribution of political power in a jurisdiction and for access by groups and individuals to the governance process. Not surprisingly, such changes often attract considerable public attention, sometimes generate intense controversy, and may draw charges of manipulation and abuse of power. It is crucial, therefore, that the jurisdiction establish, at the beginning, a process that is not only fair, but that is seen to be fair, to all contending groups and individuals.

Public Engagement

NDC pioneered the "transparent districting" approach that involves the public at every stage of the process and the company invented the "public participation kit" back in 1990. But NDC's most valuable service is the firm's experience transforming often contentious and passionate debates into thoughtful, constructive discussions focused on the options and outcomes rather than individual personalities. NDC also has considerable experience working with translators in public forums and providing materials in English and Spanish.

NDC's approach has been widely praised in the media, and NDC has worked extensively with all types of press including radio, television, newspaper, and new media.

Project Software

NDC uses Caliper Corporation's Maptitude for Redistricting software for processing public map submissions and drawing NDC's draft maps and Board-directed revisions. Maptitude for Redistricting can open and use the standard "Shapefile" and "File Geodatabase" GIS data formats, and Maptitude for Redistricting can export all files to "Shapefile" and "File Geodatabase" formats.

NDC uses ESRI's ArcGIS Online to present those maps for Board, Staff and Public review in an easy-to-use, interactive format. NDC also uses ArcGIS Pro for some specialized Geographic Information System (GIS) analysis; for opening and reviewing data received from clients or from other jurisdictions; and when needed for final map post-adoption processing for delivery to the jurisdiction and to the County Registrar. Microsoft PowerPoint is also used for many presentations, though NDC is currently experimenting with a possible move to ESRI's "Story Maps" for some presentations.

NDC Approach to Public Engagement

The Three E's of Public Participation: Engage, Educate, and Empower

NDC's "Three E's" approach recognizes the complex and daunting nature of districting and redistricting projects, while emphasizing the importance of public participation in such projects.

Given the complexity of the issue, the public cannot be expected to jump in with constructive ideas and input without encouragement. So NDC's approach begins with the first "E": **Engage**. NDC works with our clients to get the word out about why the project matters – and how input from residents can be a decisive element of the project.

Once their interest is engaged, the second "E" is **Educate**. Most media coverage of this topic focuses on congressional gerrymandering, giving the entire field a tainted and hopeless feel. NDC works with our clients to explain how local districting and redistricting is based on neighborhoods and communities – not national politics. We educate the public on the data, requirements, and goals of redistricting, and on the many options residents have to formulate and share their own maps or other constructive input.

The third "E" is **Empower**. For those projects where the level of public interest and engagement justify the expense, NDC offers an unmatched array of paper,

Excel-based, and online mapping tools that residents can use to draw detailed, population-balanced maps for consideration by the jurisdiction.

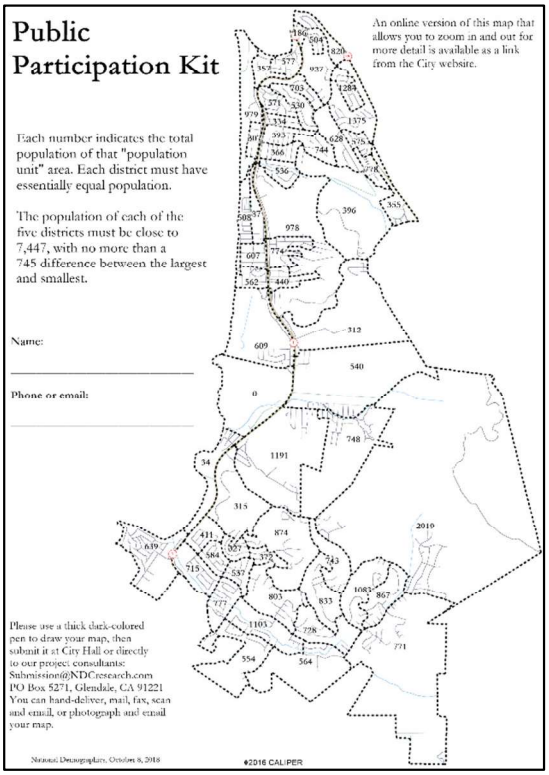
When included in a project, NDC has seen considerable public interest in these optional public participation tools. Often five, ten or even twenty or thirty draft maps are proposed by community residents. And NDC developed a highly refined and proven methodology for efficiently guiding our clients through selecting and refining a map, even when starting from 10, 20, 30 or more initial draft maps.

For those jurisdictions where the expense of the optional mapping tools is too high, NDC always welcomes any letters, comments, or hand-drawn maps that residents wish to submit during the districting or redistricting process.

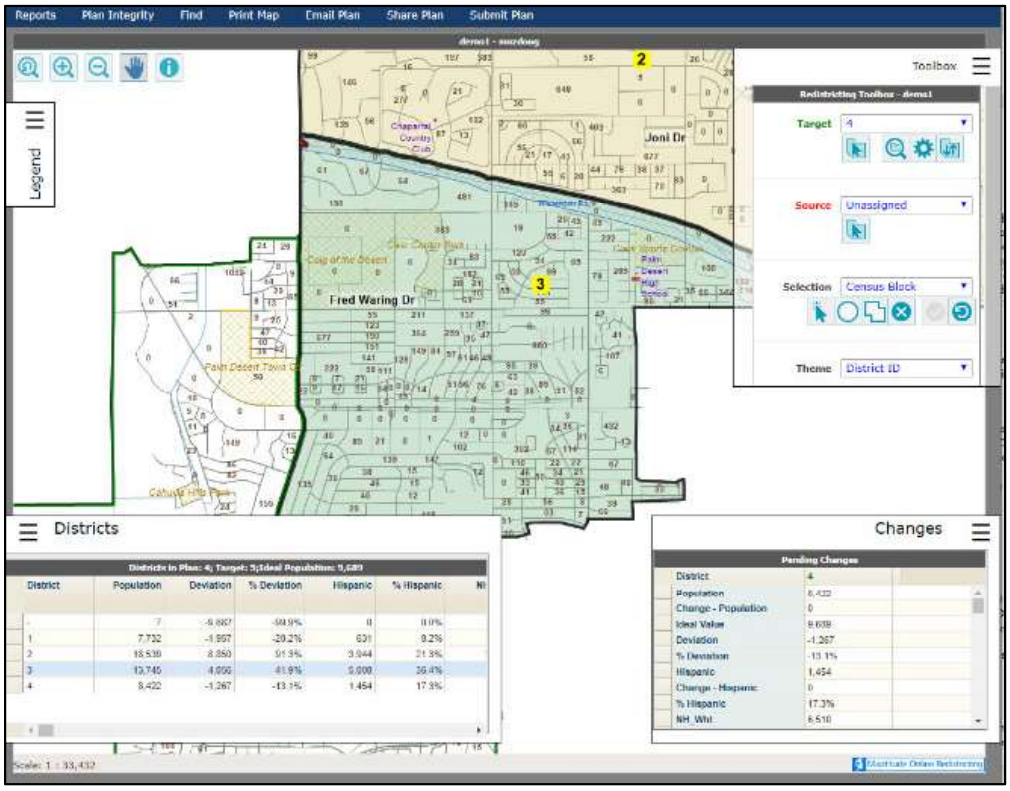
For every project, at no extra expense, NDC includes an online "interactive review map" that allows residents to analyze draft maps zooming in and out, searching for specific addresses, and by changing between street maps, satellite images, and other underlying base maps.

Samples of these tools are shown on the following pages, and additional details on each of them appears later in this proposal.

Sample Public Participation Mapping Tool

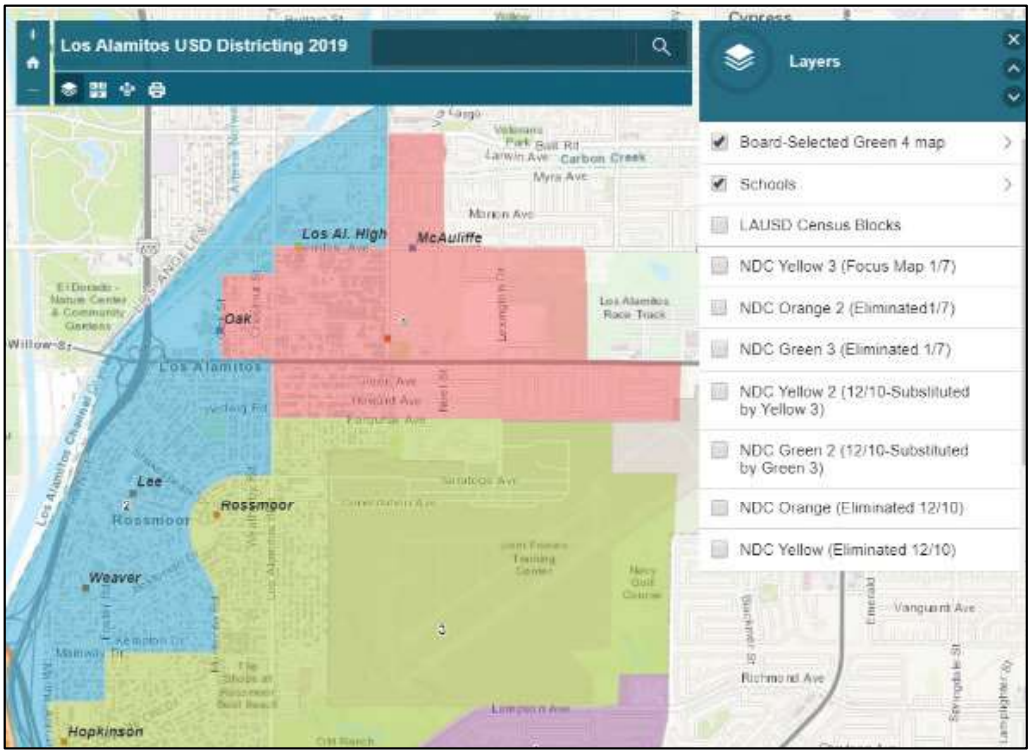


Sample Online Mapping Tool



Sample NDC "Interactive Review Map"

(used to view and evaluate, not to draw, maps)



Summary Scope of Work

NDC tailors each project to the needs and goals of each jurisdictions. Below is a typical NDC-suggested timeline and description of project elements.

The dates provided below are general guidelines and will vary according to the goals, project choices, and deadlines of each jurisdiction.

June – July	Project Planning and decisions on public mapping tools, whether to use a commission, and other project options. Begin project communications and outreach. Initial pre-draft-map hearing(s) may be held.
August	Census data received and processed; any mapping tools updated.
September – December	Draft maps prepared, considered, and revised (in hearings and, if desired, less formal public workshops)
January – February	Final plan revisions made and plan adopted and implemented.

Detailed Project Scope of Work

June – July, 2021: Project Planning, Initial Outreach and possible Hearing(s)

a. NDC and FCC work with the jurisdiction to prepare a detailed project timeline of expected outreach efforts, public forums, formal hearings, draft map dates, and final map adoption dates.

b. NDC and FCC work with the jurisdiction staff (or contract specialized outreach staff – see notes below about that option if interested) to prepare a project outreach plan for all steps of the process covering target audiences, contact lists, social media efforts, any potential postcard mailings, utility bill inserts, flyers for distribution at schools, media briefings, and community group contacts.

c. Decide what public mapping tool(s) to provide, if any.

d. Decide whether to use a commission.

e. Create the project website: NDC and FCC will provide advice and text for the jurisdiction's website, or as an optional project element NDC will build

a project website that the jurisdiction can simply link to from the jurisdiction site.

f. NDC will work with jurisdiction and County Registrar staff to confirm GIS boundaries and to identify and include in our redistricting database any available GIS data that NDC and the jurisdiction identify are likely to be useful as mapping references for NDC, the public, and for the jurisdiction.

g. Any necessary analysis of polarized voting is conducted by NDC and reviewed by FCC.

h. Project outreach begins with initial alerts and 'invitations to participate' sent out to the general public, to overlapping jurisdictions, and to community organizations.

i. At any pre-draft hearing(s), NDC would present an overview of the redistricting criteria, jurisdiction demographics, and state and federal requirements.

j. The project timeline and outreach plan are presented to the public for comments and feedback, along with a request to the public to provide guidance on what residents consider key neighborhoods, communities of interest, and other project-related regions in the jurisdiction.

k. If the optional public mapping tools and/or Public Participation Kit are included in the project, their use is demonstrated to the public.

l. Outreach efforts continue with messaging to the public, with special focus on community groups with an interest in the redistricting.

August, 2021: Census Data

m. Census data released.

n. NDC adds socio-economic data from the Census Bureau's American Community Survey to the Census data.

o. NDC matches the demographic database to the existing election areas.

p. NDC and FCC prepare a report regarding the demographics and compliance with state and federal criteria of the existing election areas, including maps of "protected class" population concentrations and other socio-economic data often referenced in redistricting (such as income,

education levels, children at home, language spoken at home, renters / homeowners, and single-family / multi-family residences).

August – September, 2021: Draft Mapping Time

q. Outreach efforts continue with messaging reminding the public of the opportunity to provide written or mapped input on how the maps should be drawn and welcoming any maps residents with to submit.

r. If the optional public mapping tools and/or Public Participation Kit are included in the project, NDC provides email and phone support for any residents with questions regarding their use.

s. If the optional public mapping tools and/or Public Participation Kit are included in the project, at the jurisdiction's option additional public forums on the use of those tools can be provided.

t. The public deadline for submitting any initial draft maps will be approximately seven days prior to the official deadline to post all draft maps online (to provide NDC time to process any draft maps received, and for NDC to develop our own two to four initial draft maps).

u. All outreach channels are used to inform the public about the opportunity to submit draft maps and to encourage participation in the review of the upcoming draft maps.

September – November, 2021: Initial Map Review and Direction

v. NDC processes all public draft map submissions, drafts NDC's draft maps, summarizes all of the draft maps. The maps, related demographics, and summaries are provided by NDC in web-friendly formats and fully vetted by FCC. These process maps are posted on the project website and on the NDC-provided interactive review map.

w. At the jurisdiction's option, one or more informal workshops or public forums are held to gather residents' reactions to and preferences among the draft maps.

x. The jurisdiction holds a hearing to review the draft maps, narrow down the list of initial draft maps, and provide direction on any desired new or revised maps.

y. Two to three weeks are needed for the public to submit any new maps and for NDC to provide maps based on the direction at the hearing. During this

time, additional outreach is conducted to inform interested residents and community groups of the selected 'focus maps' and the remaining opportunities to participate in the process.

January – February, 2022: Map Adoption

z. Any new or revised maps, related demographics, and summaries are posted on the project website.

aa. At the jurisdiction's option, one or more informal workshops or public forums are held to gather residents' reactions to and preferences among the remaining maps.

bb. One or more hearings are held to continue the review and refinement of the focus maps and, ultimately, adopt the final map.

cc. Outreach continues to inform residents and community groups of the progress of the project, opportunities for future participation, and, ultimately, which map is adopted.

dd. Following map adoption, NDC coordinates map implementation with the County Registrar, informing the jurisdiction staff of the progress, any issues, and ultimate completion of that work.

ee. NDC works with the jurisdiction staff to ensure preservation of all project data and records, including GIS-format versions of the adopted map.

Details of Optional Project Elements

Advisory or Independent Redistricting Commissions

NDC anticipates that many California jurisdictions will create advisory or independent commissions to manage the redistricting process. NDC welcomes the use of such commissions, and our pricing does not change for jurisdictions creating commissions. But the creation, training, operation and reporting of such commissions often leads to more meetings (and a resulting increase in the "per meeting" project expenses) than a traditional redistricting process conducted primarily by the jurisdiction's elected leadership.

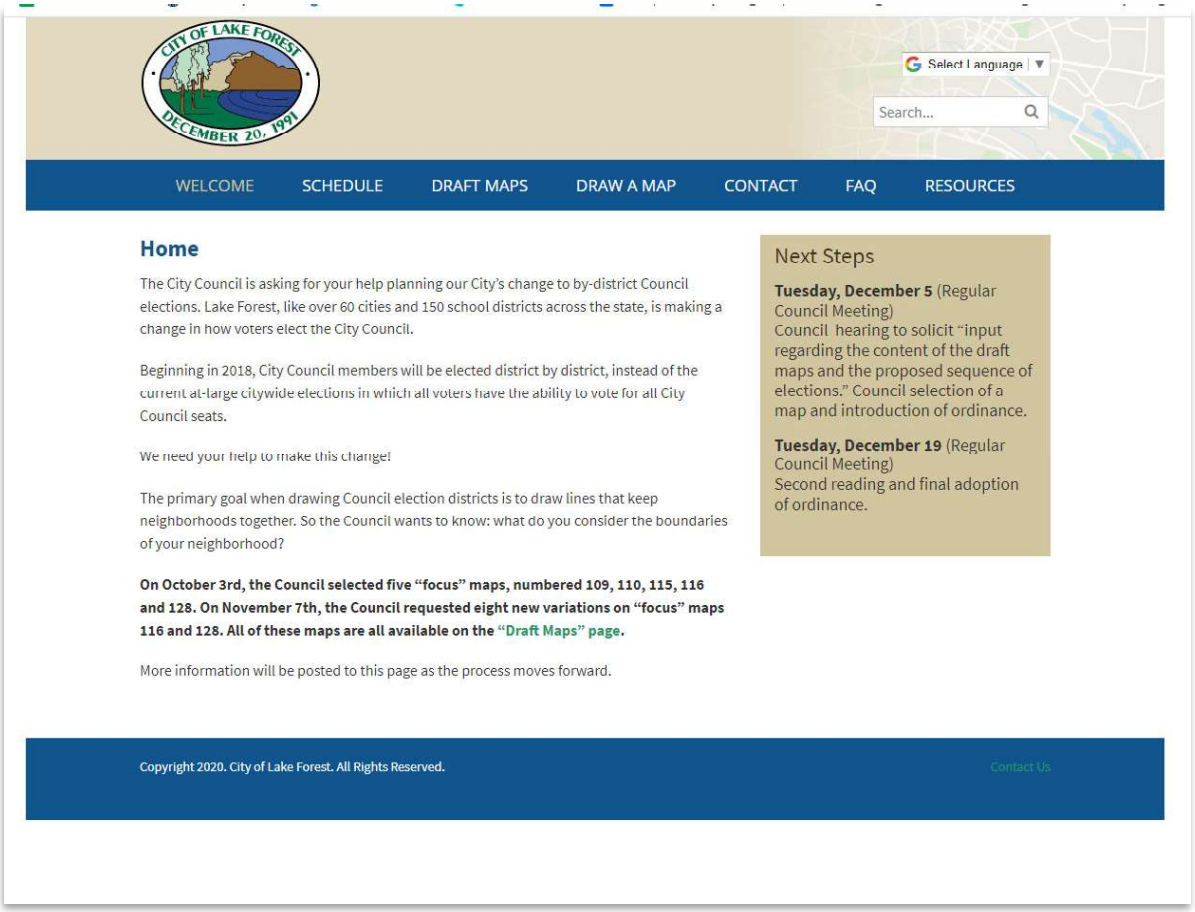
Outreach Assistance

NDC brings topical expertise to your jurisdiction's outreach efforts, and NDC makes available to all clients our library of sample outreach materials including op-ed articles, postcards, utility bill inserts, flyers, and social media messages. NDC provides all of these materials along with our advice and input on outreach strategy and materials to any interested jurisdiction, but we do not have graphic artists to customize or design such materials in-house.

For larger-scale outreach efforts, especially where jurisdictions wish to send representatives out to regular meetings of existing community organizations, NDC typically works together with a jurisdiction's in-house communications staff and/or with one or more outreach organizations. We often work with, and highly recommend, Tripepi-Smith, and some information on the services they offer is included at the end of this proposal. And we would be happy to work with any in-house team at the jurisdiction or with any firm or organization the jurisdiction selects. Many projects can be handled by a jurisdiction's in-house or regular outreach and communications teams (with samples and topic expertise provided by NDC), but a number of jurisdictions seek supplemental outside communications assistance.

Project Website

NDC provides all project materials in website-friendly formats for posting on the jurisdiction's website. At no cost, NDC will provide project website samples and website language for use on the jurisdiction's project website. But for jurisdictions that prefer not to take on the challenge of creating and managing a rapidly-changing project website, NDC will create, host, and update project website (visit to see one such site – though note that site was created prior to passage of the new AB849 requirements).

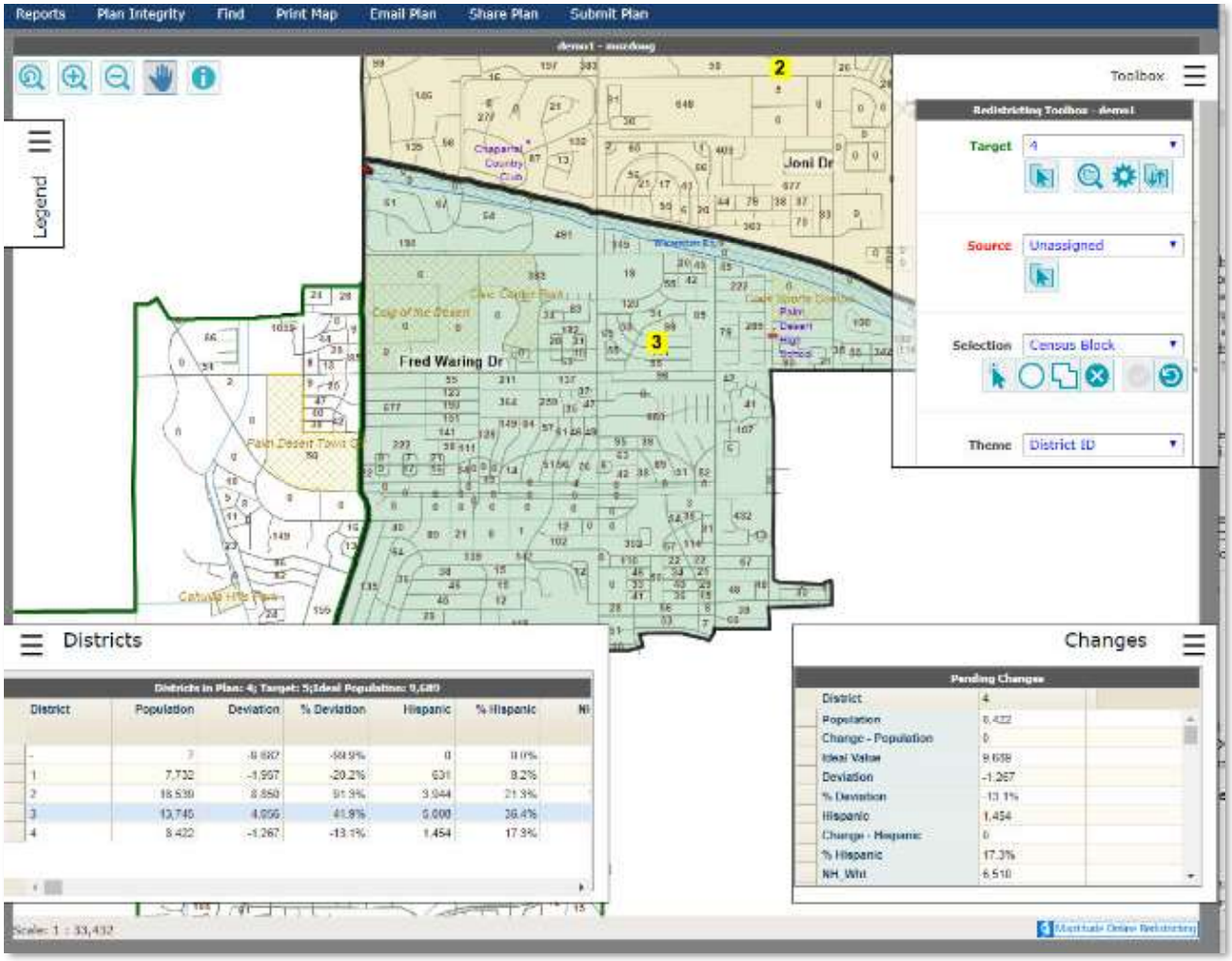


Background on Online Mapping Tool Options

NDC is the unmatched leader in redistricting tools that empower residents to review draft maps and to develop and submit their own map proposals. NDC is the only firm that has used the online mapping solutions from both ESRI and Caliper Corporation in major redistricting projects.

Only NDC has repeatedly trained members of the public, processed public map submissions, and presented the public map proposals to public hearings and commission meetings. NDC's online mapping tool options provide user support, hosting, managing, and processing submitted plans for an online interactive system that allows public to draw and submit proposed maps through a standard web browser.

In the more than 200 California local districting projects between 2012 and 2020, NDC is the only consultant providing clients access to Caliper Corporation's "Maptitude Online Redistricting" tool. Even with the technical challenges arising from such tools' power and flexibility, NDC's training and encouragement frequently results in 10, 20, 30 or more different maps drawn by residents of the school district or city providing that tool to its residents.



SECTION X: PROPOSAL CERTIFICATION/CONFLICT OF INTEREST CERTIFICATION

City of Buckeye
Construction & Contracting Division
530 Monroe Avenue
Buckeye, Arizona 85326

The undersigned certifies that to the best of his/her knowledge: (**check only one**)

(✓) There is no officer or employee of City of Buckeye who has, or whose relative has, a substantial interest in any contract resulting from this request.

( ) The names of any and all public officers or employees of City of Buckeye who have, or whose relative has, a substantial interest in any contract resulting from this request, and the nature of the substantial interest, are included below or as an attachment to this certification. In compliance with **Request for Proposal No. 2021028**, for **Redistricting Services** in the City of Buckeye and after carefully reviewing all the terms, conditions and requirements contained therein, the undersigned agrees to furnish such good/services in accordance with the specifications/scope of work.

AMENDMENTS: Receipt of the following Amendments is acknowledged, and the provisions are included in this RFP:

Amendment No._____ **Dated**_____
Amendment No._____ **Dated**_____
Amendment No._____ **Dated**_____
Amendment No._____ **Dated**_____

Firm Name: National Demographics Inc

Address: PO Box 5271

City: Glendale, **State:** CA **Zip:** 91221

(Signature Required)

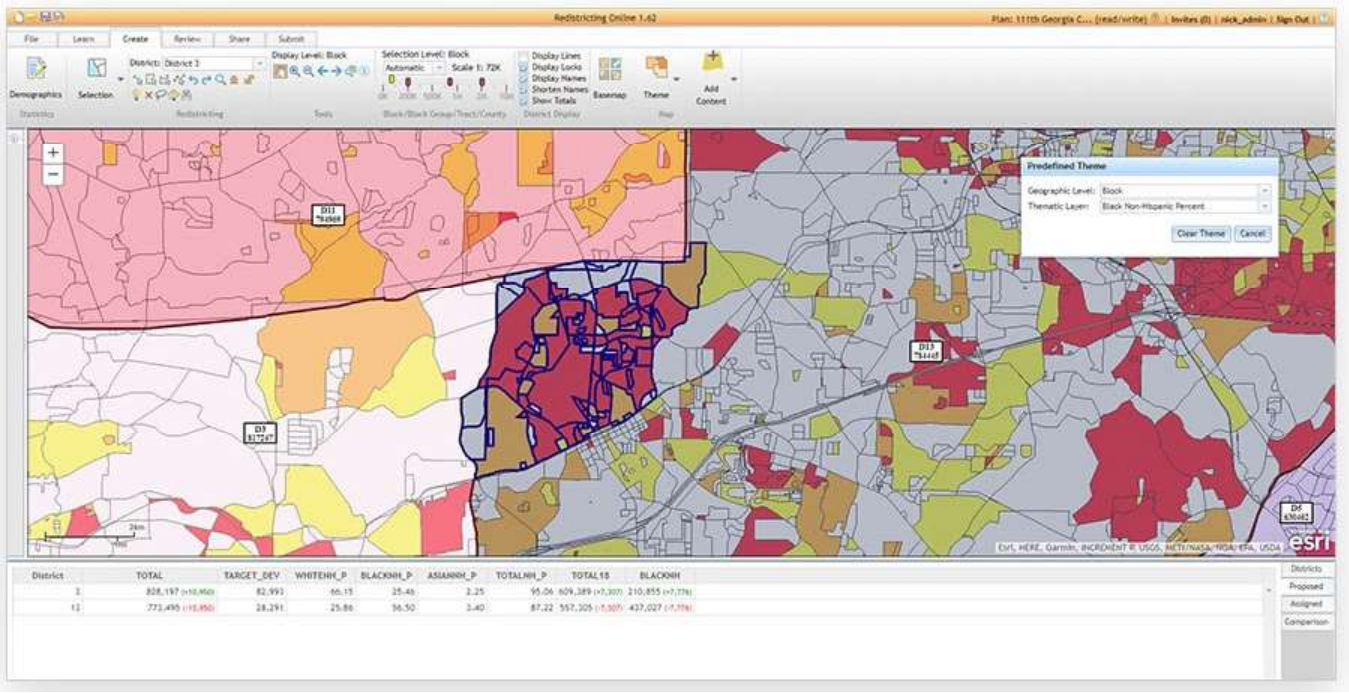
Douglas Johnson — 818 254 1221
(Print name) (Fax#)

President — 95-3388237
(Print title) (Federal Taxpayer ID Number)

5-16-2021
(Date)

END OF SECTION X

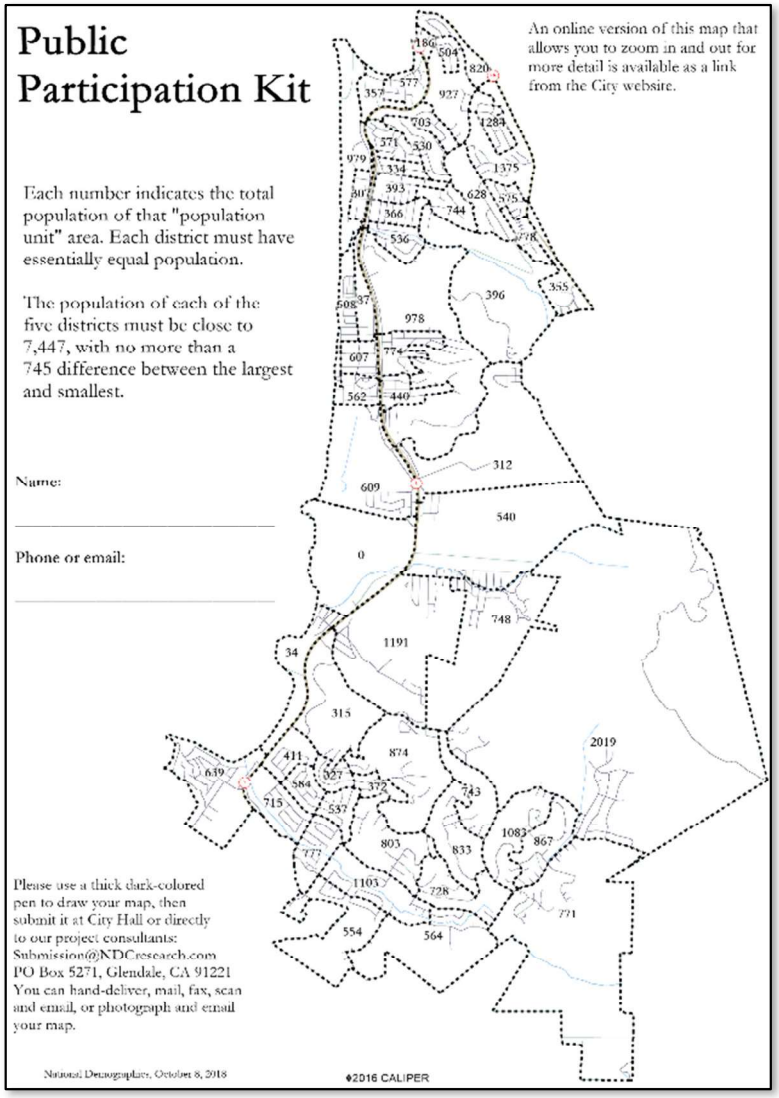
The other primary public mapping tool currently on the market is ESRI's online districting tool. While easy to use, the ESRI product costs significantly more. As a result, traditionally only the largest jurisdictions have been able to afford it.



When it is time to start the project, NDC will work with each interested client to determine which, if any, online mapping tool best meets the goals and budget of the jurisdiction.

Paper- and Excel-based Public Mapping Tools

While online mapping tools are very popular, NDC never forgets those residents who do not have internet access or who simply prefer to not drawing maps online.



At no cost with every online mapping tool, and as a separate option for jurisdictions that for budget or other reasons do not include an online mapping tool, NDC offers our "Public Participation Kit." Each "Kit" includes two formats.

The first, and most simple, Kit is a one-page map showing streets, city borders, and population counts for NDC-created "Population Unit" geographic areas. Residents draw the map they wish to propose and add up the population counts by hand until they get the right population count in each district. All of the directions needed are right on the single-page form. Examples of these tools, from our work for the City of Lake Forest, are available here: https://drawlf.org/draw-a-map/.

The second form of offline mapping tool is for those residents who do not want to deal with an online mapping tool, but who are already comfortable with Microsoft Excel. NDC provides a similar simple one-page map of those same "Population Units," but this time the map shows the Unit ID number rather than the population count in that Unit. Residents then enter their preferred district assignment for each Population Unit into the pre-formatted Excel spreadsheet (also available on the Lake Forest website), and Excel calculates the total population and demographics of each District. When the resident has the map the way they like it, they simple email in the Excel file.

Conclusion

Since its founding NDC has been the nation's preeminent company devoted to local election systems, and partnered with Federal Compliance Strategies we bring an unmatched level of expertise and experience to our clients:

- NDC has more experience in the field of municipal political election systems than any other company.
- NDC's experience and expertise has been recognized by our hundreds of clients, the California League of Cities, the California School Board Association, the California Special District Association, and the National Conference of State Legislatures.
- NDC, founded in 1979, has a demonstrated record of financial solvency.
- NDC's hardware and software resources were specially designed and acquired for districting and redistricting purposes.
- NDC's highly respected personnel have impeccable credentials in each aspect of the districting and redistricting processes.
- NDC's suggested approach has been tested in many jurisdictions.
- Any NDC client can be contacted for testimonials and reference.
- NDC has demonstrated experience over many years in working with the press and media on local election system issues.
- Neither the Justice Department nor any Court has ever rejected any of over 350 local government maps adopted through NDC-managed districting and redistricting projects.

NDC takes pride in tailoring each project to the needs and goals of each individual client. NDC is open to any feedback, concerns, requests, or changes regarding this proposal.

NDC looks forward to the opportunity to work with you on this project.

Appendix

Resumes of NDC President Dr. Douglas Johnson, Vice President Dr. Justin Levitt, Senior Consultant Dr. Jeff Tilton and Consultant Ivy Beller Sakansi are attached, along with Bruce Adelson of Federal Compliance Consulting.

After the resumes is a summary of optional redsitricting-related communications services available from Tripepi Smith.

A client list and resumes of all NDC team members are available at www.ndcresearch.com/about-us/.

Douglas Mark Johnson

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Glendale, CA 91221
djohnson@NDCresearch.com

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office: (909) 624-1442
fax: (818) 254-1221

Employment

President, National Demographics Corporation, 2006 – present.
Senior Analyst, National Demographics Corporation, 2001 – 2006.
Fellow, Rose Institute of State and Local Government, 2001 – present.
Project Manager and Senior Manager at three internet startup companies, 1999 - 2001.
U.S. Representative Stephen Horn, Legislative Director and System Manager. 1993 – 1997.
Coro Foundation, Fellowship in Public Affairs. 1992 – 1993.
Rose Institute for State and Local Government, Student Manager. 1989 – 1992.

Education

Claremont Graduate University, Ph.D. in Political Science, 2015. Dissertation: "Independent Redistricting Commissions: Hopes and Lessons Learned."
UCLA Anderson Graduate School of Management, MBA, 1999.
Claremont McKenna College, BA in Government (Political Science), 1992.

Academic Honors

Graduated Cum Laude from Claremont McKenna College.
Phi Beta Kappa. Philip Roland Prize for Excellence in Public Policy.

Publications and Articles

Christian Science Monitor "Let the public help draw voting districts," October 25, 2013.
New York Times, "The Case for Open Primaries," February 19, 2009.
Los Angeles Times Opinion Articles:
"A neighbor's help on redistricting" June 24, 2007.
"A Trojan horse primary for the GOP" February 25, 2007.
"Where a porn palace stood" (article on redevelopment), July 30, 2006.
Fresno Bee Opinion Article: "The Poison Handshake" June 15, 2004.
Redistricting in America. Rose Institute of State and Local Government, 2010.
Restoring the Competitive Edge: California's Need for Redistricting Reform and the Likely Impact of Proposition 77. Rose Institute of State and Local Government, 2005.
"Competitive Districts in California" Rose Institute of State and Local Government, 2005.
Latinos and Redistricting: "Californios For Fair Representation" and California Redistricting in the 1980s. Rose Institute of State and Local Government, 1991.

Speaker or Panelist

California School Board Association Annual Education Conference panelist: "The California Voting Rights Act: What Board Members Must Know." December 4, 2015.
Associated Cities of California – Orange County, Keynote Speaker, Newly Elected Officials' Reception and Dinner, "The California Voting Rights Act," January 29, 2015.
California League of Cities, City Manager Department, 2015 Department Meeting: "Opportunity to Engage Residents: The California Voting Rights Act." January 29, 2015.
California League of Cities, City Clerk Department, 2014 Annual Meeting: "Whose Line Is It Anyway: Making the transition from at-large to by-district elections." September 3, 2014.
National Conference of State Legislatures, Redistricting and Elections Standing Committee: 2007 Spring Forum, "The Arizona Independent Redistricting Commissions' experiences with the first-ever independent redistricting."
National Conference of State Legislatures, Redistricting and Elections Standing Committee: 2008 Spring Forum, "Communities of Interest In Redistricting: A Practical Guide."

Douglas Mark Johnson

National Conference of State Legislatures, Redistricting and Elections Standing Committee: 2009 Fall Forum, "The Key to Successful Redistricting."

National Conference of State Legislatures, Redistricting and Elections Standing Committee: 2010 Spring Forum, "Communities of Interest in Redistricting: A key to drawing 2011 plans (and for their defense)."

National Conference of State Legislatures, Redistricting and Elections Standing Committee: 2011 Winter Forum, "Citizen Voting Age Data from a line-drawer's viewpoint."

Luncheon Keynote Speaker, Santa Barbara's Channel Cities Club, "California's next experiment: independent, public redistricting," January 18, 2011.

Annual Conference, Arizona League of Cities and Towns, Presenter at "Redistricting Law and the Voting Rights Act: What It Means for Your City or Town in 2011," August 25, 2010.

Redistricting, The 2010 Census, and Your Budget, Sponsored by the Rose Institute of State and Local Government, California League of Cities, October 15, 2009.

Arizona Election Law 2010 Continuing Legal Education Conference, "Communities of interest and technology in redistricting," sponsored by the Arizona State Bar Association, March 2010

California's New Independent Redistricting Commission, sponsored by the Irvine Foundation and the California Redistricting Collaborative, December 15, 2009

Tribal Association of Sovereign Indian Nations (TASIN) Legislative Day 2009, "The 2010 Census and 2011 Redistricting in California," December 2, 2009.

California School Board Association, "Litigation Issues and the California Voting Rights Act," December 4, 2009.

California Latino School Boards Association, "Introduction to the California Voting Rights Act," August 20, 2009.

Building a National Reform Movement, Salt Lake City, Utah, 2006, conference on redistricting reform hosted by the League of Women Voters, Campaign Legal Center, and The Council for Excellence in Government

Texas Tech University, "A Symposium on Redistricting," May, 2006

California League of Cities, "Introduction to the California Voting Rights Act."

Voices of Reform, a project of the Commonwealth Club of San Francisco: multiple forums on redistricting and / or term limits, 2006 – 2007

Classroom speaker at Pepperdine University, the University of La Verne, Pomona College and Claremont McKenna College

Justin Mark Levitt

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office: (818) 254-1221
fax: (818) 254-1221

Employment

Vice-President, National Demographics Corporation, 2012 – present.
Senior Analyst, National Demographics Corporation, 2003 – 2011.
Instructor in Political Science, University of California, San Diego, 2012 – present.
Graduate Research Fellow, Center for US-Mexico Studies, 2010 – present.
Graduate Research Fellow, University of California, San Diego, 2008 – 2010 and 2013 – 2014.
Jesse M. Unruh California Assembly Fellow. 2006 – 2007.
Rose Institute for State and Local Government, Student Manager. 2005 – 2006.

Education

University of California, San Diego, Ph.D. Political Science, 2016. Dissertation title: "The Impact of Geographic Patterns on Tradeoffs in Redistricting."
Claremont McKenna College, BA in Philosophy, Politics and Economics (PPE), 2006.

Academic Honors

California Studies Fellow, University of California, San Diego, 2007 – 2009
Graduated Cum Laude from Claremont McKenna College.

Publications and Conference Presentations

Settle, Jamie, Robert Bond, and Justin Levitt. 2011. "The Social Origins of Adult Political Behavior." *American Politics Research*: 39 (2). 239-263

Miller, Kenneth and Justin Levitt. 2007. "The San Joaquin Valley." In The New Political Geography of California. Eds. Frederick Douzet, Thad Kousser, and Kenneth Miller. Berkeley: Institute of Government Studies.

"The Political Geography of Tradeoffs in Redistricting" Paper presented at the State Politics and Policy Conference, Iowa City, IA, 2013

Getting What You Want: A Bargaining Approach to Fair Division in Redistricting. Paper presented at the "Challenging Urban Borders : the geopolitics of immigration and segregation" workshop, Berkeley, CA, 2013 and the State Politics and Policy Conference, Houston, TX, 2012

"An Atlas of Public Health in Mexico" (with Alberto Diaz Cayeros). Paper presented at the Hewlett Foundation Conference on Public Health, Mexico City, DF. 2012

"Remoteness and the Territoriality of Public Health" (with Alberto Diaz Cayeros).
Paper presented at the American Political Science Association conference, Seattle, WA. 2011

"Initiatives as revealed preferences"
Paper presented at the American Political Science Association conference, Seattle, WA. 2011

"No Se Puede: Latino Political Incorporation in Phoenix.". Paper Presented at the New Political Geography of California conference, Berkeley, CA., 2009

"Political Change in the Central Valley". Paper Presented at the Western Political Science Association conference, Las Vegas, NV.,2007

Working Papers

Hill, Seth, Thad Kousser, Alex Hughes, and Justin Levitt. ND. "*How Competitiveness Shapes Infrequent Primary Voters Response to Receiving a GOTV Mailer.*"

Diaz-Cayeros, Alberto and Justin Levitt. ND. "*Remoteness and the Territoriality of Public Health.*"

Levitt, Justin. ND. "*Getting What You Want: A Bargaining Approach to Fair Division in Commission-led Redistricting.*"

Teaching Experience

California State University, Long Beach, Department of Political Science

Adjunct Professor—POSC 327 (Urban Politics)	Spring 2016-Present
Adjunct Professor—POSC 229 (Cases in Policy Analysis)	Present
Adjunct Professor—POSC 412 (Law and Social Change)	Spring 2016-Present
Adjunct Professor—POSC 399 (California Politics Short Course)	Present

University of California, San Diego, Department of Political Science

Co-Instructor—UPS 170 (Regional Governance Reconsidered)	Spring 2015
Instructor—Poli 100A (The Presidency)	Fall 2014
Instructor—Poli 160AA (Introduction to Public Policy Analysis)	Fall 2013
Instructor—Poli 10 (Introduction to American Politics)	Summer 2013

Jeff S. Tilton Sr., Ed.D.

Employment

Senior Consultant, National Demographic Corporation, 2019 – present
Deputy Superintendent (retired), New Jerusalem Elementary School District, 2012-2019
Director, Educational Programs, Janus Youth Programs, Inc., 2011-2012
Senior Account Executive, Northwest Evaluation Association, 2004-2011 Director II, Stanislaus County Office of Education, 2000-2004
Administrator, Cotati-Rohnert Park Unified School District, 1999-2000
Chief Academic Officer, Delhi Unified School District, 1997-1999
Director I, San Joaquin County Office of Education, 1992-1997
Teacher/Coach, Manteca Unified School District, 1987-1992

Adjunct Faculty Experience

Chapman University
Grand Canyon University
Portland State University
University of San Diego

Education

University of the Pacific, Ed.D., Educational Administration/Curriculum and Instruction 1998. Dissertation: "A Case Study of the Arizona Boys Ranch Educational Program"

University of LaVerne, M.Ed., Educational Leadership, 1989 California State University, Stanislaus, B.A., English, 1986

Associated Education

Association of California School Administrators' Personnel Administrators Academy, 2017-2018
Association of California School Administrators' Superintendents Academy, 2013-2014
Association of California School Administrators' Personnel Administrators Academy, 1994-1995
California School Leadership Academy, 1990-1992

Speaker or Panelist

Association of California School Administrators Regional Conference, Monterey, California Association of Personalized Learning Schools & Services State Conference, Sacramento, California California Charter School Development Center Leadership Conference, San Diego, California California Charter Schools Organization State Conference, Pasadena, California
California Charter Schools Organization State Conference, Sacramento, California California League of Middle Schools State Conference, San Diego, California
California Network of Educational Charters State Conference, San Francisco, California Escalon Kiwanis Club, Escalon, California
Juvenile Court, Community and Alternative School Administrators of California State Conference, San Francisco, CA Juvenile Court, Community and Alternative School Administrators of California Regional Conference, Visalia, CA Juvenile Court, Community and Alternative School Administrators of California State Conference, San Diego, CA KIPP National Summit, Las Vegas, Nevada
Lathrop Sunrise Rotary Club, Lathrop, California
Latina United Republic Women Federation, Stockton, California Lodi Sunrise Rotary Club, Lodi, California
Manteca Morning Rotary Club, Manteca, California
Missouri Charter Public School Association State Conference, Lake Ozark, Missouri Modesto Kiwanis Club, Modesto, California

Modesto Rotary Club, Modesto, California
National Association of Charter School Authorizers National Conference, Salt Lake City, Utah
National League of Middle Schools Conference, Maui, Hawaii North Modesto Kiwanis Club, Modesto, California
North Stockton Rotary Club, Stockton, California Ripon Rotary Club, Ripon, California
Stockton Pacific Rotary Club, Stockton, California Stockton Republic Women Federation, Stockton,California Stockton Rotary Club, Stockton, California
The Association of Career and College Readiness Organizations State Conference, Palm Desert, California Tracy Rotary Club, Tracy, California
Tracy Tank Town Lions Club, Tracy, California

Redistricting Projects

Coalinga Huron School District
Campbell City
Campbell Union
Campbell Union High
Fallbrook Regional Health
Huntington Beach City Schools
Joshua Basin Water
Lincoln City
Marina City
Moreland School District
Santa Barbara County Citizens' Independent Redistricting Commission
Valley Recreation
Westminster City

Ivy J. Beller Sakansky

Employment

Consultant, National Demographics Corporation, 2020 – present

I.J. Sakanski, LLC, Independent Contractor, 1992 – 2016

Sample of Projects:
City of Phoenix City Council Redistricting, 2001 – 2002, 2011
Election Database Manager consultant to Research Advisory Services, 2010 – 2011
Geographic Research & Analysis consultant to Research Advisory Services, 2011
Election Database Manager consultant to Research Advisory Services, 2001 – 2002
Washington School District, Contract Housing & Land Use Analyst, 1998 – 2000

U.S. Forest Service, GIS Specialist/Natural Resource Management Intern, Tonto National Forest Headquarters (Arizona), 2009 – 2010

Beller, Inc., co-owner of family businesses, Maricopa County, AZ, 1991 – 2007

Education

Advanced Coursework in Geographical Sciences, Arizona State University, 2009 – 2010
Arizona State University, Master of Arts in Geographical Sciences, 1981
Arizona State University, Bachelor of Science in Outdoor Recreation Planning, 1979

Redistricting Projects

1. Phoenix, Arizona
2. Globe, Arizona
3. Gila County
4. Graham County
5. Greenlee County
6. Mohave County
7. Navajo County
8. Pinal County
9. Yavapai County

Federal Compliance Consulting LLC
11808 Becket Street
Potomac, Maryland 20854
301-762-5272
240-536-9192 fax

Bruce L. Adelson :
CEO/Attorney at Law
badelson1@comcast.net
badelsonfcc@verizon.net

Redistricting, Voting, and Election Law Expertise

Company Qualifications and Expertise

Bruce Adelson has worked and consulted with Arizona counties, cities, towns, and school districts since 2000, as a U.S. Department of Justice (DOJ) Senior Trial Attorney and as a consultant for the County's 2010 redistricting.

He is a former Senior Trial Attorney for DOJ's Civil Rights Division Voting Section. During Bruce's DOJ career, the Attorney General of the United States twice recognized Bruce's federal voting and election work, including redistricting, with "Special Achievement" Awards.

At DOJ, he was the lead attorney responsible for Arizona. Bruce was the DOJ Arizona team leader for redistricting review during the 2000 redistricting cycle. His team issued the Voting Rights Act Section 5 objection to Arizona's legislative redistricting in 2002. During his DOJ career, Bruce conducted Voting Rights Act analyses and Section 5 preclearance reviews of Arizona redistricting plans for all cities, towns, and counties, the state, and special districts as well as reviews and analyzes for dozens of redistricting plans from multiple states across the United States.

During Bruce's DOJ career, his responsibilities included serving as:

- Lead Attorney for election investigation, observation, and monitoring in New York City and various municipalities and counties in Illinois, Mississippi, Georgia, California, Pennsylvania, Arizona, Texas, and New Mexico. He led DOJ's New York City election team on 9/11.
- Lead Attorney monitoring and investigating how cities, counties, and states across the country conduct and administer their elections and comply with federal law and election governance best practices, especially the Voting Rights Act. This involved working closely with election officials at all levels of government and initiating enforcement as needed, such as against the State of Michigan pursuant to UOCAVA.
- DOJ's Team Leader for the Department's Nationwide Voting Rights Complaint Hotline on Election Day;
- Team Leader for DOJ's review of Arizona's 2002 and 2003 legislative redistricting plans, Arizona's 2002 Congressional redistricting plan, New York City's 2003 City Council

redistricting plan, Phoenix's 2002 City Council redistricting plan, dozens of redistricting plans for counties, parishes, special districts, and cities in Texas, Alabama, Arizona, Mississippi, New York, Louisiana, and South Carolina, and many other statewide and local voting changes across the United States.

- Lead Attorney for outreach, enforcement, and investigation of Voting Rights Act Minority Language Election Information programs in Spanish, Vietnamese, Tagalog, and Native American languages in Arizona, New Mexico, New York, Nevada, and Texas.

Today, Bruce is CEO of Federal Compliance Consulting LLC and provides redistricting, federal voting, and election law consulting and litigation services to local and state governments. Bruce has consulted with secretaries of state, state election directors, local jurisdictions and state governments, Native American tribal governments, and public interest organizations concerning federal voting and election law.

Bruce is the consulting and/or testifying expert in federal and state lawsuits alleging violations of multiple federal laws, such as The Voting Rights Act of 1965 and Americans with Disabilities Act. He has been a Guest Voting and Election Law Speaker and Lecturer at Auburn University, Harvard University, and University of Baltimore School of Law.

Bruce has 21 years of redistricting experience, including private practice consultation and litigation and enforcement during his career with the U.S. Department of Justice. Bruce and Federal Compliance Consulting have been in business for 15 years.

Redistricting Work Post-DOJ

During the 2010 redistricting cycle, Bruce consulted with Arizona municipalities, counties, public school, and community college districts on their redistricting and with states and other jurisdictions from Alaska to Maryland. He also assisted his clients with outreach, community meetings, and answering community questions about the redistricting process.

In his post-DOJ career, all of Bruce's Section 5 covered redistricting clients received DOJ Section 5 preclearance on first submission with no requests for additional information or other DOJ rejections. All court challenges to redistricting plans that Bruce prepared and/or analyzed were dismissed, such as the challenge to Arizona's statewide legislative redistricting plan by a three-judge court and the U.S. Supreme Court. All of Bruce's redistricting clients successfully implemented their redistricting plans.

Bruce is the Voting Rights Act expert for the Arizona Independent Redistricting Commission (AIRC). As the Commission's Voting Rights Act expert during the 2010 redistricting cycle, Bruce provided advice and guidance to the Commission, Commissioners, and Commission counsel concerning redistricting, including legal guidance pursuant to Voting Rights Act Sections 2, 5, and 203 and the U.S. Constitution. The U.S. Department of Justice precleared Arizona's legislative redistricting plans on first Section 5 submission for the first time in over 20 years.

Bruce was the AIRC's consulting expert in federal litigation challenging the Commission's legislative redistricting plan before a three-judge federal court and on direct appeal to the U.S. Supreme Court. The three-judge court upheld the Commission's redistricting plan and endorsed Bruce's advice to the Commission *Harris v. AIRC*, 993 F.Supp.2d 1042 (D. Ariz., 2014). In April 2016, the U.S. Supreme Court unanimously upheld the plan's legality 9-0. In part, the Court held that when a state or local government draws a redistricting plan that keeps population deviations below 10%, the map is presumptively legal when "the population deviations were primarily a result of good-faith efforts to comply with the Voting Rights Act."

Bruce has given keynote voting & redistricting presentations to many organizations such as the National Association of State Election Directors, National Conference of State Legislatures, National Association of Counties, The Arizona League of Cities and Towns, Arizona State Bar, Arizona Attorney General, Arizona Secretary of State; Maricopa County; Texas District and County Attorneys Association; New Mexico County Clerks Association; Washington State Association of County Auditors; Tri-State (AZ, NM, UT) and Tri-County (Apache, Navajo, Coconino) Native American Language Election Information Conferences; Gila County's American Indian Voter Outreach Summit; and the Inter-Tribal Council of Nevada.

- Nevada Secretary of State –Comprehensive federal voting and election law consultation, including NVRA, Voting Rights Act, HAVA, and UOCAVA, redistricting, observation of federal primary election polling place practices in several Nevada counties, and best practices recommendations.

- Arizona Secretary of State – various provisions of the Voting Rights Act, including Section 203, Section 11(b) voter intimidation, and Sections 5 and 2 for redistricting.

- Alaska Lieutenant Governor and Director of Elections – Voting Rights Act Section 203 Alaska Native language requirements, and Voting Rights Act Sections 2 and 5 concerning redistricting.

Redistricting Consultations:

Navajo County, Arizona
State of Arizona
City of Globe, Arizona
City of Phoenix, Arizona
City of Los Angeles, California
New York City, New York
Allegan County, Michigan
Yavapai County, Arizona
Pinal County, Arizona
Gila County, Arizona
Mohave County, Arizona

Greenlee County, Arizona
Graham County, Arizona
La Paz County, Arizona
Western Arizona Vocational Education District
Gila Community College, Arizona
Ford County, Kansas
Multiple confidential jurisdictions – states, counties, and municipalities

Bruce is consulting with jurisdictions for their 2020 redistricting, his third decennial Census redistricting cycle.



Redistricting with Tripepi Smith

By-district elections are becoming increasingly common in local government agencies throughout California. The California Voting Rights Act, passed in 2001, was the impetus for much of this change. Today, more than 300 local government agencies have districts of some form, and the number continues to rise as local government agencies are compelled to settle lawsuits or avoid legal battles.

About Tripepi Smith and Our Redistricting Team

Tripepi Smith is a team of 23 communications experts—robust enough to offer experienced and effective professionals for the job, yet small enough to be nimble and responsive. Tripepi Smith offers a spectrum of skills that allows us to match the appropriate resource to the task at hand, letting us execute faster and reduce engagement costs. These resources vary by both years of experience and core hard skills (public policy versus graphic design versus videography versus writing versus social media, for example).

Tripepi Smith is experienced in helping local governments execute community education and outreach initiatives for district formation and redistricting processes. We have worked extensively with agencies on their district public forums, created districting information portals and organized a conference on local redistricting for nearly 200 local government practitioners.

The combined talent of our policy experts, in-house design team and videographers delivers professional communications that make our clients proud and better inform the public about this complex process. Tripepi Smith has the skills and experience to help local governments implement successful outreach strategies for district formation and redistricting outreach. The team's skills and certifications range from excellent written communication skills to Tableau for data analytics to Google Ads to event planning and project management.

Tripepi Smith Redistricting Services

California State law has identified outreach as a core component of the redistricting process. The Tripepi Smith team can provide jurisdictions with some or all of the following services:

Project Management
Tripepi Smith can facilitate all project calls for this engagement and create a living agenda to manage the efforts and timing between the demographer, legal counsel, City and Tripepi Smith from the beginning of the outreach process to the map adoption.

In-Person Meetings
If possible with COVID-19 limitations, Tripepi Smith can coordinate with City staff to identify venues and dates to host in-person workshops and meetings to seek public feedback on new district lines and provide information on map-drawing tools. Tripepi Smith can devise an agenda, facilitate discussions, document community feedback and promote positive engagement around the process. Additionally, Tripepi Smith can provide graphic design services to create bilingual PowerPoint decks for the presentations and flyers for attendees. We can coordinate simultaneous translation with local partners.

Tripepi Smith can also facilitate recording the meetings and provide videos, with any relevant slides interspersed and closed captions. These videos would likely fulfill the requirement to post a summary of the meeting.

Virtual Meetings
Tripepi Smith can also coordinate and facilitate virtual meetings and workshops to seek public feedback and educate residents on map-drawing tools. Tripepi Smith can also work with City staff to promote the meetings and to leverage our identified outreach and advertising work to promote meeting participation. Our videographers can process recordings of the meetings to fulfill posting requirements.

Press Release/News Article for Website
Tripepi Smith can draft press releases on the jurisdiction's redistricting efforts and manage media relations to promote each step in the redistricting process reaches local and broad-reaching media.

Creation and Updates to Bilingual Redistricting Website
Tripepi Smith can create and maintain a bilingual redistricting website or subpages in coordination with the demographer. The website/pages would include resources for the community, including all required information about meetings and draft maps.

Social Media Support
Tripepi Smith can create bilingual copy and graphics for social media posts about the redistricting process, as well as boost posts (paid advertising) on Facebook and Instagram to help spread the word about meetings and solicit public commentary.

Get in touch with Tripepi Smith President Ryder Todd Smith (626.536.2173 | Ryder@TripepiSmith.com) to start planning.

EXHIBIT C

TO

PROFESSIONAL SERVICES AGREEMENT

BETWEEN

THE CITY OF BUCKEYE

AND

NATIONAL DEMOGRAPHICS INC.

[Fee Schedule]

See following pages.

A Proposal to
Buckeye
for Redistricting Services
RFP No. 2021028

Fee Proposal

By National Demographics Corporation

Douglas Johnson, President

In partnership with Bruce Adelson of Federal Compliance Consulting

May 16, 2021

Fee Proposal

Federal Compliance Consulting Pricing

Bruce Adelson's professional billing rate is $325.00 per hour for all services described in this proposal.

Bruce Adelson's travel expenses for any in-person meetings and consultations will vary, depending upon length of stay and variable travel costs, such as airfare. Reimbursable travel expenses include airfare from Washington, D.C., hotel accommodations, per diem, and rental car expenses. We estimate that based on current prices and fares, the travel expenses for a five-day trip to Buckeye will be approximately $1,800.00, with Bruce's professional working time billed at $325.00 per hour in addition to his travel expenses.

NDC Pricing

1. **Basic Project Elements** (covers everything except for per-meeting and optional expenses): ..... $ 37,500

2. **Per-Meeting expense:**

- In-person attendance, per meeting ..... $ 2,750
- Virtual (telephonic, Zoom, etc.) attendance, per meeting..... $ 1,250

For each meeting, NDC will prepare meeting materials, including presentation materials and maps; present and explain key concepts, including mandatory and traditional redistricting criteria and "communities of interest"; facilitate conversations; answer questions; and gather feedback on existing and proposed boundaries.

Per-meeting prices include all travel and other anticipated meeting-related expenses. Telephone calls to answer questions, discuss project status, and other standard project management tasks do not count as meetings and do not result in any charge.

3. **Optional Project Elements:**

a) Polarized Voting Analysis (per election contest analyzed) ..... $ 2,500

b) Project website ..... $ 5,500

c) Public mapping tool options:

- ESRI Redistricting ..... *
- Caliper-centered system including all elements below ..... $ 14,500
  - "Maptitude Online Redistricting" (MOR)
  - Tuft University's "DistrictR" (a simple neighborhood mapping tool)
  - Public Participation Kit paper- and Excel-based mapping tool

d) DistrictR without MOR or ESRI ..... $ 6,500
e) Public Participation Kit mapping tool without MOR or ESRI..... $ 5,500

f) Working with independent or advisory redistricting commission ..... no additional charge

g) Additional outreach assistance..... separately contracted

* ESRI prices its software on a jurisdiction-by-jurisdiction basis. The lowest prices we have seen are $80,000 and up. If that is an option the jurisdiction would like to pursue, NDC will request a specific price for your jurisdiction from ESRI.

Other Potential Project-Related Expenses:

The most common additional project expenses would be any site or staff costs for conducting the community forums and the cost of printing or copying paper copies of the "Public Participation Kit." In NDC's experience, most participants will download and print the Kits in their own homes or offices.

Additional Analysis

NDC is happy to assist with any additional analysis that the client requests at our standard hourly rates:

Principal (Dr. Douglas Johnson)..... $300 per hour
Vice President (Justin Levitt)..... $250 per hour
Senior Consultant..... $200 per hour
Consultant..... $150 per hour
Analyst / Clerical..... $50 per hour

Dr. Johnson is also available for deposition and/or testimony work if needed, at $350 per hour.

Requested Payment terms:

NDC requests that one-half of the "Basic Project Elements" fee be paid at the start of the project; that optional project elements be paid as those project elements are delivered; the balance of the project costs be paid at the conclusion of the project.

FCC bills by the hour and typically invoices monthly.

SECTION IX: FEE PROPOSAL

1. Rates for Services. Provide a list of all tasks for all services

2. Extra or Incidental Costs. Provide any and all extra or incidental costs that may be associated with the contract. This category includes reimbursable and/or subcontracted costs.

3. Travel and Per Diem. Provide rates for travel and per diem. Travel and per diem rates should not exceed the current applicable guidelines for Federal and/or State rates entities for Travel.

	Item No	Description	Cost	
*	1	Meet with City Council to identify their issues.	$ 2750/1250	Per meeting day
	2	Developing the criteria and adopting the redistricting process	$ Part of "Basic	
	3	Data Collection (and database construction)	$ Project	Elements" $37,500
*	4	Conduct Community and other group meetings (no FCC)	$ 2750/1250	Per meeting day
	5	Prepare the redistricting option maps	~~+FCC hourly~~	
		a. Map overlay	$ Part of "Basic Project Elements"	
		b. map depicting racial/ethnic composition		
		c. table depicting voting information		
*	6	Present all viable option maps	$ 2750/1250 +FCC hourly	Per meeting day
	7	Present the redistricting option maps to the City Council		
	8	Review recommendations for revisions and modify approved changes	$ Part of "Basic Project Elements"	
*	9	Presentation to the City Council	$ ~~2750~~/1250+	Per meeting day
*	10	Present the accepted redistricting option maps at public hearings (no FCC)	$ ~~+FCC hourly~~	Per meeting day
	11	Submittal of redistricting map approved by the City Council	$ Part of "Basic Proj. Elements"	
	12	Extra or Incidental costs	$ " "	" "
	13	Travel and Per Diem	$ Only for FCC. Approx. $1800 for a 5-day visit	
		(assuming live in-person, not virtual, and 3-hour mtng) **(assuming 1 meeting per * Item) Subtotal:**		
		Tax Rate 0 **% Taxes:**	$93,475	
		Total:	$93,475	
		Alternative Total with 3 or more public hearings:	$106,450	
	Alternative	Public Participation Kit (paper & Excel version)	$5500	(or incl. with online tool)
	Alternative	Online Redistricting Software	$14500	
	Alternative	Online interactive project maps atlas	$ incl. in Basic Elements	
	Alternative	Translation of projects materials	$ 125 per page	
	Alternative	Media Briefing	$ 2750/1250+FCC hourly	Per meeting day
	Alternative	Latino-focused outreach meeting	$ 2750/1250 + FCC hourly	Per meeting day
	Alternative	Additional "from scratch" plan development	$ no charge	Per plan

live/virtual +FCC hourly

END OF SECTION IX

See text for more detailed description of pricing.

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.O. Miller Road between Lower Buckeye Road to Pima Street Roadway Widening Final Design.
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 3
STAFF LIAISON: Chris Williams, Construction and Contracting Manager, cwilliams@buckeyeaz.gov, (623) 349-6225	
DEPARTMENT: Construction and Contracting	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on Task Order No. 16 (Contract 2016-020-032) between the City of Buckeye, an Arizona municipal corporation, and Kimley-Horn and Associates, Inc., an Arizona corporation, to provide final design services for roadway widening improvements to Miller Road between Lower Buckeye Road to Pima Street; and authorizing the Mayor to execute and deliver said Task Order on behalf of the City.

RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

ADDITIONAL RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:
As part of the Capital Improvement Program, Kimley-Horn and Associates have been selected to develop the final design for the ultimate 7-lane widening of Miller Road between Lower Buckeye Road and Pima Street. This ultimate layout will take into account the west half street widening currently being designed by HilgartWilson. This final design will consist of the development of 100% level design plans detailing the design as well as coordinating utility impacts, coordinating with developers, final design challenges, and construction costs.

BENEFITS:
Miller Road is generally one travel lane in each direction, with intermittent widening to provide left/right turns into developments. Miller Road does not currently have curb, gutter, or sidewalk within the project limits, with the exception of a short stretch of curb in front of the Chevron gas station. The purpose of this project is to develop the final design for the ultimate 7-lane widening of Miller Road between Lower Buckeye Road and Pima Street. This ultimate layout will take into account the west half street widening.

FUTURE ACTION:
NONE54

FINANCIAL IMPACT STATEMENT:
Task Order not to exceed $403,936.43.

CURRENT FISCAL YEAR TOTAL COST:
$403,936.43

FY 2021-22 Budget approved by Council equals $1,458,651

BUDGETED:
Yes

FISCAL YEAR:
FY2022

FUND/DEPARTMENT:
50213170-543137

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
CIP Book - CIP 105260 Miller Road Expansion - Durango to Lower Buckeye Road.jpg
Kimley-Horn and Associates Inc. TO16.pdf

10
W DURANGO ST
S MILLER RD
S 249TH AVE
S 247TH AVE
W LOWER BUCKEYE RD
N

1190

CITY OF BUCKEYE
ON-CALL CONSULTING FOR
ENGINEERING AND ARCHITECTURAL SERVICES
CONTRACT 2016-020-032

KIMLEY-HORN AND ASSOCIATES, INC.

TASK ORDER #16
MILLER ROAD- LOWER BUCKEYE ROAD TO PIMA STREET
ROADWAY WIDENING FINAL DESIGN

In accordance with the On-Call Contract between the City of Buckeye (the "City") and Kimley-Horn and Associates, Inc. ("Consultant"), dated the 7th day of March, 2017, the Consultant will perform the following Scope of Services as detailed in Article 1, subject and pursuant to the terms and conditions of the On-Call Contract for Engineering and Architectural Services.

ARTICLE 1
SCOPE OF SERVICES

Engineer will provide final design services for roadway widening at Miller Road between Lower Buckeye Road and Pima Street in Buckeye, AZ more particularly set forth in Exhibit A attached hereto.

ARTICLE 2
SCHEDULE OF COMPLETION OF SERVICES

The Consultant shall commence work immediately upon issuance of the Notice to Proceed and complete the services and deliverables within **199 calendar days**, or unless terminated as otherwise provided pursuant to the terms and conditions of the Consulting Services Contract for On-Call Engineering Services.

ARTICLE 3
FEE BREAKDOWN

Total cost to complete the services under this Task Order as identified in Article 1 is an amount Not to Exceed **Four Hundred Three Thousand Nine Hundred Thirty Six Dollars and Forty Three Cents ($403,936.43),** pursuant to Exhibit A.

This Task Order No. 16 is subject to the terms and requirements of the Consultant Contract and may be cancelled pursuant to the provisions of Arizona Revised Statutes Section 38-511. If there is a discrepancy between the terms and conditions of the Contract and Scope of Work, the Contract supersedes the Scope of Work.

[SIGNATURE PAGE TO FOLLOW]

THEREFORE, the City of Buckeye by its Mayor and City Clerk have hereunto subscribed their names this _____.

CITY:
THE CITY OF BUCKEYE, ARIZONA
an Arizona municipal corporation

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda Aja, City Clerk

RECOMMENDED:

CA Williams
_____
Christopher A. Williams, Manager
Construction and Contracting Division

APPROVED AS TO FORM:

_____
City Attorney

CONSULTANT:
KIMLEY-HORN AND ASSOCIATES, INC.

_____
Brian Smalkoski, Vice President

Adobe Sign Transaction Number: CBJCHBCAABAARjmJzNkmSqXLsWJXRWuN7zV3Wm2zwiNO

EXHIBIT A

CONSULTANT'S PROPOSAL

Kimley»Horn

July 14, 2021

Mr. Kevin Hitchcock
Construction Project Management Division
City of Buckeye
530 Monroe Avenue
Buckeye, AZ 85326

Re: ***Miller Road: Lower Buckeye Road to Pima Street***
Roadway Widening Final Design Scope of Services

Dear Mr. Hitchcock:

Kimley-Horn and Associates, Inc. ("Kimley-Horn" or "Consultant") is pleased to submit this letter agreement (the "Agreement") to the City of Buckeye ("Client") for final design services providing roadway widening improvements to Miller Road between Lower Buckeye Road and Pima Street in Buckeye, AZ.

Project Understanding and Purpose

Miller Road between Lower Buckeye Road and Pima Street is located in the City of Buckeye, Arizona. In its current condition, Miller Road is generally one travel lane in each direction, with intermittent widening to provide left/right turns into developments. Miller Road does not currently have curb, gutter, or sidewalk within the project limits, with the exception of a short stretch of curb in front of the Chevron gas station and in front of the QuickTrip gas station.

At the Lower Buckeye Road intersection, Miller Road consists of a southbound right, left, and thru lane and a northbound acceptance lane. At the Durango Street intersection, Miller Road consists of a northbound right, left, and thru lane and a southbound acceptance lane. At the Pima Street intersection, Miller Road consists of a northbound left and two thru lanes, a southbound right and acceptance lane. All three intersections are currently signalized.

APS 69kV overhead power lines run north/south along the east side of Miller Road throughout the project limits. Overhead SRP/WAPA 230kV lines run east/west on the south side of Lower Buckeye Road.

Adjacent projects within the project limits are in various stages of development, and design coordination with these projects will be necessary to ensure the proposed improvements match with surrounding developments. A new development along the western frontage of Miller Road from Lower Buckeye Road to Durango Street is currently under design by HilgartWilson. This design will widen the west half of Miller Road, and construction of this development and half street widening is anticipated to be complete before the Miller Road Widening project is completed. Additionally, Miller Road Retail is currently developing the

northwest corner of Miller Road and Durango Street. The SpeedSmart Chevron gas station is currently designing their half street improvements to coincide with the ultimate layout. City of Buckeye currently has the Durango DCR designing improvements of the east leg of the Miller Road and Durango Street intersection. Finally, ADOT is implementing a new I-10 traffic interchange which will improve Miller Road to the ultimate 7-lane arterial section from I-10 south to Pima Street. Coordination with these projects will be necessary to ensure roadway improvements and alignments are in agreement.

A Basis of Design report was prepared for these improvements as a part of a previous contract.

The purpose of this project is to develop the final design for the ultimate 7-lane widening of Miller Road between Lower Buckeye Road and Pima Street. This ultimate layout will take into account the west half street widening currently being designed by HilgartWilson. This final design will consist of the development of 100% level design plans detailing the design as well as coordinating utility impacts, coordinating with developers, final design challenges, and construction costs.

Scope of Services

Kimley-Horn will provide the services specifically set forth below.

Project Management and Coordination

Task 1. – Project Management and Meetings

Project management includes contract management and internal meetings with staff. This task consists of coordination and administration of the day-to-day operations of the project, including organizing and filing project data and communication files, responding to project correspondence including emails, performance of monthly budget updates, and schedule monitoring. This task also includes the management of sub-consultants, and interfacing and communication determined to be reasonably necessary to keep stakeholders informed.

Kimley-Horn will submit bi-weekly progress reports to the City's Project Manager summarizing tasks in progress, upcoming scheduled tasks, and identified design issues.

This task includes the preparation of monthly invoices to the City for services performed.

Kimley-Horn will attend one (1) Project Kickoff Meeting, which will be scheduled following the receipt of Notice to Proceed (NTP). The Project Kickoff Meeting will be held online via Microsoft Teams and will be scheduled in coordination with City staff. Kimley-Horn will be responsible for preparing the kick-off meeting agenda, sign-in sheet, presentation, handout material, attending and facilitating the kick-off meeting, and submitting notes of the meeting to the City.

Kimley-Horn will attend up to three (3) comment resolution meeting and up to six (6) additional design coordination meetings. Comment resolution meetings will be held following each submittal stage. Design coordination meetings will be held at the request of the City. It is assumed that all meetings will be online via Microsoft Teams. Kimley-Horn will be responsible for preparing the meeting agenda, sign-in sheet, presentation, handout material, attending and facilitating the meeting, and submitting notes of the meeting to the City.

Kimley-Horn will perform a field review to verify the topographic survey and above-ground utility features. Kimley-Horn will document the site visit with photographs. Kimley-Horn will inform City staff of the field review one week prior to the field review taking place.

Task 2. – Data Collection and Base Map

The City will furnish the latest as-builts and quarter section maps for City-owned facilities (water, sewer, right-of-way, storm drain, and aerial imagery) that are available for the project limits to Kimley-Horn.

Kimley-Horn will obtain supplemental topographic survey through subconsultant Entellus; see **Task 13** for more information.

Kimley-Horn will combine the proposed supplemental topographic survey, the original survey from the pre-design phase, and existing record drawings/drainage reports acquired from the City to develop a project base map in AutoCAD.

Task 3. – Developer Coordination

Kimley-Horn will coordinate with identified adjacent development projects and their design teams to obtain their latest CAD files and plans. Kimley-Horn will coordinate with the following project teams:

Development along the west frontage of Miller Road between Lower Buckeye Road and Durango Street (designed by HilgartWilson)

Development at the northwest corner of Miller Road and Durango Street (Miller Road Retail)

Durango Street DCR improving the east leg of the Miller Road and Durango Street intersection

SpeedSmart Chevron gas station along east Miller Road from Hess Lane to Durango Street

ADOT I-10 traffic interchange improvement and associated 7-lane widening between I-10 and Pima Street

Other developments within the project limits identified by the City

The City will be responsible for providing the design teams' contact information to Kimley-Horn.

Kimley-Horn will review the obtained designs for compatibility with the proposed 7-lane ultimate widening layout.

Task 4. – Utility Coordination

Kimley-Horn will submit a BlueStake ticket to request utility mapping from existing private utility companies with facilities within the project limits. Kimley-Horn will use the information obtained from the private utility company mapping to prepare an existing utilities base file.

Kimley-Horn will identify readily apparent utility conflicts with the roadway widening and will communicate those potential utility conflicts to the City and the private utility companies. Kimley-Horn will prepare utility clearance letters to send to the utility companies following each submittal stage. Signed clearance letters will be obtained and provided to the City of Buckeye if requested.

Kimley-Horn will review private utility relocation designs prepared by the private utility companies. Kimley-Horn will not design private utility relocations.

Kimley-Horn will participate in up to two (2) general utility coordination meetings. The purpose of this meeting is to inform the companies of the proposed widening layout, to identify potential utility conflicts, to discuss potential relocation concepts, and to identify if additional right-of-way or utility easements will be needed.

Kimley-Horn will participate in up to one (1) APS coordination meeting and up to one (1) SRP/WAPA coordination meeting. The purpose of these meetings is to inform the companies of the proposed widening layout, to review relocation concepts, and to identify any easement/restrictions that will impact design.

Kimley-Horn will assist the City in coordinating with the owner of the private irrigation crossing located south of the Lower Buckeye Road intersection. Kimley-Horn will provide exhibits and details showing the impacts to the private irrigation and the relocation concept.

Final Design Plans, Specifications, and Estimates

Kimley-Horn will prepare final design plans, specifications, and cost estimates for the roadway limits. The limits of the project are as follows:

- Miller Road: half street improvements (east side) between Lower Buckeye Road and Pima Street, with transitions south of Lower Buckeye Road to tie into existing
- Lower Buckeye Road: half street improvements (south side) west of Miller Road. Full improvements east of Miller Road to tie-in to existing Lower Buckeye Road.

Kimley-Horn's design tasks include horizontal and vertical roadway improvements, on-site drainage, traffic signals, ITS, street lighting, landscaping and landscape irrigation. Final design plans will be developed to 60%, 90% and 100%/Final design levels.

Task 5. – Roadway Plans

Kimley-Horn will prepare final design roadway plans in accordance with City of Buckeye and Maricopa Association of Governments (MAG) design standards.

Kimley-Horn will develop roadway plans for Miller Road from Lower Buckeye Road to Pima Street and Lower Buckeye Road from 600 feet west of Miller Road to 1,300 feet east of Miller Road.

The proposed paving plans are assumed to be shown on separate plan and profiles sheets at 1 inch = 20 feet (horizontally) and 1 inch = 2 feet (vertical). Profile sheets will detail the outside curbs and median curbs on each side of the roadway. In segments of half street design, the developer improvements will be shown screened back to delineate improvements by developers versus the City CIP project. Removals will be shown on the paving plans and separate sheets will not be included in the overall plan set accordingly. Plan sheets anticipated for this project include the following:

- Cover Sheet (1 Sheet)
- Legend & General Note Sheet (1 Sheet)
- Geometric Control Sheet (1 Sheet)
- Typical Section Sheets (2 Sheets)
- Miscellaneous Details/ADA Detail Sheets (6 Sheets)
- Miller Road Paving Plan Sheets (10 Sheets)
- Miller Road Profile Sheets (10 Sheets)
- Lower Buckeye Road Paving Plan Sheets (4 Sheets)
- Lower Buckeye Road Profile Sheets (4 Sheets)
- Durango Street Paving Plan Sheets (2 Sheets)
- Durango Street Profile Sheets (2 Sheets)
- Intersection Staking Detail Sheets (2 Sheets)
- Private Irrigation Relocation Plan, Profile, and Details (2 Sheets)

Kimley-Horn will not provide full landscape planting and irrigation design for the limits of the project described above. The landscape improvements will be limited to decomposed granite in the medians and project limits per the City's request. Irrigation sleeving will be shown to the medians to provide for future landscape irrigation connections. These improvements will be shown and quantified on the roadway plan sheets.

Kimley-Horn will prepare a 3D model in AutoCAD for the purposes of developing cut/fill lines and approximated earthwork quantities.

Task 6. – Drainage Plans

Kimley-Horn will prepare drainage plan sheets for the proposed drainage improvements that include scuppers and retention basins. Plan sheets anticipated for this project are the following:

- Drainage Plan Sheets (1"=20') (14 Sheets)
- Drainage Detail Sheets (4 Sheets)
- Scupper Summary Sheet (1 Sheet)

It is anticipated that the grading information for the retention basins will be shown on the Drainage Plan Sheets.

Kimley-Horn will prepare a Drainage Report to document the drainage design. The drainage design will follow the City of Buckeye Standards. Kimley-Horn will prepare a Draft Drainage Report for the 60% submittal. Kimley-Horn will respond to comments and submit the Final Drainage Report with the 90% submittal.

Offsite hydrology and culvert design for the future box culvert south of the Lower Buckeye Road intersection is not included as a part of this contract.

Task 7. – Signing and Marking Plans

Kimley-Horn will prepare signing and marking plans in accordance with the City of Buckeye standards and the Arizona Supplement to the Manual on Uniform Traffic Control Devices (MUTCD).

Kimley-Horn will develop signing and pavement marking plans at a 1 inch = 40 feet scale (double stacked) and will include the following sheets:

- General Signing and Pavement Marking Notes (1 Sheet)
- Miller Road Signing Removal and Pavement Marking Obliteration Plan (4 Sheets)
- Miller Road Signing Plan (4 Sheets)
- Miller Road Pavement Marking Plan (4 Sheets)

Task 8. – Traffic Signal Plans

Kimley-Horn will prepare traffic signal modification plans in accordance with the City of Buckeye standards and the Arizona Supplement to the Manual on Uniform Traffic Control Devices (MUTCD). Kimley-Horn will prepare traffic signal modification plans for the following intersections:

- Miller Road and Lower Buckeye Road
- Miller Road and Durango Street
- Miller Road and Pima Street

Kimley-Horn will perform a field investigation and document the existing conditions at each location. Field review will include inventory of existing signal equipment, coordination with City staff of existing wiring and connection to ITS and resolving potential conflicts.

Kimley-Horn will prepare the traffic signal plan sheets at a 1 inch = 20 feet scale at 60%, 90%, and 100%, and shall include the following sheets:

- General Notes Sheet (1 Sheet)
- Miller Road and Lower Buckeye Road Signal Removal Plan (1 Sheet)
- Miller Road and Lower Buckeye Road Signal Plan (1 Sheet)
- Miller Road and Lower Buckeye Road Pole Schedule (1 Sheet)
- Miller Road and Lower Buckeye Road Conductor Schedule/Internally Illuminated Sign Formats (1 Sheet)
- Miller Road and Durango Street Signal Removal Plan (1 Sheet)
- Miller Road and Durango Street Signal Plan (1 Sheet)
- Miller Road and Durango Street Pole Schedule (1 Sheet)
- Miller Road and Durango Street Conductor Schedule/Internally Illuminated Sign Formats (1 Sheet)
- Miller Road and Pima Street Signal Removal Plan (1 Sheet)
- Miller Road and Pima Street Signal Plan (1 Sheet)
- Miller Road and Pima Street Pole Schedule (1 Sheet)
- Miller Road and Pima Street Conductor Schedule/Internally Illuminated Sign Formats (1 Sheet)

Task 9. – Street Lighting Plans

Kimley-Horn will provide street lighting design for the limits of the project described above. Street lighting design will be based on applicable requirements for arterial roadways as described in the City of Buckeye Design Standards, Section 7-2. The design will utilize standard details, as provided by the City of Buckeye Design standards, and shall be included in the plans. A supplemental photometric analysis plan set will also be included.

The proposed street lighting design and photometric plans will be shown on sheets at 1 inch = 20 feet (horizontally).

Individual sheets associated with this task are identified in **Appendix A – Fee Summary.**

Task 10. – Engineer's Opinion of Probable Cost

An engineer's opinion of probable cost will be developed for each submittal. Quantities will be compiled in a list and will be labeled using City item numbers. Unit prices will be derived using readily available bid data from projects with similar improvements.

Task 11. – Technical Specifications

Kimley-Horn will prepare project specific technical specifications that may be necessary for the project that are either not covered by Maricopa Association of Governments (MAG) Standard Specifications, City Supplement to MAG Standard Specifications or the City standard boilerplate contract specification template.

Draft project technical specifications will be provided starting with the 60% design submittal and final project technical specifications will be provided at the 100% design submittal.

Task 12. – Submittals and QA/QC

Three submittals are included as part of this contract: 60%, 90%, and 100%/Final. The 100% review is assumed to be verification that the 90% comments were adequately addressed in the 100% submittal. If new direction is provided and additional revisions to the plans not previously requested are necessary, the Consultant will notify the City and request additional services.

Each submittal will consist of the following:

- Scalable full-size plan set
- Engineer's opinion of probable cost
- Technical specifications
- Drainage report

Each submittal will consist of electronic PDF versions of the documents listed above. Hard copies may be provided at the request of the City.

Following each submittal, Kimley-Horn will compile received comments into a Summary of Comments form. Kimley-Horn will provide comment responses and will address comments prior to the subsequent submittal.

Kimley-Horn will perform internal quality control interdisciplinary reviews prior to each submittal which will included compiling a preliminary set of plans for review which can be provided to the City if requested for a preview of the upcoming submittal package.

SUBCONSULTANT SERVICES

Task 13. – Topographic Survey (Entellus)

Entellus will perform supplemental topographic design survey. Entellus' scope of services is included as Appendix C of this document.

Direct Expenses

Direct reimbursable expenses such as express delivery services, fees, vehicular mileage, and other direct expenses will be billed at times cost. A summary of anticipated expenses is shown in Appendix A of this document.

Services Not Included

Any other services, including but not limited to the following, are not included in this Task Adjustment:

- Environmental Services
- Geotechnical investigations
- Traffic counts and traffic analysis
- Post-design or construction phase services
- Landscape and irrigation design
- ITS plans or design (except connections to existing ITS system)
- Public involvement
- Any other services not specifically listed above

Information Provided By Client

Kimley-Horn shall be entitled to rely on the completeness and accuracy of all information provided by the Client or the Client's consultants or representatives. The Client shall provide all information requested by Kimley-Horn during the project.

Schedule

We will provide our services as expeditiously as practicable with the goal of completing the Preliminary Plans Submittal in accordance with the design schedule included as Appendix B of this document. This design schedule assumes a Notice to Proceed (NTP) date of August 2, 2021.

Fees and Expenses

Kimley-Horn will perform the services in Tasks 1 - 13 on a labor fee plus expense basis with the maximum labor fee shown in Appendix A.

Kimley-Horn will not exceed the total maximum labor fee shown without authorization from the Client. Individual task amounts are provided for budgeting purposes only. Kimley-Horn reserves the right to reallocate amounts among tasks as necessary.

Labor fee will be billed on an hourly basis according to our then-current rates. As to these tasks, direct reimbursable expenses such as express delivery services, fees, air travel, and

other direct expenses will be billed at 1.15 times cost. A percentage of labor fee will be added to each invoice to cover certain other expenses as to these tasks such as telecommunications, in-house reproduction, postage, supplies, project related computer time, and local mileage. Administrative time related to the project may be billed hourly. All permitting, application, and similar project fees will be paid directly by the Client. Should the Client request Kimley-Horn to advance any such project fees on the Client's behalf, a separate invoice for such fees, with a fifteen percent (15%) markup, will be immediately issued to and paid by the Client.

Payment will be due within 25 days of your receipt of the invoice and should include the invoice number and Kimley-Horn project number.

APPENDIX A
FEE SUMMARY

Summary of Consultant's Compensation

Kimley»Horn

Project Location: Miller Road: Lower Buckeye Rd to Pima St
Project Description: Roadway Widening Final Design

1001 W Southern
Avenue, Suite 131
Mesa, AZ 85210
480.207.2666

7/14/2021

CONTRACT LABOR

Classification	Man Hours	Billable Rates		Labor Costs
Senior Project Manager	80	$ 199.00		$ 15,920.00
Project Manager	345	$ 175.00		$ 60,375.00
Professional	791	$ 135.00		$ 106,785.00
Analyst/ Designer	1,791	$ 111.00		$ 198,801.00
Admin	50	$ 90.00		$ 4,500.00
			Subtotal Contract Labor	**$ 386,381.00**

DIRECT AND OUTSIDE EXPENSES

General Expenses		$ 612.00
	Subtotal Direct & Outside Expenses	**$ 612.00**

SUBCONSULTANT ALLOWNACES

Subconsultant	Task		Fee
Entellus	Topographic Survey		$ 16,943.43
		Subtotal Subconsultant Allowances	**$ 16,943.43**

TOTALS

Subtotal Contract Labor	$	386,381.00
Subtotal Direct & Outside Expenses	$	612.00
Subtotal Contract Fee	**$**	**386,993.00**
Subtotal Subconsultant Allowances	$	16,943.43
Total Contract Fee & Allowances	**$**	**403,936.43**

Detail of Consultant's Compensation
City of Buckeye
Miller Road: Lower Buckeye Road to Durango Street
Roadway Widening Final Design

TASK DESCRIPTION	SUBTOTAL	Senior Project Manager	Project Manager	Professional	Analyst/ Designer	Admin
		$ 199.00	$ 175.00	$ 135.00	$ 111.00	$ 90.00
TASK 1 - PROJECT MANAGEMENT AND MEETINGS	**$ 17,050.00**	**6**	**46**	**8**	**46**	**18**
Project Administration, Bi-Weekly Progress Reports, Invoicing	$ 6,768.00		18		18	18
Project Kickoff Meeting (up to 1)	$ 572.00		2		2	
Comment Resolution Meetings (up to 3)	$ 2,313.00	3	6		6	
Project Progress Meetings (up to 6)	$ 4,029.00	3	12		12	
Project Field Review	$ 3,368.00		8	8	8	
TASK 2 - DATA COLLECTION & BASE MAP	**$ 1,962.00**	**-**	**-**	**2**	**12**	**4**
Collecting Maps and Quarter Sections	$ 804.00				4	4
Developing Project Base Map from Survey	$ 1,158.00			2	8	
TASK 3 - DEVELOPER COORDINATION	**$ 7,677.00**	**-**	**12**	**11**	**32**	**6**
Coordinate with Developers/Design Teams	$ 4,782.00		12	6	12	6
Review Developer Design Files for Compatibility with Design	$ 2,895.00			5	20	
TASK 4 - UTILITY COORDINATION	**$ 13,852.00**	**-**	**22**	**26**	**52**	**8**
Blue Stake, Collect As-Builts	$ 804.00				4	4
Utility Base Map	$ 1,650.00			4	10	
Identify Utility Conflicts & Communicate with Utility Companies	$ 2,318.00		2	8	8	
Prepare and Distribute Utiltiy Conflict Letters	$ 1,154.00		2		4	4
Review Private Utility Design Plans	$ 1,826.00		2	6	6	
General Utility Coordination Meetings (up to 2)	$ 1,716.00		6		6	
APS Coordination & Coordination meeting (one meeting)	$ 858.00		3		3	
WAPA Coordination & Coordination meeting (one meeting)	$ 858.00		3		3	
Private Irrigation Coordination	$ 2,668.00		4	8	8	
TASK 5 - ROADWAY PLANS	**$ 120,254.00**	**-**	**86**	**221**	**679**	**-**
Roadway layout and base map refinement	$ 4,040.00		2	15	15	
Cover Sheet (1 Sheet)	$ 643.00		1	1	3	
Legend & General Note Sheet (1 Sheet)	$ 643.00		1	1	3	
Geometric Control Sheet (1 Sheet)	$ 1,000.00		1	2	5	
Typical Section Sheets (2 Sheets)	$ 2,936.00		2	6	16	
Miscellaneous Details Sheets (6 Sheets)	$ 8,808.00		6	18	48	
Miller Road Paving Plan Sheets (1"=20') (10 Sheets)	$ 30,230.00		20	50	180	
Miller Road Profile Sheets (1"=20') (10 Sheets)	$ 24,440.00		20	40	140	
Lower Buckeye Road Paving Plan Sheets (1"=20') (4 Sheets)	$ 12,092.00		8	20	72	
Lower Buckeye Road Profile Sheets (1"=20') (4 Sheets)	$ 9,680.00		8	12	60	
Durango Street Paving Plan Sheets (1"=20') (2 Sheets)	$ 6,046.00		4	10	36	
Durango Street Profile Sheets (1"=20') (2 Sheets)	$ 4,840.00		4	6	30	
Intersection Staking Detail Sheets (2 Sheets)	$ 4,808.00		2	10	28	
Private Irrigation Relocation Plan, Profile, and Details (2 Sheets)	$ 4,808.00		2	10	28	
3D model and grading	$ 5,240.00		5	20	15	
TASK 6 - DRAINAGE PLANS	**$ 57,712.00**	**14**	**41**	**135**	**266**	**-**
Drainage Plan Sheets (1"=20') (14 Sheets)	$ 38,524.00	6	22	100	180	

Detail of Consultant's Compensation
City of Buckeye
Miller Road: Lower Buckeye Road to Durango Street
Roadway Widening Final Design

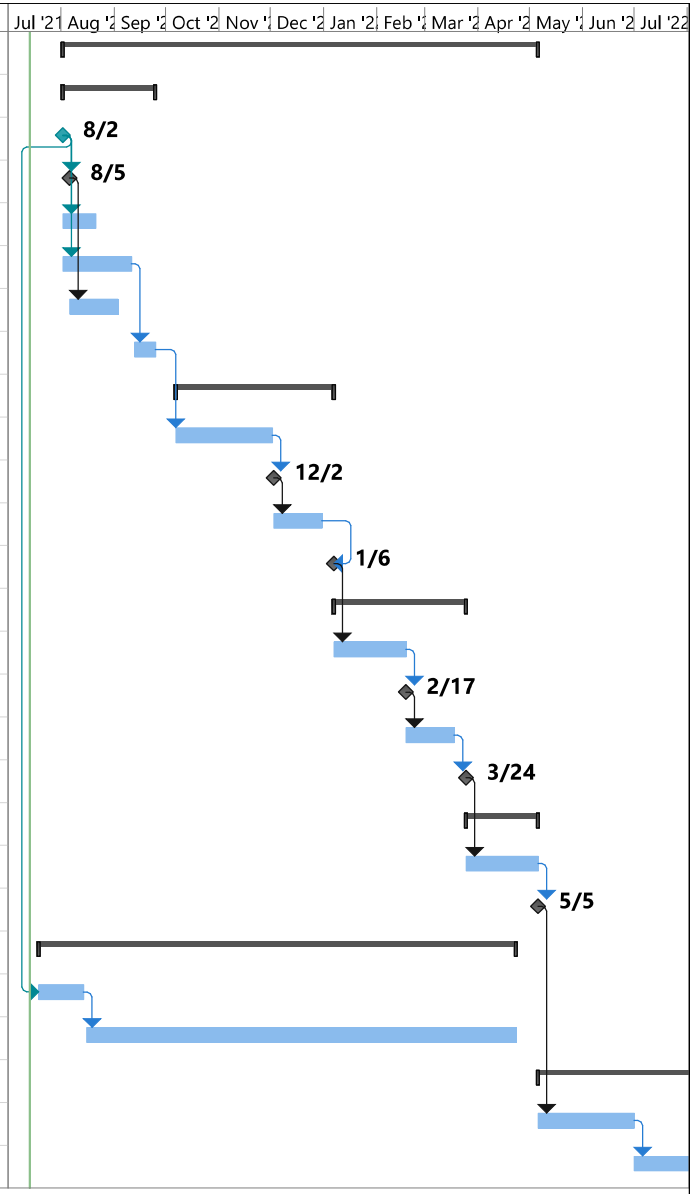
		Senior Project Manager	Project Manager	Professional	Analyst/ Designer	Admin
TASK DESCRIPTION	**SUBTOTAL**	**$ 199.00**	**$ 175.00**	**$ 135.00**	**$ 111.00**	**$ 90.00**
Drainage Detail Sheets (4 Sheets)	$ 7,812.00	4	8	12	36	
Scupper Summary Sheet (1 Sheet)	$ 2,112.00	1	2	5	8	
Draft Drainage Report	$ 5,398.00	2	5	10	25	
Final Drainage Report	$ 3,866.00	1	4	8	17	
TASK 7 - SIGNING AND MARKING PLANS	**$ 29,707.00**	**-**	**13**	**70**	**162**	**-**
General Notes Sheet (1 Sheet)	$ 667.00		1	2	2	
Signing Removal and Pavement Marking Obliteration (1'=40') (Double Stacked) (4 Sheets)	$ 7,840.00		4	20	40	
Signing Plan (1'=40') (Double Stacked) (4 Sheets)	$ 10,600.00		4	24	60	
Pavement Marking Plan (1'=40') (Double Stacked) (4 Sheets)	$ 10,600.00		4	24	60	
TASK 8 - TRAFFIC SIGNAL PLANS	**$ 52,482.00**	**-**	**36**	**139**	**247**	**-**
Traffic Signal Field Review (3 Locations)	$ 3,690.00			15	15	
Electrical Service/Utility Coordination	$ 2,128.00		4	4	8	
Traffic Signal General Notes (1 Sheet)	$ 667.00		1	2	2	
Miller/LBR Traffic Signal Removal Plan (1"=20') (1 Sheet)	$ 2,762.00		2	8	12	
Miller/LBR Traffic Signal Plan (1"=20') (1 Sheet)	$ 5,705.00		2	15	30	
Miller/LBR Pole Schedule (1 Sheet)	$ 4,270.00		4	10	20	
Miller/LBR Conductor Schedule (1 Sheet)	$ 4,270.00		4	10	20	
Miller/Durango Traffic Signal Removal Plan (1"=20') (1 Sheet)	$ 2,762.00		2	8	12	
Miller/Durango Traffic Signal Plan (1"=20') (1 Sheet)	$ 5,705.00		2	15	30	
Miller/Durango Pole Schedule (1 Sheet)	$ 4,270.00		4	10	20	
Miller/Durango Conductor Schedule (1 Sheet)	$ 4,270.00		4	10	20	
Miller/Pima Traffic Signal Removal Plan (1"=20') (1 Sheet)	$ 1,381.00		1	4	6	
Miller/Pima Traffic Signal Plan (1"=20') (1 Sheet)	$ 4,634.00		2	12	24	
Miller/Pima Pole Schedule (1 Sheet)	$ 2,984.00		2	8	14	
Miller/Pima Conductor Schedule (1 Sheet)	$ 2,984.00		2	8	14	
TASK 9 - STREET LIGHTING PLANS	**$ 48,268.00**	**-**	**31**	**134**	**223**	**-**
Legend & General Note Sheet (1 Sheet)	$ 2,135.00		2	5	10	
Miller Road Lighting Sheets (1"=20') (14 Sheets)	$ 16,030.00		10	40	80	
Lower Buckeye Road Lighting Sheets (1"=20') (14 Sheets)	$ 16,030.00		10	40	80	
Standard Details (1 Sheet)	$ 1,778.00		2	4	8	
Miller Rd from Lower Buckeye Rd to Pima St (Photometrics)(1"=20') (14 Sheets)	$ 10,190.00		2	40	40	
Quantities & Discipline Specs	$ 2,105.00		5	5	5	
TASK 10 - ENGINEER'S OPINION OF PROBABLE COST	**$ 4,748.00**	**-**	**8**	**10**	**18**	**-**
60% EOPC	$ 2,128.00		4	4	8	
90% EOPC	$ 1,556.00		2	4	6	
100% EOPC	$ 1,064.00		2	2	4	
TASK 11 - TECHNICAL SPECIFICATIONS	**$ 9,752.00**	**-**	**20**	**20**	**32**	**-**
60% Technical Specifications	$ 5,496.00		12	12	16	
90% Technical Specifications	$ 2,128.00		4	4	8	
100% Technical Specifications	$ 2,128.00		4	4	8	
TASK 12 - SUBMITTALS AND QA/QC	**$ 22,917.00**	**60**	**30**	**15**	**22**	**14**

Detail of Consultant's Compensation
City of Buckeye
Miller Road: Lower Buckeye Road to Durango Street
Roadway Widening Final Design

		Senior Project Manager	Project Manager	Professional	Analyst/ Designer	Admin
TASK DESCRIPTION	**SUBTOTAL**	**$ 199.00**	**$ 175.00**	**$ 135.00**	**$ 111.00**	**$ 90.00**
Submittal Preparation (3 Submittals)	$ 2,052.00				12	8
Summary of Comments (3 Submittals)	$ 3,675.00			15	10	6
QA/QC (3 Submittals)	$ 17,190.00	60	30			
SUBTOTAL DIRECT LABOR	**$ 386,381.00**	**80**	**345**	**791**	**1,791**	**50**
DIRECT EXPENSES						
EXPENSES	**$ 612.00**					
Vehicular Mileage (2 site visit @ 112 miles/visit @ $0.50/mile)	$ 112.00					
Miscellaneous Expenses (Deliveries, Plotting, Etc.)	$ 500.00					
SUBCONSULTANT ALLOWANCES						
TASK 13 - TOPOGRAPHIC SURVEY	**$ 16,943.43**					
Entellus	$ 16,943.43					
SUBTOTAL SUBCONSULTANT ALLOWANCES	**$ 16,943.43**	**0**	**0**	**0**	**0**	**0**
TOTAL CONTRACT FEE - NOT TO EXCEED	**$ 403,936.43**					

APPENDIX B
DESIGN SCHEDULE

ID	Task	Task Name	Duration	Start	Finish
1		**Final Design**	**199 days**	**Mon 8/2/21**	**Thu 5/5/22**
2		**Project Startup**	**40 days**	**Mon 8/2/21**	**Fri 9/24/21**
3		Notice to Proceed	0 days	Mon 8/2/21	Mon 8/2/21
4		Project Kickoff Meeting	0 days	Thu 8/5/21	Thu 8/5/21
5		Data Collection	3 wks	Mon 8/2/21	Fri 8/20/21
6		Topo Survey	6 wks	Mon 8/2/21	Fri 9/10/21
7		Developer Coordination	4 wks	Fri 8/6/21	Thu 9/2/21
8		Develop Base Maps	2 wks	Mon 9/13/21	Fri 9/24/21
9		**60% Plans, Specs, and Estimate**	**66 days**	**Thu 10/7/21**	**Thu 1/6/22**
10		Develop 60% Plans & Layout	8 wks	Thu 10/7/21	Wed 12/1/21
11		60% Plans Submittal	0 days	Thu 12/2/21	Thu 12/2/21
12		City Review of Preliminary Layout	4 wks	Fri 12/3/21	Thu 12/30/21
13		60% Plans Comment Resolution Meeting	0 days	Thu 1/6/22	Thu 1/6/22
14		**90% Plans, Specs, and Estimate**	**55 days**	**Fri 1/7/22**	**Thu 3/24/22**
15		Develop 90% Plans & Address Comments	6 wks	Fri 1/7/22	Thu 2/17/22
16		90% Plans Submittal	0 days	Thu 2/17/22	Thu 2/17/22
17		City Review of 90% Plans	4 wks	Fri 2/18/22	Thu 3/17/22
18		90% Plans Comment Resolution Meeting	0 days	Thu 3/24/22	Thu 3/24/22
19		**100%/Final Plans, Specs, and Estimate**	**30 days**	**Fri 3/25/22**	**Thu 5/5/22**
20		Develop 100% Plans & Address Comments	6 wks	Fri 3/25/22	Thu 5/5/22
21		100%/Final Plans Submittal	0 days	Thu 5/5/22	Thu 5/5/22
22		**Right-of-Way**	**200 days**	**Mon 7/19/21**	**Fri 4/22/22**
23		Develop Legal Descriptions & Exhibits	4 wks	Mon 7/19/21	Fri 8/13/21
24		Right-of-Way Acquisition	9 mons	Mon 8/16/21	Fri 4/22/22
25		**Construction**	**220 days**	**Fri 5/6/22**	**Thu 3/9/23**
26		Bidding & Procurement	8 wks	Fri 5/6/22	Thu 6/30/22
27		Construction	9 mons	Fri 7/1/22	Thu 3/9/23



Miller Rd DCR: LBR to Pima
Date: Wed 7/14/21

Task	Inactive Task	Manual Summary Rollup	External Milestone
Split	Inactive Milestone	Manual Summary	Deadline
Milestone	Inactive Summary	Start-only	Progress
Summary	Manual Task	Finish-only	Manual Progress
Project Summary	Duration-only	External Tasks	

APPENDIX C
Entellus
Scope of Services

Entellus
3033 N. 44th Street, Suite 250, Phoenix, AZ 85018
(602) 244-2566 www.entellus.com

City of Buckeye
Miller Road – Lower Buckeye Road to Durango Street
Additional Survey Tasks

June 15, 2021
SCOPE OF SERVICES

General Scope
As a sub-consultant to Kimley-Horn, Entellus will provide additional topographic survey of the project area as shown on the attached diagram. This survey will be used as the basis of plans for roadway design. The survey will primarily include locations and elevations of existing roadway features, but will also include utilities, catch basins, clean outs, manholes, and structures where not previously surveyed. The establishment of some additional horizontal and vertical control will be necessary to extend the existing survey limits.

The limits of topographic mapping are further described as follows:

1. Miller Road- running 1400-feet south of the intersection with Lower Buckeye Road, extending out 150-feet either side of the section line
2. Lower Buckeye Road- from the intersection with Miller Road, running 600-feet west, 1300-feet east, 50-feet south, and 160-feet north
3. Durango Street- from the intersection with Miller Road, running 500-feet west, and 400-feet east

Additionally, Entellus has included an allowance for resurveying several areas as designated by Kimley-Horn. These areas may be necessary after developer projects are completed, and are defined as follows:

1. Miller Road and Lower Buckeye Road Intersection and extending 500-feet east and west of the intersection to include new curbing, sidewalk, ramps, traffic signal equipment, curbing, edge-of-pavement, and crown lines
2. Miller Road- running from Lower Buckeye Road to Durango Street to include the crown line and the west curb line and edge-of-pavement
3. Northeast Corner of Miller Road and Durango Street to include new curbing, sidewalk, and traffic signal equipment

Deliverables
2D CAD Drawing with labels
3D CAD Drawing with contours
ASCII file of all survey points

Fee
See attached hour & fee estimate.

CITY OF BUCKEYE
Survey & Topographic Mapping: Miller Road- Lower Buckeye to Durango
HOUR AND FEE ESTIMATE
SURVEY FEE
June 15, 2021

COB Proj #

Entellus Project No. 843.024

#	WORK ITEM DESCRIPTION	RLS $153.04	2-M CREW $135.48	SURV TECH $52.55	DESIGNER $129.94	ADMIN $55.00	TOTAL HOURS	LABOR	SUB FEES	REIMB	TOTAL
	SURVEY TASKS										
	1. Project Management & Admin	4					4	$612.16			$612.16
	2. Control Survey	2	8		2		12	$1,649.80			$1,649.80
	3. Additional Survey- Miller Road	2	13	2	2		19	$2,432.30			$2,432.30
	4. Additional Survey- Lower Buckeye	4	20	4	4		32	$4,051.72			$4,051.72
	5. Additional Survey- Durango St	2	10	2	1		15	$1,895.92			$1,895.92
							0	$0.00			$0.00
							0	$0.00			$0.00
							0	$0.00			$0.00
	Total Survey Tasks	**14**	**51**	**8**	**9**	**0**	**82**	**$10,641.90**	**$0.00**	**$0.00**	**$10,641.90**
	ALLOWANCES										
	6. Re-Survey- Miller Rd & Lower Buckeye Int-x	2	13	2	1		18	$2,302.36			$2,302.36
	7. Re-Survey- Miller Rd- Lwr Bkye to Durango	3	16	2	3		24	$3,121.72			$3,121.72
	8. Re-Survey- NEC Miller Road & Durango	1	4	1	1		7	$877.45			$877.45
	Total Allowance Items	**6**	**33**	**5**	**5**	**0**	**49**	**$6,301.53**	**$0.00**	**$0.00**	**$6,301.53**
	TOTAL ALL SERVICES	**20**	**84**	**13**	**14**	**0**	**131**	**$16,943.43**	**$0.00**	**$0.00**	**$16,943.43**


Love's Travel Stop
MILLER COMMERCE CENTER
Yuma Rd
W Durango St
PJ1 Towing
Five Below
Tractor Supply Co.
Miller Rd

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.P. Resolution No. 51-21, Intent to Formation of Street Lighting Improvement District No. 2021-SLID-002 - Five Below/LGE
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 2
STAFF LIAISON: Scott Lowe, Public Works Director, slowe@buckeyeaz.gov, (623) 349-6815	
DEPARTMENT: Public Works	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on Resolution No. 51-21 accepting a Petition for Formation of a Street Lighting Improvement District; declaring its intention to form a Street Lighting Improvement District; designating such District as the "City of Buckeye Street Lighting Improvement District No. 2021-SLID-002"; providing for the annual levy of taxes or assessments equally apportioned upon all of the non-public property owners in the District to purchase energy for the lighting of public streets and parks within and adjacent to the District; and ordering recording and filing of this Resolution.

RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

ADDITIONAL RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:
Street Lighting Improvement Districts (SLIDs) are established to purchased (and not generate) energy for street lighting or public park lighting within the District and adjacent streets so that the costs are not borne by the City in its Highway User Revenue Fund.

BENEFITS:
Both SLIDs and Maintenance Improvement Districts (MIDs) provide for the benefit of ensuring that there is a balance of revenue and expenditures to provide for the quality of life for the residents/owners of a particular development without an undue burden upon the existing community. SLIDs ensure that only the owners that have benefit from the lighting in their community pay for that service. Having the costs of street and public park lighting within a SLID borne by the owners in a development ensures that the revenue needed to fund these costs is always in place.

FUTURE ACTION:
A Resolution Ordering the Formation of such District follows on the current agenda. A budget and further Council action will take place at the beginning of the next fiscal year to implement this District.

FINANCIAL IMPACT STATEMENT:
N/A

CURRENT FISCAL YEAR TOTAL COST:
N/A

BUDGETED:
No

FUND/DEPARTMENT:
SLIDs

Items related to a project or facility location must include an attached vicinity map for Council Review.

ATTACHMENTS:
Location Map.pdf
Five Below-10 West LGE SLID.PDF
RES 51-21 2021-SLID-002.pdf

2021-SLID-002

Five Below/LGE

District 3



When Recorded, Return to:

Lucinda J. Aja, City Clerk
City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326

PETITION, WAIVER AND CONSENT TO FORMATION OF A STREET LIGHTING IMPROVEMENT DISTRICT BY THE CITY OF BUCKEYE

FIVE BELOW / 10 WEST LGE
2021-SLID-002

To: Honorable Mayor and Councilmembers
City of Buckeye, Arizona

Pursuant to Arizona Revised Statutes ("*A.R.S.*") Title 48, Chapter 4, Article 2 (the "*Improvement District Law*"), the undersigned, as authorized representatives of owners of non-public real property (together, the "*Petitioners*") within the City of Buckeye, Arizona (the "*City*"), respectfully petition the Mayor and City Council (the "*City Council*") of the City to order the formation of a street lighting improvement district under the Improvement District Law. In support of this Petition, Waiver and Consent to Formation of a Street Lighting Improvement District by the City of Buckeye (this "*Petition*"), the Petitioners agree to waive certain rights under the Improvement District Law and hereby consent to the formation of a street lighting improvement district encompassing the land shown on *Exhibits A*, *B*, and *C*, attached hereto and incorporated by reference herein.

1. Name of District. The Petitioners hereby request the proposed district to be named the "City of Buckeye Street Lighting Improvement District No. 2021-SLID-002" (the "*District*").

2. Area of District. The property comprising the proposed District is described by a legal description, Assessor's parcel numbers, and a map or plat of the area, all as set forth in *Exhibits A*, *B*, and *C*. Such property is entirely within the corporate boundaries of the City. The Petitioners respectfully request that the property shown on *Exhibits A*, *B* and *C* be included within the District. The Assessor's parcel numbers set forth in *Exhibit B* are for convenience only. Should either the legal description set forth in *Exhibit A* or the Assessor's parcel numbers set forth in *Exhibit B* conflict with *Exhibit C*, *Exhibit C* shall govern.

3. Ownership. The Petitioners are the sole owners of all non-public real property within the proposed District.

4. Purpose. The District is proposed to be formed for the purpose of purchasing, and not generating, energy for street and public park lighting.

5. Public Convenience and Necessity. Public convenience, necessity and welfare will be promoted by the formation of the District, the inclusion of the property described in *Exhibits A*, *B*, and *C* within the District, and the levying of an annual ad valorem tax or equal apportionment of taxes upon all of the non-public real property within the District as provided in A.R.S. § 48-616(C).

6. Fees and Reimbursement. The Petitioners have paid all application fees for the formation of the District and further agree to reimburse the City for all reasonable legal and engineering fees and costs incurred by the City with respect to the formation of the District.

7. Expansion of or Annexation to the District. The Petitioners waive any objection to, or protest against, any future enlargement or enlargements of the District and also waive all notices of such enlargement or enlargements, whether required to be published, posted, or mailed with respect to the later enlargement of the District's boundaries. The Petitioners further waive any objection to, or protest against, the consolidation of the District with any other similar district or districts.

8. Waiver and Consent. The Petitioners, with full knowledge of their rights being waived hereunder, hereby expressly waive:

a) The right to challenge or object to any and all irregularities, illegalities or deficiencies which may exist in the acts or proceedings resulting in the resolution of intention and the resolution ordering the work relating to the formation of the District;

b) The right to challenge or object to any and all irregularities, illegalities or deficiencies which may exist in the acts or proceedings that result in the adoption of any and all future resolutions of intention, resolutions ordering work, resolutions enlarging the District, and notices pertaining thereto;

c) Any necessity for publication, posting, mailing, or recording of any resolution(s) of intention, resolution(s) ordering work, resolution(s) enlarging the District, or notices of proposed improvements as described in A.R.S. §§ 48-578 and 48-581;

d) All protest rights whatsoever under A.R.S. § 48-579(A) and (B), which provide for protests against the work;

e) All objections to the extent of the District under A.R.S. § 48-579(C);

f) All objections to the lack of plans and specifications, the engineer's estimate and an assessment diagram, all of which are unnecessary for completion of the District's formation or purpose; and

g) Any necessity for any notice or hearing with respect to land owned by the Petitioners now within the proposed boundaries of the District.

9. Equal Apportionment. The Petitioners hereby petition the City Council to equally apportion the District's annual taxes based on the number and classification of properties within the District pursuant to A.R.S. § 48-616(J). The Petitioners further request that no publicly owned land or property owned by a homeowners' association shall be liable to pay any expenses of the District.

10. Waiver of Petition. This Petition shall be deemed to be a petition of more than one-half (1/2) of the taxable property units and more than one-half (1/2) of the assessed valuation within the District and as such shall also be deemed to be a waiver of any and all requirements to file a petition under A.R.S. § 48-576, as amended.

11. Public Benefit. The purchasing of energy to operate street lighting improvements within the District is of more than local or ordinary public benefit and should be charged against the property within the District, all of which will benefit thereby.

12. Successors and Assigns. To the extent permitted by law, this Petition shall be binding on all successors or assigns of the Petitioners who hereafter own or have an interest in the property described in *Exhibits A*, *B*, and *C* attached hereto.

13. Recordation. This Petition may be recorded in the office of the Maricopa County Recorder and in the office of the Superintendent of Streets of the City.

14. Counterparts. For convenience, this Petition may be executed in one or more counterparts and each executed counterpart shall for all purposes be deemed an original and shall have the same force and effect as an original, but all of which together shall constitute in the aggregate but one and the same instrument.

The Petitioners hereby request the City Council of the City to adopt a resolution of intention to order the proposed improvements and to proceed with the improvements requested herein.

IN WITNESS WHEREOF, the undersigned representatives of the Petitioners have executed this Petition as of the dates shown below.

[Signature Pages to Follow]

FIVE BELOW, INC.,
a Pennsylvania corporation

By: _____

Name: Ronald Mascia Antonio

Title: SVP General Counsel

Date: 7/22/21

STATE OF Pennsylvania)
) ss.
COUNTY OF Philadelphia)

On this 22nd day of July, 2021, before me personally appeared Ronald Mascia Antonio, the SVP & General Counsel of FIVE BELOW, INC., a Pennsylvania corporation, whose identity was proven to me on the basis of satisfactory evidence to be the person who he/she claims to be, and acknowledged that he/she signed the Petition on behalf of the corporation.

I certify under PENALTY OF PERJURY under the laws of the State of Pennsylvania that the foregoing paragraph is true and correct.

_____
Notary Public in and for the State of Pennsylvania

(Seal and Expiration Date)

Commonwealth of Pennsylvania - Notary Seal
JOELIE WHITE - Notary Public
Philadelphia County
My Commission Expires July 27, 2025
Commission Number 1317417

SBS:sbm 4130282.1 5/19/2021

CRE-COMMERCE AZ OWNER LLC,
a Delaware limited liability company

By: CRE-COMMERCE AZ HOLDINGS LLC,
a Delaware limited liability company
Its: Manager

By: _____

Name: DAVID E. SELLERS

Title: AUTHORIZED SIGNATORY

Date: 6/22/2021

STATE OF AZ)
) ss.
COUNTY OF Maricopa)

On this 22 day of June, 2021, before me personally appeared David Sellers, the authorized signatory of CRE-COMMERCE AZ HOLDINGS LLC, a Delaware limited liability company, the Manager of CRE-COMMERCE AZ OWNER LLC, a Delaware limited liability company, whose identity was proven to me on the basis of satisfactory evidence to be the person who he/she claims to be, and acknowledged that he/she signed the Petition on behalf of the limited liability company.

I certify under PENALTY OF PERJURY under the laws of the State of AZ that the foregoing paragraph is true and correct.

Kayla Miller
Notary Public in and for the State of AZ

(Seal and Expiration Date)

KAYLA S. MILLER
Notary Public - State of Arizona
MARICOPA COUNTY
Commission # 577986
Expires December 4, 2023

SBS:sbm 4130282.1 5/19/2021

RECEIPT this ____ day of _____, 2021, of the foregoing Petition is hereby acknowledged by the City Clerk of the City of Buckeye, Arizona, who will deliver said Petition to the City Council for action.

_____

Lucinda J. Aja, City Clerk

EXHIBIT A
CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE
LEGAL DESCRIPTION

A portion of the Southeast quarter of Section 18 and a portion of the Northeast quarter of Section 19, Township 1 North, Range 3 West of the Gila and Salt River Meridian, Maricopa County, Arizona, including Lots 1 and 2 of the Minor Land Division for "Miller and Durango 63", as recorded in Book 1546, Page 29, said records of Maricopa County, Arizona, said Street Light Improvement District being more particularly described as follows:

BEGINNING at a found 3 inch Maricopa County Highway Department brass cap in hand hole accepted as the East quarter corner of said Section 18, from which a found 3 inch Maricopa County Highway Department brass cap in hand hole accepted as the Southeast corner thereof bears South 00°15'25" West, 2627.26 feet;

Thence South 00°15'25" West, 2584.26 feet along the east line of said Southeast quarter to the intersection of said east line and the centerline of Lower Buckeye Road;

Thence leaving said east line and along said centerline the following 5 courses:

Thence North 89°42'34" West, 385.05 feet to the beginning of a tangent curve, concave southerly, having a radius of 1100.00 feet;

Thence westerly along said curve, through a central angle of 15°41'45", an arc length of 301.34 feet to a tangent line;

Thence South 74°35'41" West, 540.10 feet to the beginning of a tangent curve, concave northerly, having a radius of 1100.00 feet;

Thence westerly along said curve, through a central angle of 15°41'45", an arc length of 301.34 feet to a tangent line;

Thence North 89°42'34" West, 1136.26 feet to the west line of said Northeast quarter;

Thence leaving said centerline and along said west line, North 00°07'56" West, 185.19 feet to the South quarter corner of said Section 18;

Thence North 00°09'44" East, 2633.12 feet along the west line of said Southeast quarter to the Center of said Section 18;

Thence South 89°34'55" East, 2642.19 feet along the north line of said Southeast quarter to the **POINT OF BEGINNING**.

The above described parcel contains a computed area of 7,216,948 sq. ft. (165.6783 acres) more or less and being subject to any easements, restrictions, rights-of-way of record or otherwise.

The description shown hereon is not to be used to violate any subdivision regulation of the state, County and/or municipality or any land division restrictions.

Prepared by: HILGARTWILSON, LLC
2141 E. Highland Avenue, Suite 250
Phoenix, AZ 85016
Project No. 2186
Date: May 2021



Expires 12/31/2021

EXHIBIT B

CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE
ASSESSOR PARCEL NUMBERS

ASSESSOR PARCEL NUMBER	OWNER
504-26-008J	FIVE BELOW INC
504-26-008K	CRE-COMMERCE AZ OWNER LLC
504-26-005C	BUCKEYE ELEMENTARY SCHOOL DIST #33 EXEMPT
504-26-014C	CITY OF BUCKEYE EXEMPT
504-26-014R	CITY OF BUCKEYE EXEMPT



PROJ.NO.:	2186
DATE:	MAY 2021
SCALE:	NONE
DRAWN BY:	JDL
CHECKED BY:	KJP

FIVE BELOW / 10 WEST LGE
S.W.C. OF MILLER RD. & DURANGO ST.
BUCKEYE, ARIZONA

STREET LIGHT IMPROVEMENT DISTRICT

HILGARTWILSON
2141 E. HIGHLAND AVE., STE. 250
PHOENIX, AZ 85016
P: 602.490.0535 / F: 602.368.2436

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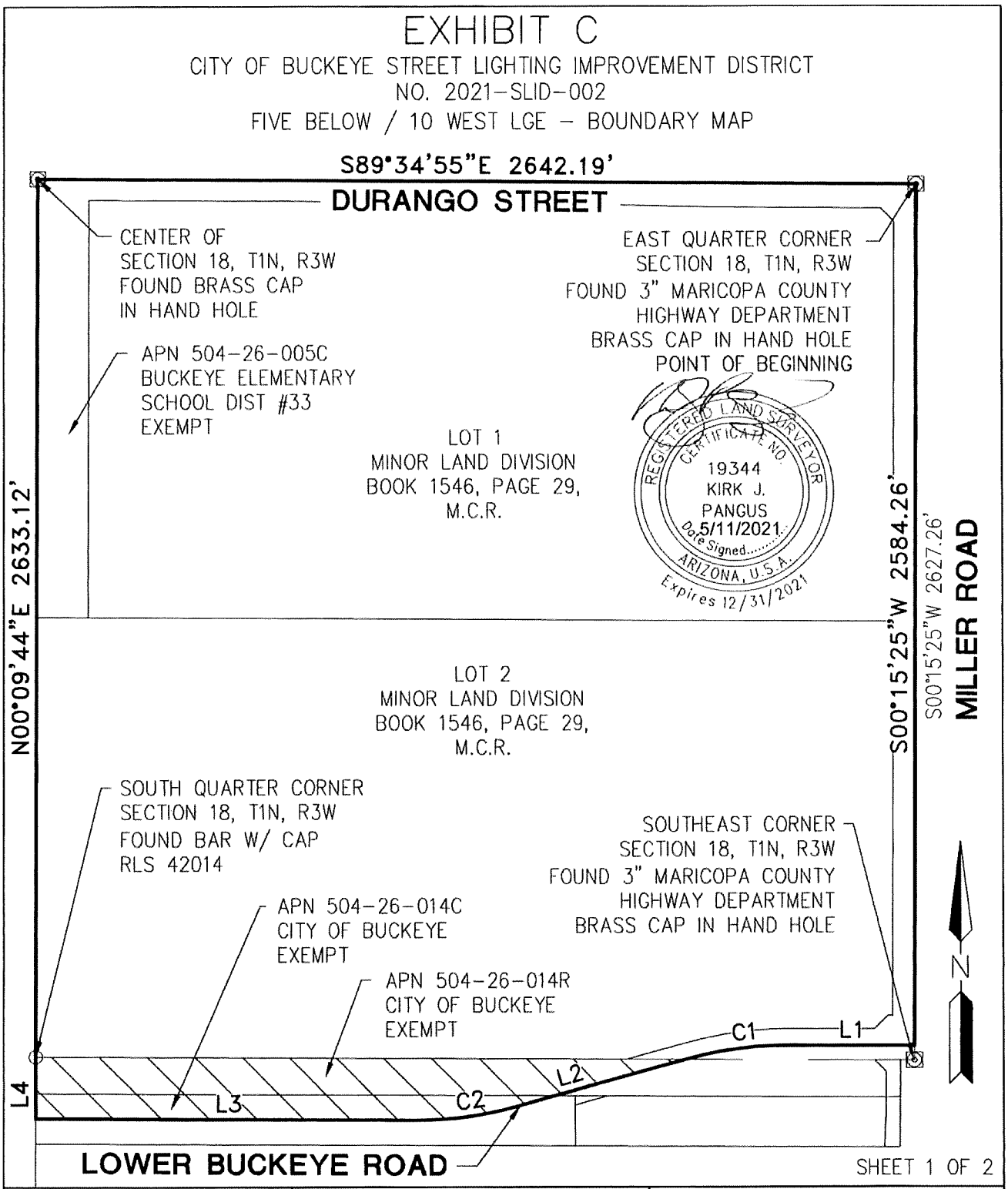
EXHIBIT C

CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE – BOUNDARY MAP



SHEET 1 OF 2

PROJ.NO.:	2186
DATE:	MAY 2021
SCALE:	N.T.S.
DRAWN BY:	JDL
CHECKED BY:	KJP

FIVE BELOW / 10 WEST LGE
S.W.C. OF MILLER RD. & DURANGO ST.
BUCKEYE, ARIZONA
STREET LIGHT IMPROVEMENT DISTRICT

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EXHIBIT C

CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE – BOUNDARY MAP

LINE TABLE		
LINE NO.	DIRECTION	LENGTH
L1	N89°42'34"W	385.05'
L2	S74°35'41"W	540.10'
L3	N89°42'34"W	1136.26'
L4	N00°07'56"W	185.19'

CURVE TABLE			
CURVE NO.	RADIUS	DELTA	LENGTH
C1	1100.00'	15°41'45"	301.34'
C2	1100.00'	15°41'45"	301.34'



SHEET 2 OF 2

PROJ.NO.:	2186
DATE:	MAY 2021
SCALE:	NONE
DRAWN BY:	JDL
CHECKED BY:	KJP

FIVE BELOW / 10 WEST LGE
S.W.C. OF MILLER RD. & DURANGO ST.
BUCKEYE, ARIZONA
STREET LIGHT IMPROVEMENT DISTRICT

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When Recorded, Return to:

Lucinda J. Aja, City Clerk
City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326

RESOLUTION NO. 51-21

A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF BUCKEYE, ARIZONA, ACCEPTING A PETITION FOR FORMATION OF A STREET LIGHTING IMPROVEMENT DISTRICT; DECLARING ITS INTENTION TO FORM A STREET LIGHTING IMPROVEMENT DISTRICT; DESIGNATING SUCH DISTRICT AS THE "CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT NO. 2021-SLID-002"; PROVIDING FOR THE ANNUAL LEVY OF TAXES OR ASSESSMENTS EQUALLY APPORTIONED UPON ALL OF THE NON-PUBLIC PROPERTY OWNERS IN THE DISTRICT TO PURCHASE ENERGY FOR THE LIGHTING OF PUBLIC STREETS AND PARKS WITHIN AND ADJACENT TO THE DISTRICT; AND ORDERING RECORDING AND FILING OF THIS RESOLUTION.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF BUCKEYE, ARIZONA, as follows:

Section 1. Acceptance and Findings. A Petition for the formation of the City of Buckeye Street Lighting Improvement District No. 2021-SLID-02 to purchase (and not generate) energy for street and public park lighting within the District and streets adjacent thereto has been filed with the Clerk and presented to the Governing Body of the City. The Petition is accepted. The Petition purports to be signed by all of the non-public real property owners in the proposed District, exclusive of mortgagees and other lienholders. After verification of such ownership, the Governing Body finds that the Petition was signed by all of the real property owners in the proposed District, exclusive of mortgagees and other lienholders or the owners of any Public Property.

Section 2. Definitions. In this Resolution, the following terms shall have the following meanings:

"*APS*" shall mean the Arizona Public Service Company.

"*City*" shall mean the City of Buckeye, Arizona.

"*Clerk*" shall mean the Clerk of the City, located at 530 East Monroe Avenue, Buckeye, Arizona 85326.

"*Director*" shall mean the Director of the Arizona Department of Revenue.

"*District*" shall mean the City of Buckeye Street Lighting Improvement District No. 2021-SLID-002, as described by the legal description, Assessor's parcel numbers, and map in *Exhibits A*, *B* and *C* attached hereto and incorporated by reference herein.

"*Governing Body*" shall mean the Mayor and City Council of the City.

"*Incidental Expenses*" shall mean the costs of posting, publication, mailing, recording, engineering and legal fees with respect to the formation of the District and the annual levy of taxes.

"*Petition*" shall mean the Petition, Waiver, and Consent to Formation of a Street Lighting Improvement District by the City of Buckeye, requesting formation of the District, on file in the Clerk's office.

"*Public Property*" shall mean any lot or parcel belonging to the United States; the state of Arizona (the "*State*"); any county, city, town, school district or political subdivision; or any institution of the State or county that is physically located within the District, including without limitation any public street, avenue, alley or public easement located within the District hereinafter dedicated to public use.

"*Street Lighting System*" shall mean all publicly owned street and traffic lights and all wire, apparatus and other facilities now in place or hereafter constructed or acquired for the lighting of public streets and parks within the District and on streets adjacent to the District.

"*Work*" shall mean the purchasing of energy for the operation of the Street Lighting System.

Section 3. Declaration of Intention to Order Formation of the District. The public interest and convenience require, and it is the intention of the Governing Body to order, the Work through formation of the District pursuant to A.R.S. Title 48, Chapter 4, Article 2. The District's sole purpose shall be the purchase, not generation, of energy to operate the Street Lighting System, including as it is hereafter modified or enlarged. The District shall encompass the property described on *Exhibits A*, *B*, and *C*, attached hereto. The Assessor's parcel numbers shown on *Exhibit B* are for convenience only. If either *Exhibit A* or *Exhibit B* or both conflict with *Exhibit C*, *Exhibit C* shall govern and be determinative of a parcel's inclusion within, or exclusion from, the District, subject to the restrictions of Section 5 of this Resolution. For purposes of this Resolution and of all resolutions, ordinances and notices pertaining hereto, the District shall be known as and is hereby designated as "City of Buckeye Street Lighting Improvement District No. 2021-SLID-002".

Section 4. Statutory Authority; Payment of Incidental Expenses. All proceedings pertaining to the District shall be done under and as authorized by A.R.S. Title 48, Chapter 4, Article 2, and all amendments thereto including, without limitation, A.R.S. §§ 48-616 and -617. All Incidental Expenses shall become the obligation of the District.

Section 5. Excluded Property. No Public Property or property owned by a homeowners' association will be liable to pay any portion of the District's costs and expenses. Additionally, any public streets, avenues, alleys, or public easements hereafter dedicated to public use shall become exempt after such dedication.

Section 6. Protests and Objections to Extent of District. In the Petition, the signers have made written consents and waivers pertaining to the ordering of the Work and to the formation of the District and has specifically waived all protests against formation of, and objections to, the extent of the District. City staff has verified that all non-public real property owners within the District have signed the Petition, and the Governing Body finds as a fact that all non-public property owners within the District have signed such Petition. Therefore, pursuant to A.R.S. § 48-617(A), no publication, mailing or posting of any notice pertaining to formation of the District will be made.

Section 7. Engineer's Estimate, Plans and Specifications. As financing for the acquisition and construction of the initial Street Lighting System has been, or will be, provided, the District's sole purpose will be to purchase, and not generate, energy to operate the Street Lighting System. No engineer's estimate, plans, or specifications have been filed with the Clerk. In the Petition, all owners of land within the District specifically waived the filing of an engineer's estimate, plans, or specifications.

Section 8. Determination of Type of Lighting and Consideration of the Rate to be Paid. The type of lighting shall be the type now in place within the District, to be operated nightly from dusk to dawn, or such other lighting facilities as may be acquired in the future by the City or some other entity for use within the District. The District's costs and expenses of purchasing energy for the operation of the Street Lighting System are subject to change due to inflation, new construction, new technology, updated APS rate schedules as approved by the Arizona Corporation Commission, updated APS or City specifications as approved by the City Engineer, or acquisition of additional portions of the Street Lighting System.

Section 9. Recordation. A certified copy of this Resolution shall be recorded in the office of the Maricopa County Recorder within ten (10) days of its adoption to give notice of formation of the District, as required by A.R.S. § 48-574(M).

Section 10. Extension for Filing. If either the formation of the District occurs after November 1 of the year preceding the year in which initial assessments are to be levied, or the resolution ordering the Work is not filed with both the Arizona Department of Revenue and the Maricopa County Assessor prior to such November 1, the Mayor and Council hereby request that the Director of the Arizona Department of Revenue extend the deadline prescribed by A.R.S. § 42-17257(A) to December 20, 2021 to allow the City to file the required information. If for any reason the information contained in this Resolution is insufficient, or the District is not formed until after December 20, 2021, then a preliminary filing (prior to December 20) will be made pursuant to A.R.S. § 42-17257(C).

PASSED AND ADOPTED by the Mayor and City Council of the City of Buckeye, Arizona, this 17th day of August, 2021.

Eric W. Orsborn, Mayor

ATTEST:

Lucinda J. Aja, City Clerk

APPROVED AS TO FORM:

Shiela B. Schmidt, City Attorney

Attachments
Exhibit A – Legal Description
Exhibit B – Assessor's Parcel Numbers
Exhibit C – Boundary Map

CERTIFICATION

I, Lucinda J. Aja, the duly appointed and acting Clerk of the City of Buckeye, Arizona, do hereby certify that the above and foregoing Resolution No. 51-21 was duly passed by the Mayor and Council of the City of Buckeye, Arizona, at a regular meeting held on August 17, 2021, and the vote was ____ aye's, ____ nay's, ____ abstained and ____ were absent and that the Mayor and ___ Council Members were present thereat.

DATED: August 17, 2021.

Lucinda J. Aja, City Clerk

EXHIBIT A
CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE
LEGAL DESCRIPTION

A portion of the Southeast quarter of Section 18 and a portion of the Northeast quarter of Section 19, Township 1 North, Range 3 West of the Gila and Salt River Meridian, Maricopa County, Arizona, including Lots 1 and 2 of the Minor Land Division for "Miller and Durango 63", as recorded in Book 1546, Page 29, said records of Maricopa County, Arizona, said Street Light Improvement District being more particularly described as follows:

BEGINNING at a found 3 inch Maricopa County Highway Department brass cap in hand hole accepted as the East quarter corner of said Section 18, from which a found 3 inch Maricopa County Highway Department brass cap in hand hole accepted as the Southeast corner thereof bears South 00°15'25" West, 2627.26 feet;

Thence South 00°15'25" West, 2584.26 feet along the east line of said Southeast quarter to the intersection of said east line and the centerline of Lower Buckeye Road;

Thence leaving said east line and along said centerline the following 5 courses:

Thence North 89°42'34" West, 385.05 feet to the beginning of a tangent curve, concave southerly, having a radius of 1100.00 feet;

Thence westerly along said curve, through a central angle of 15°41'45", an arc length of 301.34 feet to a tangent line;

Thence South 74°35'41" West, 540.10 feet to the beginning of a tangent curve, concave northerly, having a radius of 1100.00 feet;

Thence westerly along said curve, through a central angle of 15°41'45", an arc length of 301.34 feet to a tangent line;

Thence North 89°42'34" West, 1136.26 feet to the west line of said Northeast quarter;

Thence leaving said centerline and along said west line, North 00°07'56" West, 185.19 feet to the South quarter corner of said Section 18;

Thence North 00°09'44" East, 2633.12 feet along the west line of said Southeast quarter to the Center of said Section 18;

Thence South 89°34'55" East, 2642.19 feet along the north line of said Southeast quarter to the **POINT OF BEGINNING**.

The above described parcel contains a computed area of 7,216,948 sq. ft. (165.6783 acres) more or less and being subject to any easements, restrictions, rights-of-way of record or otherwise.

The description shown hereon is not to be used to violate any subdivision regulation of the state, County and/or municipality or any land division restrictions.

Prepared by: HILGARTWILSON, LLC
2141 E. Highland Avenue, Suite 250
Phoenix, AZ 85016
Project No. 2186
Date: May 2021



Expires 12/31/2021

EXHIBIT B

CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE
ASSESSOR PARCEL NUMBERS

ASSESSOR PARCEL NUMBER	OWNER
504-26-008J	FIVE BELOW INC
504-26-008K	CRE-COMMERCE AZ OWNER LLC
504-26-005C	BUCKEYE ELEMENTARY SCHOOL DIST #33 EXEMPT
504-26-014C	CITY OF BUCKEYE EXEMPT
504-26-014R	CITY OF BUCKEYE EXEMPT



PROJ.NO.: 2186	FIVE BELOW / 10 WEST LGE S.W.C. OF MILLER RD. & DURANGO ST. BUCKEYE, ARIZONA	HILGARTWILSON 2141 E. HIGHLAND AVE., STE. 250 PHOENIX, AZ 85016 P: 602.490.0535 / F: 602.368.2436
DATE: MAY 2021		
SCALE: NONE		
DRAWN BY: JDL	STREET LIGHT IMPROVEMENT DISTRICT	
CHECKED BY: KJP		

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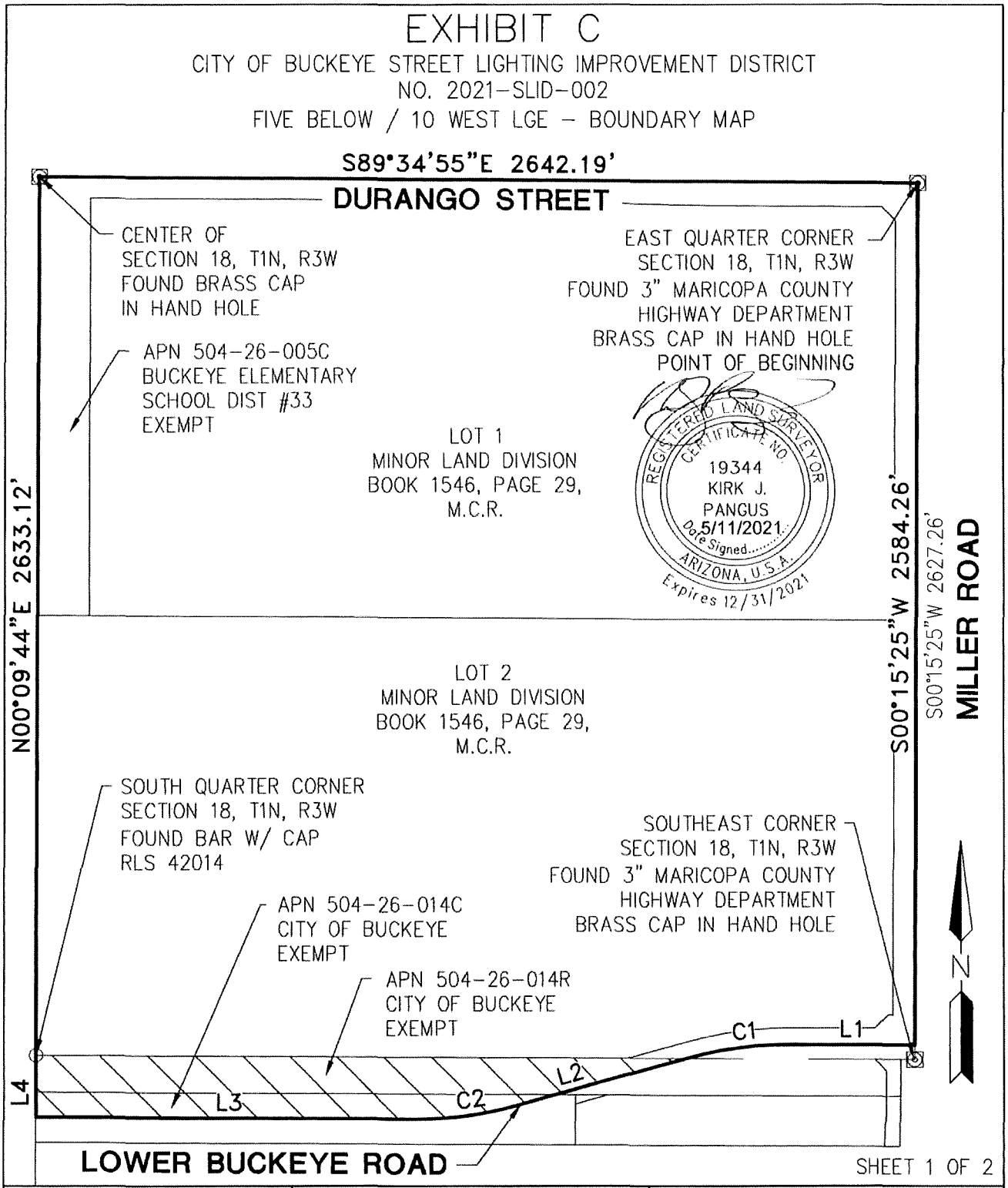
EXHIBIT C

CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE – BOUNDARY MAP



SHEET 1 OF 2

PROJ.NO.:	2186
DATE:	MAY 2021
SCALE:	N.T.S.
DRAWN BY:	JDL
CHECKED BY:	KJP

FIVE BELOW / 10 WEST LGE
S.W.C. OF MILLER RD. & DURANGO ST.
BUCKEYE, ARIZONA

STREET LIGHT IMPROVEMENT DISTRICT

HILGARTWILSON
2141 E. HIGHLAND AVE., STE. 250
PHOENIX, AZ 85016
P: 602.490.0535 / F: 602.368.2436

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EXHIBIT C

CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE - BOUNDARY MAP

LINE TABLE		
LINE NO.	DIRECTION	LENGTH
L1	N89°42'34"W	385.05'
L2	S74°35'41"W	540.10'
L3	N89°42'34"W	1136.26'
L4	N00°07'56"W	185.19'

CURVE TABLE			
CURVE NO.	RADIUS	DELTA	LENGTH
C1	1100.00'	15°41'45"	301.34'
C2	1100.00'	15°41'45"	301.34'



SHEET 2 OF 2

PROJ.NO.: 2186	FIVE BELOW / 10 WEST LGE	HILGARTWILSON
DATE: MAY 2021	S.W.C. OF MILLER RD. & DURANGO ST.	2141 E. HIGHLAND AVE., STE. 250
SCALE: NONE	BUCKEYE, ARIZONA	PHOENIX, AZ 85016
DRAWN BY: JDL	STREET LIGHT IMPROVEMENT DISTRICT	P: 602.490.0535 / F: 602.368.2436
CHECKED BY: KJP		

©2021, HILGARTWILSON, LLC

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CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.Q. Resolution No. 52-21, Ordering Work of Street Lighting Improvement District No. 2021-SLID-002 Five Below/LGE.
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 3
STAFF LIAISON: Scott Lowe, Public Works Director, slowe@buckeyeaz.gov, (623) 349-6815	
DEPARTMENT: Public Works	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on Resolution No. 52-21 ordering the Work as described in Resolution No. 51-21 forming City of Buckeye Street Lighting Improvement District No. 2021-SLID-002; and ordering recording and filing of this Resolution.

RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

ADDITIONAL RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:
Street Lighting Improvement Districts (SLIDs) are formed in the City of Buckeye to assess the owners within the development for the cost of the electricity for the street lights within the boundaries of a SLID, including any public road street lighting that is benefit to the SLID. SLIDs are established to purchase (and not generate) energy for street or public park lighting within a SLID and adjacent streets so that the cost are not borne by the City in its general HURF fund; though there are administrative services provided by the City.

BENEFITS:
Both SLIDs and Maintenance Improvement Districts (MIDs) provide for the benefit of ensuring that there is a balance of revenue and expenditures to provide for the quality of life for the residents/owners of a particular development without an undue burden upon the existing community. SLIDs ensure that only the owners that benefit from the lighting in their community pay for that service. Having the costs of street and public park lighting within a District borne by the owners in a SLID ensures that the revenue needed to fund these costs is always in place.

FUTURE ACTION:
The Resolution will be recorded and a conformed copy delivered to the Maricopa County Assessor and the Arizona Department of Revenue within ten (10) business days of Council action to ensure that this District is on the tax rolls for fiscal year 2022/2023.

FINANCIAL IMPACT STATEMENT:

Assessment will be made on each of the parcel within the District during FY 2022-2023.

CURRENT FISCAL YEAR TOTAL COST:
N/A

BUDGETED:
No

FUND/DEPARTMENT:
SLID budget

Items related to a project or facility location must include an attached vicinity map for Council Review.

ATTACHMENTS:
Five Below-10 West LGE SLID-1.pdf
RES 52-21 2021-SLID-002 .pdf

When Recorded, Return to:

Lucinda J. Aja, City Clerk
City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326

PETITION, WAIVER AND CONSENT TO FORMATION OF A STREET LIGHTING IMPROVEMENT DISTRICT BY THE CITY OF BUCKEYE

FIVE BELOW / 10 WEST LGE
2021-SLID-002

To: Honorable Mayor and Councilmembers
City of Buckeye, Arizona

Pursuant to Arizona Revised Statutes ("*A.R.S.*") Title 48, Chapter 4, Article 2 (the "*Improvement District Law*"), the undersigned, as authorized representatives of owners of non-public real property (together, the "*Petitioners*") within the City of Buckeye, Arizona (the "*City*"), respectfully petition the Mayor and City Council (the "*City Council*") of the City to order the formation of a street lighting improvement district under the Improvement District Law. In support of this Petition, Waiver and Consent to Formation of a Street Lighting Improvement District by the City of Buckeye (this "*Petition*"), the Petitioners agree to waive certain rights under the Improvement District Law and hereby consent to the formation of a street lighting improvement district encompassing the land shown on *Exhibits A*, *B*, and *C*, attached hereto and incorporated by reference herein.

1. Name of District. The Petitioners hereby request the proposed district to be named the "City of Buckeye Street Lighting Improvement District No. 2021-SLID-002" (the "*District*").

2. Area of District. The property comprising the proposed District is described by a legal description, Assessor's parcel numbers, and a map or plat of the area, all as set forth in *Exhibits A*, *B*, and *C*. Such property is entirely within the corporate boundaries of the City. The Petitioners respectfully request that the property shown on *Exhibits A*, *B* and *C* be included within the District. The Assessor's parcel numbers set forth in *Exhibit B* are for convenience only. Should either the legal description set forth in *Exhibit A* or the Assessor's parcel numbers set forth in *Exhibit B* conflict with *Exhibit C*, *Exhibit C* shall govern.

3. Ownership. The Petitioners are the sole owners of all non-public real property within the proposed District.

4. Purpose. The District is proposed to be formed for the purpose of purchasing, and not generating, energy for street and public park lighting.

5. Public Convenience and Necessity. Public convenience, necessity and welfare will be promoted by the formation of the District, the inclusion of the property described in *Exhibits A*, *B*, and *C* within the District, and the levying of an annual ad valorem tax or equal apportionment of taxes upon all of the non-public real property within the District as provided in A.R.S. § 48-616(C).

6. Fees and Reimbursement. The Petitioners have paid all application fees for the formation of the District and further agree to reimburse the City for all reasonable legal and engineering fees and costs incurred by the City with respect to the formation of the District.

7. Expansion of or Annexation to the District. The Petitioners waive any objection to, or protest against, any future enlargement or enlargements of the District and also waive all notices of such enlargement or enlargements, whether required to be published, posted, or mailed with respect to the later enlargement of the District's boundaries. The Petitioners further waive any objection to, or protest against, the consolidation of the District with any other similar district or districts.

8. Waiver and Consent. The Petitioners, with full knowledge of their rights being waived hereunder, hereby expressly waive:

a) The right to challenge or object to any and all irregularities, illegalities or deficiencies which may exist in the acts or proceedings resulting in the resolution of intention and the resolution ordering the work relating to the formation of the District;

b) The right to challenge or object to any and all irregularities, illegalities or deficiencies which may exist in the acts or proceedings that result in the adoption of any and all future resolutions of intention, resolutions ordering work, resolutions enlarging the District, and notices pertaining thereto;

c) Any necessity for publication, posting, mailing, or recording of any resolution(s) of intention, resolution(s) ordering work, resolution(s) enlarging the District, or notices of proposed improvements as described in A.R.S. §§ 48-578 and 48-581;

d) All protest rights whatsoever under A.R.S. § 48-579(A) and (B), which provide for protests against the work;

e) All objections to the extent of the District under A.R.S. § 48-579(C);

f) All objections to the lack of plans and specifications, the engineer's estimate and an assessment diagram, all of which are unnecessary for completion of the District's formation or purpose; and

g) Any necessity for any notice or hearing with respect to land owned by the Petitioners now within the proposed boundaries of the District.

9. Equal Apportionment. The Petitioners hereby petition the City Council to equally apportion the District's annual taxes based on the number and classification of properties within the District pursuant to A.R.S. § 48-616(J). The Petitioners further request that no publicly owned land or property owned by a homeowners' association shall be liable to pay any expenses of the District.

10. Waiver of Petition. This Petition shall be deemed to be a petition of more than one-half (1/2) of the taxable property units and more than one-half (1/2) of the assessed valuation within the District and as such shall also be deemed to be a waiver of any and all requirements to file a petition under A.R.S. § 48-576, as amended.

11. Public Benefit. The purchasing of energy to operate street lighting improvements within the District is of more than local or ordinary public benefit and should be charged against the property within the District, all of which will benefit thereby.

12. Successors and Assigns. To the extent permitted by law, this Petition shall be binding on all successors or assigns of the Petitioners who hereafter own or have an interest in the property described in *Exhibits A*, *B*, and *C* attached hereto.

13. Recordation. This Petition may be recorded in the office of the Maricopa County Recorder and in the office of the Superintendent of Streets of the City.

14. Counterparts. For convenience, this Petition may be executed in one or more counterparts and each executed counterpart shall for all purposes be deemed an original and shall have the same force and effect as an original, but all of which together shall constitute in the aggregate but one and the same instrument.

The Petitioners hereby request the City Council of the City to adopt a resolution of intention to order the proposed improvements and to proceed with the improvements requested herein.

IN WITNESS WHEREOF, the undersigned representatives of the Petitioners have executed this Petition as of the dates shown below.

[Signature Pages to Follow]

FIVE BELOW, INC.,
a Pennsylvania corporation

By: _____

Name: Ronald Mascia

Title: SVP General Counsel

Date: 7/22/21

STATE OF Pennsylvania)
) ss.
COUNTY OF Philadelphia)

On this 22nd day of July, 2021, before me personally appeared Ronald Mascia, the SVP & General Counsel of FIVE BELOW, INC., a Pennsylvania corporation, whose identity was proven to me on the basis of satisfactory evidence to be the person who he/she claims to be, and acknowledged that he/she signed the Petition on behalf of the corporation.

I certify under PENALTY OF PERJURY under the laws of the State of Pennsylvania that the foregoing paragraph is true and correct.

_____
Notary Public in and for the State of Pennsylvania

(Seal and Expiration Date)

Commonwealth of Pennsylvania - Notary Seal
JOELIE WHITE - Notary Public
Philadelphia County
My Commission Expires July 27, 2025
Commission Number 1317417

SBS:sbm 4130282.1 5/19/2021

CRE-COMMERCE AZ OWNER LLC,
a Delaware limited liability company

By: CRE-COMMERCE AZ HOLDINGS LLC,
a Delaware limited liability company
Its: Manager

By: _____

Name: DAVID E. SELLERS

Title: AUTHORIZED SIGNATORY

Date: 6/22/2021

STATE OF AZ)
) ss.
COUNTY OF Maricopa)

On this 22 day of June, 2021, before me personally appeared David Sellers, the authorized signatory of CRE-COMMERCE AZ HOLDINGS LLC, a Delaware limited liability company, the Manager of CRE-COMMERCE AZ OWNER LLC, a Delaware limited liability company, whose identity was proven to me on the basis of satisfactory evidence to be the person who he/she claims to be, and acknowledged that he/she signed the Petition on behalf of the limited liability company.

I certify under PENALTY OF PERJURY under the laws of the State of AZ that the foregoing paragraph is true and correct.

Kayla Miller
Notary Public in and for the State of AZ

(Seal and Expiration Date)

KAYLA S. MILLER
Notary Public - State of Arizona
MARICOPA COUNTY
Commission # 577986
Expires December 4, 2023

SBS:sbm 4130282.1 5/19/2021

RECEIPT this ____ day of _____, 2021, of the foregoing Petition is hereby acknowledged by the City Clerk of the City of Buckeye, Arizona, who will deliver said Petition to the City Council for action.

_____

Lucinda J. Aja, City Clerk

EXHIBIT A
CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE
LEGAL DESCRIPTION

A portion of the Southeast quarter of Section 18 and a portion of the Northeast quarter of Section 19, Township 1 North, Range 3 West of the Gila and Salt River Meridian, Maricopa County, Arizona, including Lots 1 and 2 of the Minor Land Division for "Miller and Durango 63", as recorded in Book 1546, Page 29, said records of Maricopa County, Arizona, said Street Light Improvement District being more particularly described as follows:

BEGINNING at a found 3 inch Maricopa County Highway Department brass cap in hand hole accepted as the East quarter corner of said Section 18, from which a found 3 inch Maricopa County Highway Department brass cap in hand hole accepted as the Southeast corner thereof bears South 00°15'25" West, 2627.26 feet;

Thence South 00°15'25" West, 2584.26 feet along the east line of said Southeast quarter to the intersection of said east line and the centerline of Lower Buckeye Road;

Thence leaving said east line and along said centerline the following 5 courses:

Thence North 89°42'34" West, 385.05 feet to the beginning of a tangent curve, concave southerly, having a radius of 1100.00 feet;

Thence westerly along said curve, through a central angle of 15°41'45", an arc length of 301.34 feet to a tangent line;

Thence South 74°35'41" West, 540.10 feet to the beginning of a tangent curve, concave northerly, having a radius of 1100.00 feet;

Thence westerly along said curve, through a central angle of 15°41'45", an arc length of 301.34 feet to a tangent line;

Thence North 89°42'34" West, 1136.26 feet to the west line of said Northeast quarter;

Thence leaving said centerline and along said west line, North 00°07'56" West, 185.19 feet to the South quarter corner of said Section 18;

Thence North 00°09'44" East, 2633.12 feet along the west line of said Southeast quarter to the Center of said Section 18;

Thence South 89°34'55" East, 2642.19 feet along the north line of said Southeast quarter to the **POINT OF BEGINNING**.

The above described parcel contains a computed area of 7,216,948 sq. ft. (165.6783 acres) more or less and being subject to any easements, restrictions, rights-of-way of record or otherwise.

The description shown hereon is not to be used to violate any subdivision regulation of the state, County and/or municipality or any land division restrictions.

Prepared by: HILGARTWILSON, LLC
2141 E. Highland Avenue, Suite 250
Phoenix, AZ 85016
Project No. 2186
Date: May 2021



Expires 12/31/2021

EXHIBIT B

CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE
ASSESSOR PARCEL NUMBERS

ASSESSOR PARCEL NUMBER	OWNER
504-26-008J	FIVE BELOW INC
504-26-008K	CRE-COMMERCE AZ OWNER LLC
504-26-005C	BUCKEYE ELEMENTARY SCHOOL DIST #33 EXEMPT
504-26-014C	CITY OF BUCKEYE EXEMPT
504-26-014R	CITY OF BUCKEYE EXEMPT



PROJ.NO.:	2186
DATE:	MAY 2021
SCALE:	NONE
DRAWN BY:	JDL
CHECKED BY:	KJP

FIVE BELOW / 10 WEST LGE
S.W.C. OF MILLER RD. & DURANGO ST.
BUCKEYE, ARIZONA

STREET LIGHT IMPROVEMENT DISTRICT

HILGARTWILSON
2141 E. HIGHLAND AVE., STE. 250
PHOENIX, AZ 85016
P: 602.490.0535 / F: 602.368.2436

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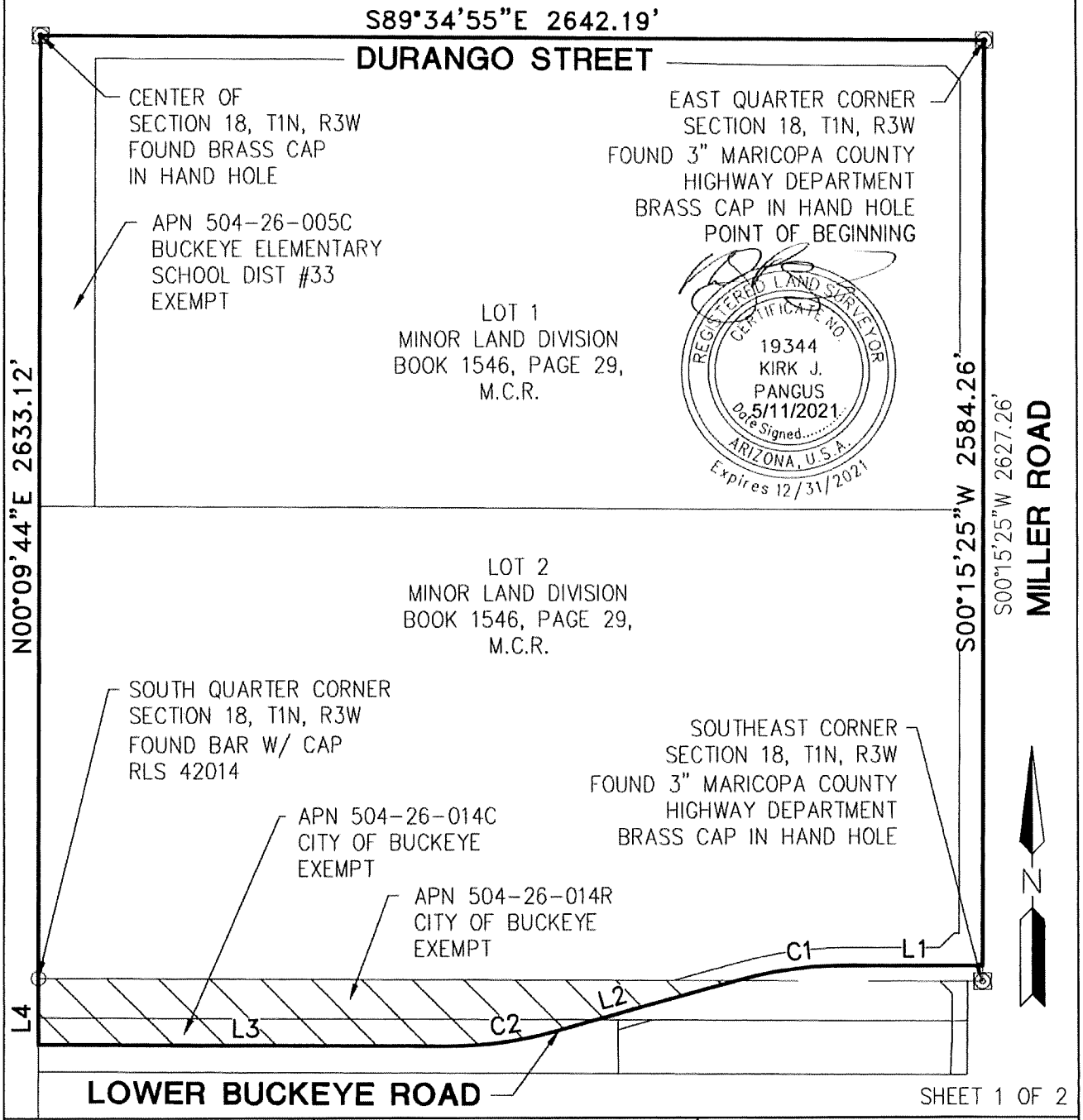
EXHIBIT C

CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE – BOUNDARY MAP



SHEET 1 OF 2

PROJ.NO.:	2186
DATE:	MAY 2021
SCALE:	N.T.S.
DRAWN BY:	JDL
CHECKED BY:	KJP

FIVE BELOW / 10 WEST LGE
S.W.C. OF MILLER RD. & DURANGO ST.
BUCKEYE, ARIZONA
STREET LIGHT IMPROVEMENT DISTRICT

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EXHIBIT C

CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE – BOUNDARY MAP

LINE TABLE		
LINE NO.	DIRECTION	LENGTH
L1	N89°42'34"W	385.05'
L2	S74°35'41"W	540.10'
L3	N89°42'34"W	1136.26'
L4	N00°07'56"W	185.19'

CURVE TABLE			
CURVE NO.	RADIUS	DELTA	LENGTH
C1	1100.00'	15°41'45"	301.34'
C2	1100.00'	15°41'45"	301.34'



SHEET 2 OF 2

PROJ.NO.:	2186
DATE:	MAY 2021
SCALE:	NONE
DRAWN BY:	JDL
CHECKED BY:	KJP

FIVE BELOW / 10 WEST LGE
S.W.C. OF MILLER RD. & DURANGO ST.
BUCKEYE, ARIZONA
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When Recorded, Return to:

Lucinda J. Aja, City Clerk
City of Buckeye
530 East Monroe Avenue
Buckeye, Arizona 85326

RESOLUTION NO. 52-21

A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF BUCKEYE, ARIZONA, ORDERING THE WORK AS DESCRIBED IN RESOLUTION NO. 51-21 FORMING CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT NO. 2021-SLID-002; AND ORDERING RECORDING AND FILING OF THIS RESOLUTION.

WHEREAS, on August 17, 2021, the Mayor and City Council of the City of Buckeye, Arizona (the "*City*") passed and adopted Resolution No. 51-21 (the "*Resolution of Intention*"), which Resolution of Intention declared the Mayor and Council's intention to form the City of Buckeye Street Lighting Improvement District No. 2021-SLID-002 (the "*District*"), within the area known as the southwest corner of Miller Road and Durango Street, solely for the purpose of purchasing energy for lighting of the public streets within and adjacent to the District; and

WHEREAS, a petition (the "*Petition*") for the formation of the District was presented to the Mayor and Council, which Petition purported to be signed by all of the non-public real property owners in the proposed District, exclusive of mortgagees and other lienholders; and

WHEREAS, the Mayor and Council found that the Petition was signed by all such owners and have verified such finding of such fact; and

WHEREAS, in the Petition the signer waived all protests against the proposed Work (as defined in the Resolution of Intention), all objections to the extent of the District, all publication, posting and mailing of the Resolution of Intention, and the passage of time between adoption of the Resolution of Intention and this Resolution; and

WHEREAS, pursuant to A.R.S. §§ 48-616 and -617, the Mayor and Council hereby find and determine that they have jurisdiction to order the Work of purchasing energy for lighting of public streets and parks within the District and hereby order the formation of the District described in the Resolution of Intention;

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF BUCKEYE, ARIZONA, as follows:

Section 1. Ordering the Work and District Formation. All protests against the Work, or the formation of the District, and all objections to the extent of the District being waived by the owners of all non-public real property within the District, exclusive of mortgagees and lienholders, pursuant to A.R.S. §§ 48-616 and -617, the Work, as described in the Resolution of

Intention, is hereby ordered and the formation of the City of Buckeye Street Lighting Improvement District No. 2021-SLID-002 is hereby ordered. The District shall encompass the property described on *Exhibits A*, *B*, and *C*, attached hereto and incorporated by reference herein. The Assessor's parcel numbers shown on *Exhibit B* are for convenience only. If either *Exhibit A* or *Exhibit B* or both conflict with *Exhibit C*, *Exhibit C* shall govern and be determinative of a parcel's inclusion within, or exclusion from, the District, subject to the restrictions of Section 2 of this Resolution.

Section 2. Excluded Property. No publicly owned land or property owned by a homeowners' association will be liable to pay any portion of the District's costs and expenses. This exclusion shall apply to all public streets, avenues, alleys, or public easements within the District that may hereafter be dedicated to public use.

Section 3. Annual Tax or Annual Assessment. Subject to the restrictions of Section 2 of this Resolution, the City shall annually, commencing in tax year 2021 and for the City's 2021-2022 fiscal year, make annual statements and estimates of the expenses of the District and shall submit the same to the Board of Supervisors of Maricopa County for the levy and collection of ad valorem taxes upon the assessed value of all taxable property, real and personal, in the District or by equal apportionment of taxes based on the number and classification of properties within the District, and shall publish notice of the statements and estimates, hold hearings on them and adopt them at the times and in the manner provided for incorporated cities and cities' statements and estimates by applicable portions of Title 42, Chapter 17, Article 3, Arizona Revised Statutes, and shall annually set, fix and cause to be levied and assessed the amount to be raised by ad valorem taxes upon all of the taxable property of the District or by an equal annual charge and shall cause to be collected, as county taxes are collected, the amounts shown by the statements and estimates so adopted by the Mayor and Council. As provided in A.R.S. § 48-616, all statutes providing for the levy and collection of general county taxes, including collection of delinquent taxes and sale of property for nonpayment of taxes, are applicable to the District taxes as provided to be levied by this section.

Section 4. Recording and Filing. The City Clerk is ordered and directed to cause a certified copy of this Resolution to be recorded in the office of the Maricopa County Recorder. The City Clerk is further ordered and directed to file certified copies of this Resolution with the Arizona Department of Revenue (the "*Department*") and the Maricopa County Assessor, pursuant to A.R.S. § 42-17257, together with all other information prescribed by the Director of the Department relating to the boundaries of newly created taxing jurisdictions.

Section 5. Extension for Filing. If either the formation of the District occurs after November 1 of the year preceding the year in which initial taxes are to be levied, or this Resolution is not filed with both the Department and the Maricopa County Assessor prior to such November 1, the Mayor and Council hereby request that the Director of the Department extend the deadline prescribed by A.R.S. § 42-17257(A) to December 20, 2021 to allow the City to file the required information. If for any reason the information contained in this Resolution is insufficient, or the District is not formed until after December 20, 2021, then a preliminary filing (prior to December 20) will be made pursuant to A.R.S. § 42-17257(C).

PASSED AND ADOPTED by the Mayor and City Council of the City of Buckeye, Arizona on August 17, 2021.

Eric W. Orsborn, Mayor

ATTEST:

Lucinda J. Aja, City Clerk

APPROVED AS TO FORM:

Shiela B. Schmidt, City Attorney

Attachments
Exhibit A: Legal Description
Exhibit B: Assessor's Parcel Numbers
Exhibit C: Boundary Map

CERTIFICATION

I, Lucinda J. Aja, the duly appointed and acting Clerk of the City of Buckeye, Arizona, do hereby certify that the above and foregoing Resolution No. 52-21 was duly passed by the Mayor and Council of the City of Buckeye, Arizona, at a regular meeting held on August 17, 2021, and the vote was _____ aye's, _____ nay's, _____ abstained and _____ were absent and that the Mayor and ___ Council Members were present thereat.

DATED: August 17, 2021.

Lucinda J. Aja, City Clerk

EXHIBIT A
CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE
LEGAL DESCRIPTION

A portion of the Southeast quarter of Section 18 and a portion of the Northeast quarter of Section 19, Township 1 North, Range 3 West of the Gila and Salt River Meridian, Maricopa County, Arizona, including Lots 1 and 2 of the Minor Land Division for "Miller and Durango 63", as recorded in Book 1546, Page 29, said records of Maricopa County, Arizona, said Street Light Improvement District being more particularly described as follows:

BEGINNING at a found 3 inch Maricopa County Highway Department brass cap in hand hole accepted as the East quarter corner of said Section 18, from which a found 3 inch Maricopa County Highway Department brass cap in hand hole accepted as the Southeast corner thereof bears South 00°15'25" West, 2627.26 feet;

Thence South 00°15'25" West, 2584.26 feet along the east line of said Southeast quarter to the intersection of said east line and the centerline of Lower Buckeye Road;

Thence leaving said east line and along said centerline the following 5 courses:

Thence North 89°42'34" West, 385.05 feet to the beginning of a tangent curve, concave southerly, having a radius of 1100.00 feet;

Thence westerly along said curve, through a central angle of 15°41'45", an arc length of 301.34 feet to a tangent line;

Thence South 74°35'41" West, 540.10 feet to the beginning of a tangent curve, concave northerly, having a radius of 1100.00 feet;

Thence westerly along said curve, through a central angle of 15°41'45", an arc length of 301.34 feet to a tangent line;

Thence North 89°42'34" West, 1136.26 feet to the west line of said Northeast quarter;

Thence leaving said centerline and along said west line, North 00°07'56" West, 185.19 feet to the South quarter corner of said Section 18;

Thence North 00°09'44" East, 2633.12 feet along the west line of said Southeast quarter to the Center of said Section 18;

Thence South 89°34'55" East, 2642.19 feet along the north line of said Southeast quarter to the **POINT OF BEGINNING**.

The above described parcel contains a computed area of 7,216,948 sq. ft. (165.6783 acres) more or less and being subject to any easements, restrictions, rights-of-way of record or otherwise.

The description shown hereon is not to be used to violate any subdivision regulation of the state, County and/or municipality or any land division restrictions.

Prepared by: HILGARTWILSON, LLC
2141 E. Highland Avenue, Suite 250
Phoenix, AZ 85016
Project No. 2186
Date: May 2021



Expires 12/31/2021

EXHIBIT B

CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE
ASSESSOR PARCEL NUMBERS

ASSESSOR PARCEL NUMBER	OWNER
504-26-008J	FIVE BELOW INC
504-26-008K	CRE-COMMERCE AZ OWNER LLC
504-26-005C	BUCKEYE ELEMENTARY SCHOOL DIST #33 EXEMPT
504-26-014C	CITY OF BUCKEYE EXEMPT
504-26-014R	CITY OF BUCKEYE EXEMPT



PROJ.NO.:	2186
DATE:	MAY 2021
SCALE:	NONE
DRAWN BY:	JDL
CHECKED BY:	KJP

FIVE BELOW / 10 WEST LGE
S.W.C. OF MILLER RD. & DURANGO ST.
BUCKEYE, ARIZONA

STREET LIGHT IMPROVEMENT DISTRICT

HILGARTWILSON
2141 E. HIGHLAND AVE., STE. 250
PHOENIX, AZ 85016
P: 602.490.0535 / F: 602.368.2436

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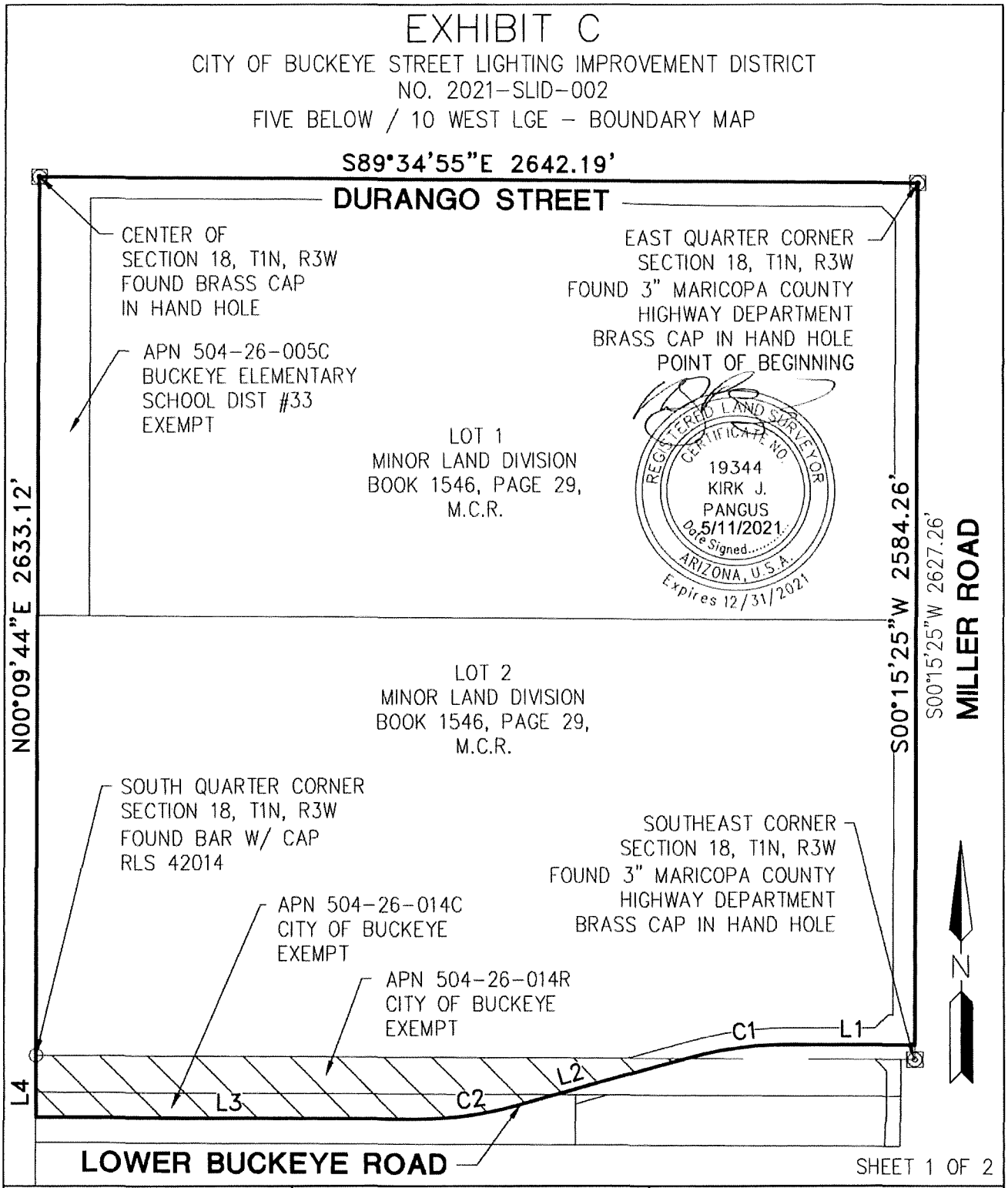
EXHIBIT C

CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE – BOUNDARY MAP



SHEET 1 OF 2

PROJ.NO.:	2186
DATE:	MAY 2021
SCALE:	N.T.S.
DRAWN BY:	JDL
CHECKED BY:	KJP

FIVE BELOW / 10 WEST LGE
S.W.C. OF MILLER RD. & DURANGO ST.
BUCKEYE, ARIZONA

STREET LIGHT IMPROVEMENT DISTRICT

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EXHIBIT C

CITY OF BUCKEYE STREET LIGHTING IMPROVEMENT DISTRICT
NO. 2021-SLID-002
FIVE BELOW / 10 WEST LGE - BOUNDARY MAP

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CURVE TABLE			
CURVE NO.	RADIUS	DELTA	LENGTH
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SHEET 2 OF 2

PROJ.NO.:	2186	FIVE BELOW / 10 WEST LGE S.W.C. OF MILLER RD. & DURANGO ST. BUCKEYE, ARIZONA	HILGARTWILSON 2141 E. HIGHLAND AVE., STE. 250 PHOENIX, AZ 85016 P: 602.490.0535 / F: 602.368.2436
DATE:	MAY 2021		
SCALE:	NONE		
DRAWN BY:	JDL	STREET LIGHT IMPROVEMENT DISTRICT	
CHECKED BY:	KJP		

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CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.R. Purchase of Replacement and New Vehicles for Buckeye Police Department
DATE PREPARED: 08/12/21	**DISTRICT NO.:**
STAFF LIAISON: Scott Lowe, Public Works Director , slowe@buckeyeaz.gov, 623-349-6815	
DEPARTMENT: Public Works	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on the expenditure of General Funds to purchase twenty-two (22) vehicles with related emergency lighting and equipment for the Police Department utilizing various State and local contracts for an amount not to exceed $1,400,000; and authorizing the City Manager or designee to execute and deliver all related documents necessary for the purchases.

RELEVANT GOALS:
GOAL 1: Fiscal Wellness and Financial Flexibility and Accountability

SUMMARY

PROJECT DESCRIPTION:

In accordance with the City of Buckeye's Vehicle Replacement Policy there are a total of twelve (12) Police Patrol vehicles and one (1) undercover vehicle that were identified and budgeted as anticipated replacements during fiscal year 21/22. Fleet Management is requesting approval to replace a total of 22 Patrol vehicles, twelve (12) replacement patrol units, one (1) undercover unit, along with the addition of nine (9) new Police Patrol vehicles to the fleet. These additional vehicles will include six (6) new Patrol officers, two (2) new School Resource Officers and one (1) Patrol Sergeant to accommodate the new positions approved this budget year.

BENEFITS:

This request is of an urgent state due the current nationwide microchip shortage that is plaguing the automotive manufacturers across the county. Ordering opportunities are being opened in early August to accept orders until the available quota is achieved and then ordering will be cut off for the 2022 model year thus having to potentially switch manufacturers or wait for the next manufacturer build date for 2023 models. With the uncertainty of the current 2022 model year availability, Fleet Management would like to have these orders ready for submittal as soon as the ordering opens to hopeful have the orders accepted by the manufacturer.

Mechanically sound vehicles are not only lower cost to maintain but are safer to operate and achieve a much high equipment availability over vehicles and equipment that has reached its life expectancy. Dependable fleet equipment is crucial to ensure that Public Safety and City staff are able to provide services to the residents of the City of Buckeye and achieve this while ensuring safety and achieving

minimal cost in doing so. As vehicles progress in their life expectancy, components become prone to increase breakdowns which increases the life cycle maintenance cost while also experiencing increases to the downtime of vehicles and equipment. Higher mileage vehicles are more likely to incur major component failures such as engines or transmissions, these type of failures are not only expensive to the Fleet but it hinders staffs ability to provide services to the residents in a timely manner and fulfilling the mission of the city departments.

FUTURE ACTION:

Lead time for delivery of vehicle can range from three months to a year depending on the complexity of the specification of the equipment once ordered by the Fleet Management Division of Public Works.

FINANCIAL IMPACT STATEMENT:
Police Replacement and Additional Vehicles:
FY21/22 $1,400,000.00
Replacement funding $820,000 - 10003173-541210
Additional vehicle funding $580,000 10002121 - 541210

Courtesy Chevy - AZ State Contract # ADSP017-166120

San Tan Ford – AZ State Contract# ADSP017-166124

LSH Lights/Kenco - City of Mesa Contract# 2018084

Auto Safety House – Maricopa County Contract# 200209

CURRENT FISCAL YEAR TOTAL COST:
Police Replacement and Additional Vehicles:
FY21/22 $1,400,000.00
Replacement funding $820,000.
Additional vehicle funding $580,000.

BUDGETED:
Yes

FISCAL YEAR:
FY2021-2022

FUND/DEPARTMENT:
Public Works

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
2022 Chevy Tahoe PPV 4x2.pdf
2022 F250 Crew Cab 4X2 Short Bed 6-22-21.pdf
2022 F250 Crew Cab 4X4 Short Bed 6-22-21.pdf
Police_Toughbook Computers.pdf

DECKED PU STORAGE BOXES.PDF

PD REAR STORAGE BOXES.PDF
Emergency Lighting_Tahoe.pdf
Police AIMS.pdf
BEAVER STRIPES 2021 TAHOE DECALS.pdf

COURTESY CHEVROLET

4/20/2021

STATE OF ARIZONA
VEHICLE QUOTE
STATE CONTRACT # ADSP017-166120

VEHICLE	**2022 CHEVROLET TAHOE 9C1 PPV 2WD**	**$** 35,033.00
7X3	**LH SPOTLIGHT**	**$** 728.00
9G8	**DLR DELETE**	**$** 45.50
VPV	**KERR SHIP THRU (REQUIRED WITH LH SPOTLIGHT)**	**$** 125.00
	BLACK/WHITE PAINT	**$** 2,900.00

TOTAL	**$** 38,831.50
SALES TAX	$ 3,255.91
TIRE TAX	$ 5.00
GRAND TOTAL	$ 42,092.41

ORDERED UNIT
120-150 DAYS ARO

Vehicle: [Fleet] 2021 Chevrolet Tahoe (CC10706) 2WD 4dr Commercial (Complete)

Selected Model and Options

MODEL

CODE	MODEL	Invoice	MSRP
CC10706	2021 Chevrolet Tahoe 2WD 4dr Commercial	$45,408.00	$48,000.00

COLORS

CODE	DESCRIPTION
GBA	Black

OPTIONS

CODE	DESCRIPTION	Invoice	MSRP
Z56	Suspension Package, heavy-duty, police-rated Full independent suspension with monotube dampers, linear coil springs, 35mm solid front stabilizer bar and 32mm hollow rear stabilizer bar (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
FE9	Emissions, Federal requirements	$0.00	$0.00
L84	Engine, 5.3L EcoTec3 V8 with Dynamic Fuel Management, Direct Injection and Variable Valve Timing, includes aluminum block construction (355 hp [265 kW] @ 5600 rpm, 383 lb-ft of torque [518 Nm] @ 4100 rpm) (STD)	$0.00	$0.00
MQC	Transmission, 10-speed automatic electronically controlled with overdrive, includes Traction Select System including tow/haul (STD)	$0.00	$0.00
C5Z	GVWR, 7200 lbs (3266 kg) (Included and only available with (9C1) Police Package. 2WD model only.)	Inc.	Inc.
GU5	Rear axle, 3.23 ratio	$0.00	$0.00
1FL	Commercial Preferred Equipment Group includes standard equipment	$0.00	$0.00
PXT	Wheels, 20" x 9" (50.8 cm x 22.9 cm) steel (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
XCS	Tires, 275/55R20SL all-season, blackwall, Firestone Firehawk Pursuit (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
GBA	Black	$0.00	$0.00
AZ3	Seats, front 40/20/40 split-bench (STD)	$0.00	$0.00
H1T	Jet Black, cloth seat trim (Requires (9C1) Police Vehicle.)	$0.00	$0.00
IOR	Audio system, Chevrolet Infotainment 3 system, 8" diagonal color touchscreen AM/FM stereo. Additional features for compatible phones include: Bluetooth audio streaming for 2 active devices, voice command pass-through to phone, Apple CarPlay and Android Auto capable. (STD)	$0.00	$0.00

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Data Version: 12340. Data Updated: Nov 12, 2020 10:11:00 PM PST.

GM

Vehicle: [Fleet] 2021 Chevrolet Tahoe (CC10706) 2WD 4dr Commercial (Complete)

OPTIONS

CODE	DESCRIPTION	Invoice	MSRP
9C1	Identifier for Police Package Vehicle includes, (K47) heavy-duty air filter, (KX4) 250 amp high output alternator, (K6K) 760 cold-cranking amps auxiliary battery, electrical power & vehicle signals for customer connection located at the center front floor. Auxiliary battery circuit for customer connection located in the rear cargo area, (Z56) heavy-duty, police-rated suspension, (XCS) 275/55R20SL all-season tires, (RAV) P275/55R20 all-season spare tire, Police brakes, (RC1) front skid plate, (PXT) 20" steel wheels, Certified speedometer, SEO (5J3) Surveillance Mode interior lighting calibration, SEO (UT7) blunt cut cargo area and blunt cut console area ground wires,(V53) delete luggage rack side rails, (ATD) third row seat delete, (NP0) active single-speed transfer case (4WD only).	($3,913.00)	($4,300.00)
AMF	Remote Keyless Entry Package includes 4 additional transmitters, NOTE: programming of remotes is at customer's expense. Programming remotes is not a warranty expense (Requires SEO (6E2) complete vehicle fleet common key or SEO (6E8) complete vehicle fleet common key and requires (9C1) Police Vehicle.)	$68.25	$75.00
V03	Cooling system, extra capacity (Included and only available with (9C1) Police Vehicle or (NHT) Max Trailering Package. Not included when (LM2) Duramax 3.0L Turbo-Diesel I6 engine is ordered.)	Inc.	Inc.
K6K	Battery, auxiliary, 760 cold-cranking amps with 70 amp hour rating (packaged behind left rear cargo area panel) (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
K3W	Battery, 900 cold-cranking amps with 95 amp hour rating (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
KX4	Alternator, 220 amps (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
RC1	Skid plate, front (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
J55	Brake system, heavy duty with front Brembo calipers and 16" front rotors (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
____	Capless Fuel Fill (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
RNQ	Wheel, full-size spare, matching 20" (50.8 cm) steel wheel without center cap (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
RAV	Tire, spare P275/55R20 all-season, blackwall, Firestone Firehawk Pursuit (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
WUA	Fascia, front high-approach angle (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
V53	Luggage rack side rails, delete (Included with (9C1) Police Vehicle.) *CREDIT*	Inc.	Inc.
____	Exterior ornamentation delete (front & rear Chevrolet bowties will remain) (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
ATD	Seat delete, third row passenger (Deletes rear storage compartment.) *CREDIT*	Inc.	Inc.
VZ2	Speedometer calibration (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.

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GM

Vehicle: [Fleet] 2021 Chevrolet Tahoe (CC10706) 2WD 4dr Commercial (✓ Complete)

OPTIONS

CODE	DESCRIPTION	Invoice	MSRP
___	Instrumentation, analog with certified 140 mph speedometer, odometer with trip odometer, engine hour meter, fuel level, voltmeter, engine temperature, oil pressure and tachometer (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
AU7	Key, common, fleet (Requires SEO (6E2) complete vehicle fleet common key or SEO (6E8) complete vehicle fleet common key and (9C1) Police Vehicle.)	$22.75	$25.00
___	Theft-deterrent system, vehicle, PASS-Key III (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
___	Power supply, 50-amp, power supply, auxiliary battery passenger compartment wiring harness (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
___	Power supply, 100-amp, auxiliary battery, rear electrical center (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
___	Power supply, 120-amp, (4) 30-amp circuit, Primary battery relay controlled, passenger compartment harness wiring (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
___	Seat belts, 3-point, all seating positions (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
___	Lane Keep Assist Delete	Inc.	Inc.
R9Y	Fleet Free Maintenance Credit. This option code provides a credit in lieu of the free oil changes, tire rotations and inspections for one maintenance service during 1st year of ownership. The invoice will detail the applicable credit. The customer will be responsible for all oil change, tire rotations and inspections costs for this vehicle. (Requires one of the following Fleet or Government order types: FBC, FBN, FCA, FCN, FEF, FLS, FNR, FRC or FGO. Not available with FDR order types.) *CREDIT*	($30.71)	($33.75)
VXT	Incomplete vehicle (Included and only available with (9C1) Police Vehicle. Included and only available with (ATZ) rear seat delete.)	Inc.	Inc.
___	Protected idle allows vehicle engine to remain idling and vehicle immobilized while FOB is outside vehicle (Included and only available (9C1) Police Vehicle.)	Inc.	Inc.
5J3	Calibration, Surveillance Mode interior lighting (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
5J9	Calibration taillamp flasher, Red/White (Included and only available with SEO (6J7) headlamp and taillamp flasher system. Requires (9C1) Police Vehicle.)	Inc.	Inc.
5LO	Calibration taillamp flasher, Red/Red (Included and only available with SEO (6J7) headlamp and taillamp flasher system. Requires (9C1) Police Vehicle.)	Inc.	Inc.
5Y1	Front center seat (20% seat) delete power driver and passenger bucket seats in base cloth trim. Derived from RPO (AZ3) 40/20/40 split-bench seat with the 20% section removed, which also removes the auxiliary power outlet, USB port and input jack for audio system. Does not include a floor console. All exposed floor area will remain untrimmed. (Requires (BG9) Black rubberized vinyl floor covering. Not available with (A50) front bucket seats or (B30) color-keyed carpeting floor covering.)	$0.00	$0.00

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GM

Vehicle: [Fleet] 2021 Chevrolet Tahoe (CC10706) 2WD 4dr Commercial (✓ Complete)

OPTIONS

CODE	DESCRIPTION	Invoice	MSRP
6E2	Key common, complete vehicle fleet provides a single key with a specific code that is common to the door locks of all the vehicles in the vehicle fleet. Key code is an alternate to SEO (6E8) complete vehicle fleet common key. NOTE: NOT COMPATIBLE with previous model years (Requires (AMF) Remote Keyless Entry Package, (AU7) fleet common key and (9C1) Police Vehicle. Not available with SEO (6E8) complete vehicle fleet common key.)	$22.75	$25.00
6J7	Flasher system, headlamp and taillamp, DRL compatible with control wire (Requires (9C1) Police Vehicle. Includes SEO (5J9) taillamp flasher calibration, Red/White and SEO (5LO) taillamp flasher calibration, Red/Red.)	Inc.	Inc.
7X3	Spotlamp, left-hand Not available with SEO (7X2) left and right-hand spotlamps. Requires (9C1) Police Vehicle.)	$728.00	$800.00
9G8	Headlamps, Daytime Running Lamps and automatic headlamp control delete deletes standard Daytime Running Lamps and automatic headlamp control features (Requires (9C1) Police Vehicle.)	$45.50	$50.00
AAC	Parts shipped loose (Included and only available with (5Y1) front center seat (20% seat) delete.)	Inc.	Inc.
T66	Wiring provision, for outside mirrors and cargo side mirrors (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
UT7	Ground wires, blunt cut cargo area and blunt cut console area (Included and only available with (9C1) Police Vehicle.)	Inc.	Inc.
VPV	Ship Thru, Produced in Arlington Assembly and shipped to Kerr Industries and onto Arlington Assembly (Requires a Fleet or Government order type.) (Included with SEO (6C7) red and white front auxiliary dome lighting, SEO (6N6) door locks and handles, SEO (7X2) left- and right-hand spotlamps, SEO (7X3) left-hand spotlamp, SEO (T53) alternate flashing Red & Blue rear compartment lid warning lamps, SEO (UN9) Radio Suppression Package, SEO (6J3) grille lamps and siren speakers wiring, SEO (6J4) horn and siren circuit wiring and SEO (WX7) auxiliary speaker wiring.)	$125.00	$0.00
	Options Total	**($2,931.46)**	**($3,358.75)**

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Vehicle: [Fleet] 2021 Chevrolet Tahoe (CC10706) 2WD 4dr Commercial (Complete)

Price Summary

PRICE SUMMARY

	Invoice	MSRP
Base Price	$45,408.00	$48,000.00
Total Options	($2,931.46)	($3,358.75)
Vehicle Subtotal	$42,476.54	$44,641.25
Dealer Advertising Adjustment	$0.00	$0.00
Destination Charge	$1,295.00	$1,295.00
Grand Total	**$43,771.54**	**$45,936.25**

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COURTESY CHEVROLET

4/20/2021

STATE OF ARIZONA
VEHICLE QUOTE
STATE CONTRACT # ADSP017-166120

VEHICLE	**2022 CHEVROLET TAHOE 5W4 SSV 4WD**	**$** 37,325.73
7X3	**LH SPOTLIGHT**	**$** 728.00
9G8	**DLR DELETE**	**$** 45.50
VPV	**KERR SHIP THRU (REQUIRED WITH LH SPOTLIGHT)**	**$** 125.00
	BLACK/WHITE PAINT	**$** 2,900.00

TOTAL	**$** 41,124.23
SALES TAX	$ 3,446.21
TIRE TAX	$ 5.00
GRAND TOTAL	$ 44,575.44

ORDERED UNIT
120-150 DAYS ARO

GM

Vehicle: [Fleet] 2021 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✓ Complete)

Selected Model and Options

MODEL

CODE	MODEL	Invoice	MSRP
CK10706	2021 Chevrolet Tahoe 4WD 4dr Commercial	$48,246.00	$51,000.00

COLORS

CODE	DESCRIPTION
GBA	Black

OPTIONS

CODE	DESCRIPTION	Invoice	MSRP
ZW7	Suspension Package, Premium Smooth Ride (Included and only available with (5W4) Special Service Vehicle.) (STD)	$0.00	$0.00
FE9	Emissions, Federal requirements	$0.00	$0.00
L84	Engine, 5.3L EcoTec3 V8 with Dynamic Fuel Management, Direct Injection and Variable Valve Timing, includes aluminum block construction (355 hp [265 kW] @ 5600 rpm, 383 lb-ft of torque [518 Nm] @ 4100 rpm) (STD)	$0.00	$0.00
MQC	Transmission, 10-speed automatic electronically controlled with overdrive, includes Traction Select System including tow/haul (STD)	$0.00	$0.00
C6H	GVWR, 7500 lbs. (3402 kg) (4WD models only.) (STD)	$0.00	$0.00
GU5	Rear axle, 3.23 ratio	$0.00	$0.00
1FL	Commercial Preferred Equipment Group includes standard equipment	$0.00	$0.00
PZX	Wheels, 18" x 8.5" (45.7 cm x 21.6 cm) Bright Silver painted aluminum (STD)	$0.00	$0.00
QDF	Tires, 265/65R18SL all-season, blackwall (Standard with (PZX) 18" Bright Silver painted aluminum wheels only.) (STD)	$0.00	$0.00
GBA	Black	$0.00	$0.00
AZ3	Seats, front 40/20/40 split-bench (STD)	$0.00	$0.00
H1T	Jet Black, cloth seat trim (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	$0.00	$0.00
IOR	Audio system, Chevrolet Infotainment 3 system, 8" diagonal color touchscreen AM/FM stereo. Additional features for compatible phones include: Bluetooth audio streaming for 2 active devices, voice command pass-through to phone, Apple CarPlay and Android Auto capable. (STD)	$0.00	$0.00

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GM

Vehicle: [Fleet] 2021 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✓ Complete)

OPTIONS

CODE	DESCRIPTION	Invoice	MSRP
5W4	Identifier for Special Service vehicle includes (K47) heavy-duty air filter, (KX4) 250 amp high output alternator, (K6K) 760 cold-cranking amps auxiliary battery, electrical power and vehicle signals for customer connection located at the center front floor, auxiliary battery circuit for customer connection located in the rear cargo area, (RC1) front skid plate, SEO (5J3) Surveillance Mode interior lighting calibration, SEO (UT7) blunt cut cargo area and blunt cut console area ground wires, (V53) delete luggage rack side rails, (ATD) third row seat delete and (NP0) active single-speed transfer case.	($4,550.00)	($5,000.00)
AMF	Remote Keyless Entry Package includes 4 additional transmitters, NOTE: programming of remotes is at customer's expense. Programming remotes is not a warranty expense (Requires SEO (6E2) complete vehicle fleet common key or SEO (6E8) complete vehicle fleet common key and requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	$68.25	$75.00
K6K	Battery, auxiliary, 760 cold-cranking amps with 70 amp hour rating (packaged behind left rear cargo area panel) (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
K3W	Battery, 900 cold-cranking amps with 95 amp hour rating (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
KX4	Alternator, 220 amps (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
RC1	Skid plate, front (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
___	Capless Fuel Fill (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
WUA	Fascia, front high-approach angle (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
V53	Luggage rack side rails, delete (Included with (9C1) Police Vehicle or (5W4) Special Service Vehicle.) *CREDIT*	Inc.	Inc.
___	Exterior ornamentation delete (front & rear Chevrolet bowties will remain) (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
ATD	Seat delete, third row passenger (Deletes rear storage compartment.) *CREDIT*	Inc.	Inc.
VZ2	Speedometer calibration (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
___	Instrumentation, analog with certified 140 mph speedometer, odometer with trip odometer, engine hour meter, fuel level, voltmeter, engine temperature, oil pressure and tachometer (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
AU7	Key, common, fleet (Requires SEO (6E2) complete vehicle fleet common key or SEO (6E8) complete vehicle fleet common key and (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	$22.75	$25.00
___	Theft-deterrent system, vehicle, PASS-Key III (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.

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GM

Vehicle: [Fleet] 2021 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✓ Complete)

OPTIONS

CODE	DESCRIPTION	Invoice	MSRP
___	Power supply, 50-amp, power supply, auxiliary battery passenger compartment wiring harness (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
___	Power supply, 100-amp, auxiliary battery, rear electrical center (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
___	Power supply, 120-amp, (4) 30-amp circuit, Primary battery relay controlled, passenger compartment harness wiring (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
___	Seat belts, 3-point, all seating positions (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
___	Lane Keep Assist Delete	Inc.	Inc.
R9Y	Fleet Free Maintenance Credit. This option code provides a credit in lieu of the free oil changes, tire rotations and inspections for one maintenance service during 1st year of ownership. The invoice will detail the applicable credit. The customer will be responsible for all oil change, tire rotations and inspections costs for this vehicle. (Requires one of the following Fleet or Government order types: FBC, FBN, FCA, FCN, FEF, FLS, FNR, FRC or FGO. Not available with FDR order types.) *CREDIT*	($30.71)	($33.75)
VXT	Incomplete vehicle (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle. Included and only available with (ATZ) rear seat delete.)	Inc.	Inc.
___	Protected idle allows vehicle engine to remain idling and vehicle immobilized while FOB is outside vehicle (Included and only available (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
5J3	Calibration, Surveillance Mode interior lighting (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
5J9	Calibration taillamp flasher, Red/White (Included and only available with SEO (6J7) headlamp and taillamp flasher system. Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
5LO	Calibration taillamp flasher, Red/Red (Included and only available with SEO (6J7) headlamp and taillamp flasher system. Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
5Y1	Front center seat (20% seat) delete power driver and passenger bucket seats in base cloth trim. Derived from RPO (AZ3) 40/20/40 split-bench seat with the 20% section removed, which also removes the auxiliary power outlet, USB port and input jack for audio system. Does not include a floor console. All exposed floor area will remain untrimmed. (Requires (BG9) Black rubberized vinyl floor covering. Not available with (A50) front bucket seats or (B30) color-keyed carpeting floor covering.)	$0.00	$0.00

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GM

Vehicle: [Fleet] 2021 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✓ Complete)

OPTIONS

CODE	DESCRIPTION	Invoice	MSRP
6E2	Key common, complete vehicle fleet provides a single key with a specific code that is common to the door locks of all the vehicles in the vehicle fleet. Key code is an alternate to SEO (6E8) complete vehicle fleet common key. NOTE: NOT COMPATIBLE with previous model years (Requires (AMF) Remote Keyless Entry Package, (AU7) fleet common key and (9C1) Police Vehicle or (5W4) Special Service Vehicle. Not available with SEO (6E8) complete vehicle fleet common key.)	$22.75	$25.00
6J7	Flasher system, headlamp and taillamp, DRL compatible with control wire (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle. Includes SEO (5J9) taillamp flasher calibration, Red/White and SEO (5LO) taillamp flasher calibration, Red/Red.)	Inc.	Inc.
7X3	Spotlamp, left-hand Not available with SEO (7X2) left and right-hand spotlamps. Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	$728.00	$800.00
9G8	Headlamps, Daytime Running Lamps and automatic headlamp control delete deletes standard Daytime Running Lamps and automatic headlamp control features (Requires (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	$45.50	$50.00
AAC	Parts shipped loose (Included and only available with (5Y1) front center seat (20% seat) delete.)	Inc.	Inc.
T66	Wiring provision, for outside mirrors and cargo side mirrors (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
UT7	Ground wires, blunt cut cargo area and blunt cut console area (Included and only available with (9C1) Police Vehicle or (5W4) Special Service Vehicle.)	Inc.	Inc.
VPV	Ship Thru, Produced in Arlington Assembly and shipped to Kerr Industries and onto Arlington Assembly (Requires a Fleet or Government order type.) (Included with SEO (6C7) red and white front auxiliary dome lighting, SEO (6N6) door locks and handles, SEO (7X2) left- and right-hand spotlamps, SEO (7X3) left-hand spotlamp, SEO (T53) alternate flashing Red & Blue rear compartment lid warning lamps, SEO (UN9) Radio Suppression Package, SEO (6J3) grille lamps and siren speakers wiring, SEO (6J4) horn and siren circuit wiring and SEO (WX7) auxiliary speaker wiring.)	$125.00	$0.00
	Options Total	**($3,568.46)**	**($4,058.75)**

This document contains information considered Confidential between GM and its Clients uniquely. The information provided is not intended for public disclosure. Prices, specifications, and availability are subject to change without notice, and do not include certain fees, taxes and charges that may be required by law or vary by manufacturer or region. Performance figures are guidelines only, and actual performance may vary. Photos may not represent actual vehicles or exact configurations. Content based on report preparer's input is subject to the accuracy of the input provided.
Data Version: 12340. Data Updated: Nov 12, 2020 10:11:00 PM PST.

Vehicle: [Fleet] 2021 Chevrolet Tahoe (CK10706) 4WD 4dr Commercial (✓ Complete)

Price Summary

PRICE SUMMARY

	Invoice	MSRP
Base Price	$48,246.00	$51,000.00
Total Options	($3,568.46)	($4,058.75)
Vehicle Subtotal	$44,677.54	$46,941.25
Dealer Advertising Adjustment	$0.00	$0.00
Destination Charge	$1,295.00	$1,295.00
Grand Total	**$45,972.54**	**$48,236.25**

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Data Version: 12340. Data Updated: Nov 12, 2020 10:11:00 PM PST.

Prepared for: Beth Casillas, Fleet Manager, City of Buckeye
Office: 623-349-6840 | Mobile: 623-224-7517
Email: bcasillas@buckeyeaz.gov
End User FIN Code: QR271

Ship to:
Beth Casillas, City of Buckeye

2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230



Client Proposal

Prepared by:
Joe Sanchez
Office: 480-621-3741
Email: joesanchez@santanford.com
Quote ID: 62221-1
Date: 06/22/2021

Government Fleet Account Manager
Joe Sanchez (480) 621-3741 joesanchez@santanford.com
Department Fax (480) 621-3796

Date: June 22, 2021

Customer: **City of Buckeye**

Line Item/State Contract #: W2A / ADSPO17-166124

Vehicle Description: 2022 F250 Crew Cab 4X2 Short Bed

with 6.2L FFV V8 Gs Engine

	Base Bid Price	**$29,760.00**
	Upgrade Options	
1	3.73 Elocking Rear Axle	Standard on Contract
2	Power Equipment Group	Standard on Contract
3	Trailer Brake Controller	270.00
4	Cruise Control	Standard on Contract
5	Window Tint	250.00
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
		$520.00
	Bid Price (with options)	**$30,280.00**
	Tire Tax	5.00
	Sales Tax (7.80%)	2,361.84
	Ford Extended Service Plan	
	Transportation Fee	
	Total Delivered Price	**$32,646.84**

Notes:

Thank You,
Joe

Prepared for: Beth Casillas
Fleet Manager, City of Buckeye
Prepared by: Joe Sanchez
06/22/2021

San Tan Ford | 1429 East Motorplex Loop Gilbert Arizona | 852970410

2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

As Configured Vehicle

Code	Description	MSRP
Base Vehicle		
W2A	Base Vehicle Price (W2A)	$38,540.00
Packages		
600A	Order Code 600A *Includes:* *- Engine: 6.2L 2-Valve SOHC EFI NA V8 Flex-Fuel* *- Transmission: TorqShift-G 6-Spd Auto w/SelectShift* *- GVWR: 10,000 lb Payload Package* *- Tires: LT245/75Rx17E BSW A/S (4)* *Spare may not be the same as road tire.* *- Wheels: 17" Argent Painted Steel* *Includes painted hub covers/center ornaments.* *- Radio: AM/FM Stereo w/MP3 Player* *Includes 4 speakers.* *- SYNC Communications & Entertainment System* *Includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppLink and 1 smart-charging USB-C port.*	N/C
Powertrain		
996	Engine: 6.2L 2-Valve SOHC EFI NA V8 Flex-Fuel	Included
44S	Transmission: TorqShift-G 6-Spd Auto w/SelectShift	Included
X3E	Electronic-Locking w/3.73 Axle Ratio	$390.00
STDGV	GVWR: 10,000 lb Payload Package	Included
Wheels & Tires		
TD8	Tires: LT245/75Rx17E BSW A/S (4) *Spare may not be the same as road tire.*	Included
64A	Wheels: 17" Argent Painted Steel *Includes painted hub covers/center ornaments.*	Included
Seats & Seat Trim		
1	Cloth 40/20/40 Split Bench Seat *Includes center armrest, cupholder, storage and driver's side manual lumbar.*	$100.00
Other Options		
160WB	160" Wheelbase	STD
90L	Power Equipment Group	$1,125.00

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

As Configured Vehicle (cont'd)

Code	Description	MSRP
	Deletes passenger-side lock cylinder. Includes upgraded door trim panel. *Includes:* *- Accessory Delay* *- Trailer Tow Mirrors w/Power Heated Glass* *Includes manual folding, manually telescoping, heated convex spotter mirror and integrated clearance lamps and turn signals.* *- Advanced Security Pack* *Includes SecuriLock Passive Anti-Theft System (PATS) and inclination/intrusion sensors.* *- Power Locks* *- Power Tailgate Lock* *- Power Front & Rear Seat Windows* *Includes 1-touch up/down driver/passenger window.* *- Remote Keyless Entry*	
52B	Trailer Brake Controller *Verified to be compatible with select electric over hydraulic brakes. Includes smart trailer tow connector.*	$270.00
PAINT	Monotone Paint Application	STD
587	Radio: AM/FM Stereo w/MP3 Player *Includes 4 speakers.* *Includes:* *- SYNC Communications & Entertainment System* *Includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppLink and 1 smart-charging USB-C port.*	Included
Fleet Options		
525	Steering Wheel-Mounted Cruise Control (LPO) Requires valid FIN code.	$235.00
Emissions		
425	50-State Emissions System	STD
Interior Color		
1S_02	Medium Earth Gray	N/C
Exterior Color		
UM_03	Agate Black Metallic	N/C
SUBTOTAL		$40,660.00
Destination Charge		$1,695.00
TOTAL		$42,355.00

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Prepared for: Beth Casillas
Fleet Manager, City of Buckeye
Prepared by: Joe Sanchez
06/22/2021

San Tan Ford | 1429 East Motorplex Loop Gilbert Arizona | 852970410

2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Pricing Summary - Single Vehicle

	MSRP
Vehicle Pricing	
Base Vehicle Price	$38,540.00
Options	$2,120.00
Colors	$0.00
Upfitting	$0.00
Fleet Discount	$0.00
Destination Charge	$1,695.00
Subtotal	$42,355.00

Pre-Tax Adjustments

Code	Description	MSRP
Discount	San Tan Ford Vehicle Discount	-$12,325.00
Tint	Window Tint	$250.00
Subtotal		$30,280.00

Sales Taxes

Code	Description	MSRP
City Sales Tax	Gilbert Sales Tax	$454.20
State Tax	Arizona State Sales Tax	$1,907.64
Subtotal		$32,641.84

Post-Tax Adjustments

Code	Description	MSRP
Tire Tax	Tire Tax	$5.00
Subtotal		$32,646.84
Total		$32,646.84

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Fleet Manager, City of Buckeye
Prepared by: Joe Sanchez
06/22/2021

San Tan Ford | 1429 East Motorplex Loop Gilbert Arizona | 852970410

2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Pricing Summary - Single Vehicle

Customer Signature

Acceptance Date

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Selected Equip & Specs

Dimensions

- Exterior length: 250.0"
- Exterior width: 80.0"
- Wheelbase: 160.0"
- Rear track: 67.2"
- Min ground clearance: 8.5"
- Rear legroom: 43.6"
- Rear headroom: 40.4"
- Rear hiproom: 64.7"
- Rear shoulder room: 65.9"
- Approach angle: 17.4 deg
- Cargo volume: 52.1cu.ft.
- Box length: 81.9"
- Cab to axle: 39.9"
- Exterior height: 78.3"
- Front track: 68.3"
- Turning radius: 27.3'
- Front legroom: 43.9"
- Front headroom: 40.8"
- Front hiproom: 62.5"
- Front shoulder room: 66.7"
- Passenger volume: 131.7cu.ft.
- Departure angle: 19 deg
- Maximum cargo volume: 52.1cu.ft.

Powertrain

- 385hp 6.2L SOHC 16 valve V-8 engine with variable valve control, SMPI
- federal
- Rear-wheel drive
- Fuel Economy Highway: N/A
- Recommended fuel : regular unleaded
- TorqShift-G 6 speed automatic transmission with overdrive
- Fuel Economy Cty: N/A

Suspension/Handling

- Front Twin I-Beam independent suspension with anti-roll bar, HD shocks
- Firm ride Suspension
- Front and rear 17 x 7.5 argent steel wheels
- Rear rigid axle leaf spring suspension with HD shocks
- Hydraulic power-assist re-circulating ball Steering
- LT245/75SR17 EBSW AS front and rear tires

Body Exterior

- 4 doors
- Conventional right rear passenger
- * **Turn signal indicator in mirrors**
- Black bumpers
- Bed-rail protectors
- Box style: regular
- Front and rear 17 x 7.5 wheels
- Conventional left rear passenger
- * **Driver and passenger power remote heated, manual folding door mirrors with turn signal indicator**
- Black door mirrors
- * **Class V trailer hitch with with brake controller and trailer sway control**
- Trailer harness
- Clearcoat paint
- 2 front tow hook(s)

Convenience

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Selected Equip & Specs (cont'd)

- Manual air conditioning with air filter
- * **Power windows**
- * **Driver and passenger 1-touch down**
- * **Cruise control with steering wheel controls**
- * **Driver and passenger 1-touch up**
- * **Remote power door locks with 2 stage unlock and illuminated entry**
- Manual tilt steering wheel
- Manual telescopic steering wheel
- Day-night rearview mirror
- FordPass Connect 4G internet access
- 911 Assist emergency SOS
- Wireless phone connectivity
- AppLink smart device integration
- 2 1st row LCD monitors
- Front and rear cupholders
- Passenger visor mirror
- Full overhead console
- * **Driver and passenger door bins**
- * **Rear door bins**

Seats and Trim

- Seating capacity of 6
- Front 40-20-40 split-bench seat
- 4-way driver seat adjustment
- Manual driver lumbar support
- 4-way passenger seat adjustment
- Centre front armrest with storage
- 60-40 folding rear split-bench seat
- * **Cloth seat upholstery**

Entertainment Features

- AM/FM stereo radio
- SYNC external memory control
- Steering wheel mounted radio controls
- 4 speakers
- Streaming audio
- Fixed antenna

Lighting, Visibility and Instrumentation

- Halogen aero-composite headlights
- Delay-off headlights
- Auto on/off headlights
- Variable intermittent front windshield wipers
- Light tinted windows
- Front and rear reading lights
- Tachometer
- Oil pressure gauge
- Compass
- Outside temperature display
- Camera(s) - rear
- Low tire pressure warning
- Trip computer
- Trip odometer

Safety and Security

- 4-wheel ABS brakes
- Brake assist with hill hold control
- 4-wheel disc brakes
- AdvanceTrac w/Roll Stability Control Electronic stability control
- ABS and driveline traction control
- Dual front impact airbag supplemental restraint system
- Dual seat mounted side impact airbag supplemental restraint system
- Safety Canopy System curtain 1st and 2nd row overhead airbag supplemental restraint system

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Selected Equip & Specs (cont'd)

- * **Remote activated perimeter/approach lighting**
- * **Security system with SecuriLock immobilizer**
- Manually adjustable front head restraints
- * **Power remote door locks with 2 stage unlock and panic alarm**
- MyKey restricted driving mode
- 3 manually adjustable rear head restraints

Dimensions

General Weights

* **Curb**	**6,102 lbs.**	GVWR	10,000 lbs.
Payload	3,880 lbs.		

Front Weights

Front GAWR	4,250 lbs.	* **Front curb weight**	**3,475 lbs.**
Front axle capacity	5,250 lbs.	Front spring rating	4,250 lbs.
Front tire/wheel capacity	6,390 lbs.		

Rear Weights

Rear GAWR	6,340 lbs.	* **Rear curb weight**	**2,627 lbs.**
Rear axle capacity	6,200 lbs.	Rear spring rating	6,340 lbs.
Rear tire/wheel capacity	6,390 lbs.		

Trailering Type

Type	Regular	Harness	Yes
Class	V	Hitch	Yes
* **Brake controller**	**Yes**	Trailer sway control	Yes

General Trailering

5th-wheel towing capacity	12900 lbs.	Gooseneck towing capacity	12900 lbs.
Towing capacity	12900 lbs.	GCWR	19500 lbs.

Fuel Tank type

Capacity	34 gal.

Off Road

Approach angle	17 deg	Departure angle	19 deg
Ramp breakover angle	18 deg	Min ground clearance	8 "
Load floor height	35 "		

Exterior cargo

Length	81.9 "	Minimum width	50.5 "
Volume	65.4 cu.ft.	Pickup box depth	21.1 "
Maximum width	66.9 "	Tailgate width	60.5 "

Interior cargo

Cargo volume	52.1 cu.ft.	Maximum cargo volume	52.1 cu.ft.

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Selected Equip & Specs (cont'd)

Powertrain

Engine Type

Block material	Iron	Cylinders	V-8
Head material	Aluminum	Ignition	Spark
Injection	Sequential MPI	Liters	6.2L
Orientation	Longitudinal	Recommended fuel	Regular unleaded
Valves per cylinder	2	Valvetrain	SOHC
Variable valve control	Yes		

Engine Spec

Bore	4.02"	Compression ratio	9.8:1
Displacement	379 cu.in.	Stroke	3.74"

Engine Power

SAEJ1349 AUG2004 compliant	Yes	Output	385 HP @ 5,750 RPM
Torque	430 ft.-lb @ 3,800 RPM		

Alternator

Amps	157

Battery

Amp hours	72	Cold cranking amps	650
Run down protection	Yes		

Transmission

Electronic control	Yes	Lock-up	Yes
Overdrive	Yes	Speed	6
Type	Automatic		

Transmission Gear Ratios

1st	4.17	2nd	2.34
3rd	1.52	4th	1.14
5th	0.87	6th	0.69
Reverse Gear ratios	3.4		

Transmission Torque Converter

Stall ratio	2.01

Transmission Extras

Driver selectable mode	Yes	Sequential shift control	SelectShift
Oil cooler	Regular duty		

Drive Type

Type	Rear-wheel

Drive Feature

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Selected Equip & Specs (cont'd)

Traction control ..... ABS and driveline

* **Rear locking differential** ..... **Driver selectable**

Drive Axle

Ratio 3.73

Exhaust

Material ..... Stainless steel

System type ..... Single

Emissions

CARB ..... Federal

fuel Economy

Fuel type ..... Gasoline

Fuel Economy (Alternate 1)

Fuel type E85

Acceleration

0-60 mph (s) 6.9

1/4 Mile

Seconds 15.3

Speed ..... 93 mph

Skid Pad

Lateral acceleration (g) 0.6

Slalom

Speed ..... 51 mph

Driveability

Brakes

ABS 4-wheel

ABS channels 4

Type ..... 4-wheel disc

Vented discs ..... Front and rear

Brake Assistance

Brake assist ..... Yes

Hill hold control ..... Yes

Suspension Control

Ride ..... Firm

Electronic stability control ..... Stability control with anti-roll

Front Suspension

Independence ..... Twin I-Beam independent

Anti-roll bar ..... Regular

Front Spring

Type ..... Coil

Grade ..... Regular

Front Shocks

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Selected Equip & Specs (cont'd)

Type ..... HD

Rear Suspension

Independence ..... Rigid axle
Type ..... Leaf

Rear Spring

Type ..... Leaf
Grade ..... HD

Rear Shocks

Type ..... HD

Steering

Activation ..... Hydraulic power-assist
Type ..... Re-circulating ball

Steering Specs

of wheels 2

Exterior

Front Wheels

Diameter ..... 17"
Width ..... 7.50"

Rear Wheels

Diameter ..... 17"
Width ..... 7.50"

Spare Wheels

Wheel material ..... Steel

Front and Rear Wheels

Appearance ..... Argent
Material ..... Steel
Covers ..... Hub

Front Tires

Aspect 75
Diameter ..... 17"
Sidewalls ..... BSW
Speed ..... S
Tread ..... AS
Type ..... LT
Width 245mm
LT load rating ..... E
RPM 645

Rear Tires

Aspect 75
Diameter ..... 17"
Sidewalls ..... BSW
Speed ..... S
Tread ..... AS
Type ..... LT
Width 245mm
LT load rating ..... E
RPM 645

Spare Tire

Mount ..... Underbody w/crankdown
Type ..... Full-size

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Selected Equip & Specs (cont'd)

Wheels

Front track	68.3"	Rear track	67.2"
Turning radius	27.3'	Wheelbase	160.0"

Body Features

Body material	Aluminum	Side impact beams	Yes
Front tow hook(s)	2		

Body Doors

Door count	4	Left rear passenger	Conventional
Right rear passenger	Conventional	Cargo	Tailgate

Pickup

Box style	Regular	Bed-rail protectors	Yes

Exterior Dimensions

Length	250.0"	Body width	80.0"
Body height	78.3"	Cab to axle	39.9"
Frame section modulus	10.7cu.in.	Frame yield strength (psi)	50000.0
Front bumper to Front axle	38.2"	Front bumper to back of cab	151.8"

Safety

Airbags

Driver front-impact	Yes	Driver side-impact	Seat mounted
Overhead	Safety Canopy System curtain 1st and 2nd row	Passenger front-impact	Yes
Passenger side-impact	Seat mounted		

Seatbelt

Rear centre 3 point	Yes	Height adjustable	Front

Security

Immobilizer	SecuriLock	* **Panic alarm**	**Yes**
Restricted driving mode	MyKey		

Seating

Passenger Capacity

Capacity	6

Front Seats

Split	40-20-40	Type	Split-bench

Driver Seat

Fore/aft	Manual	Reclining	Manual
Way direction control	4	Lumbar support	Manual

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Selected Equip & Specs (cont'd)

Passenger seat

Fore/aft	Manual	Reclining	Manual
Way direction control	4		

Front Head Restraint

Control	Manual	Type	Adjustable

Front Armrest

Centre	Yes	Storage	Yes

Rear Seats

Descriptor	Split-bench	Facing	Front
Folding	60-40	Folding position	Fold-up cushion
Type	Fixed		

Rear Head Restraints

Control	Manual	Type	Adjustable
Number	3		

Front Seat Trim

* **Material**	**Cloth**	* **Back material**	**Cloth**

Rear Seat Trim Group

* **Material**	**Cloth**	Back material	Carpet

Convenience

AC And Heat Type

Air conditioning	Manual	Air filter	Yes
Underseat ducts	Yes		

Audio System

Radio	AM/FM stereo	Radio grade	Regular
Seek-scan	Yes	External memory control	SYNC

Audio Speakers

Speaker type	Regular	Speakers	4

Audio Controls

Steering wheel controls	Yes	Voice activation	Yes
Streaming audio	Bluetooth yes		

Audio Antenna

Type	Fixed

LCD Monitors

1st row	2	Primary monitor size (inches)	4.2

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Selected Equip & Specs (cont'd)

Cruise Control

- **Cruise control** **With steering wheel controls**

Convenience Features

- **Retained accessory power** **Yes**
- Emergency SOS 911 Assist
- Smart device integration App link
- 12V DC power outlet 2
- Wireless phone connectivity Bluetooth

Door Lock Activation

- **Type** **Power with 2 stage unlock**
- **Integrated key/remote** **Yes**
- **Remote** **Keyfob (all doors)**

Door Lock Type

- **Tailgate/rear door lock** **Included with power door locks**

Door Locks Extra FOB Controls

- Remote engine start Smart device only

Instrumentation Type

- Appearance Analog

Instrumentation Gauges

- Tachometer Yes
- Engine temperature Yes
- Engine hour meter Yes
- Oil pressure Yes
- Transmission fluid temp Yes

Instrumentation Warnings

- Oil pressure Yes
- Battery Yes
- Key Yes
- Door ajar Yes
- Brake fluid Yes
- Engine temperature Yes
- Lights on Yes
- Low fuel Yes
- Service interval Yes
- Low tire pressure Tire specific

Instrumentation Displays

- Clock In-radio display
- Exterior temp Yes
- Camera(s) - rear Yes
- Compass Yes
- Systems monitor Yes

Instrumentation Feature

- Trip computer Yes
- Trip odometer Yes

Steering Wheel Type

- Material Urethane
- Telescoping Manual
- Tilting Manual

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Selected Equip & Specs (cont'd)

Front Side Windows

- *** Window 1st row activation** ..... **Power**

Windows Rear Side

- *** 2nd row activation** ..... **Power**

Window Features

- *** 1-touch down** ..... **Driver and passenger**
- *** 1-touch up** ..... **Driver and passenger**
- Tinted ..... Light

Front Windshield

- Wiper ..... Variable intermittent

Rear Windshield

- Window ..... Fixed

Interior

Passenger Visor

- Mirror ..... Yes

Rear View Mirror

- Day-night ..... Yes

Headliner

- Coverage ..... Full
- Material ..... Cloth

Floor Trim

- Coverage ..... Full
- Covering ..... Vinyl/rubber

Trim Feature

- Gear shifter material ..... Urethane
- Interior accents ..... Chrome

Lighting

- Dome light type ..... Fade
- Front reading ..... Yes
- *** Illuminated entry** ..... **Yes**
- Rear reading ..... Yes
- Variable IP lighting ..... Yes

Overhead Console Storage

- Storage ..... Yes
- Type ..... Full

Storage

- *** Driver door bin** ..... **Yes**
- Front Beverage holder(s) ..... Yes
- Glove box ..... Locking
- *** Passenger door bin** ..... **Yes**
- Illuminated ..... Yes
- Rear yes ..... Yes
- Instrument panel ..... Covered bin
- Dashboard ..... Yes

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Selected Equip & Specs (cont'd)

* **Rear door bins** ..... **Yes**

Legroom

Front	43.9"	Rear	43.6"

Headroom

Front	40.8"	Rear	40.4"

Hip Room

Front	62.5"	Rear	64.7"

Shoulder Room

Front	66.7"	Rear	65.9"

Interior Volume

Passenger volume ..... 131.7 cu.ft.

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2022 F-250 4x2 SD Crew Cab 6.75' box 160" WB SRW XL (W2A)

Price Level: 230 | Quote ID: 62221-1

Warranty

Standard Warranty

Basic

Distance	36,000 miles	Months	36 months

Powertrain

Distance	60,000 miles	Months	60 months

Corrosion Perforation

Distance	Unlimited miles	Months	60 months

Roadside Assistance

Distance	60,000 miles	Months	60 months

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

Prepared for: Beth Casillas, Fleet Manager, City of Buckeye
Office: 623-349-6840 | Mobile: 623-224-7517
Email: bcasillas@buckeyeaz.gov
End User FIN Code: QR271

Ship to:
Beth Casillas, City of Buckeye

2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230



Client Proposal

Prepared by:
Joe Sanchez
Office: 480-621-3741
Email: joesanchez@santanford.com
Quote ID: 62221-2
Date: 06/22/2021

Government Fleet Account Manager
Joe Sanchez (480) 621-3741 joesanchez@santanford.com
Department Fax (480) 621-3796

Date: June 22, 2021

Customer: **City of Buckeye**

Line Item/State Contract #: W2B / ADSPO17-166124

Vehicle Description: 2022 F250 Crew Cab 4X4 Short Bed

with 6.2L FFV V8 Gs Engine

	Base Bid Price	**$32,475.00**
	Upgrade Options	
1	3.73 Elocking Rear Axle	Standard on Contract
2	Power Equipment Group	Standard on Contract
3	Trailer Brake Controller	270.00
4	Cruise Control	Standard on Contract
5	Skid Plates	Standard on Contract
6	Reverse Sensing	245.00
7	Window Tint	250.00
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
		$765.00
	Bid Price (with options)	**$33,240.00**
	Tire Tax	5.00
	Sales Tax (7.80%)	2,592.72
	Ford Extended Service Plan	
	Transportation Fee	
	Total Delivered Price	**$35,837.72**

Notes:

Thank You,
Joe

Prepared for: Beth Casillas
Fleet Manager, City of Buckeye
Prepared by: Joe Sanchez
06/22/2021

San Tan Ford | 1429 East Motorplex Loop Gilbert Arizona | 852970410

2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

As Configured Vehicle

Code	Description	MSRP
Base Vehicle		
W2B	Base Vehicle Price (W2B)	$41,340.00
Packages		
600A	Order Code 600A *Includes:* *- Engine: 6.2L 2-Valve SOHC EFI NA V8 Flex-Fuel* *- Transmission: TorqShift-G 6-Spd Auto w/SelectShift* *- GVWR: 10,000 lb Payload Package* *- Tires: LT245/75Rx17E BSW A/S (4)* *Spare may not be the same as road tire.* *- Wheels: 17" Argent Painted Steel* *Includes painted hub covers/center ornaments.* *- Radio: AM/FM Stereo w/MP3 Player* *Includes 4 speakers.* *- SYNC Communications & Entertainment System* *Includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppLink and 1 smart-charging USB-C port.*	N/C
Powertrain		
996	Engine: 6.2L 2-Valve SOHC EFI NA V8 Flex-Fuel	Included
44S	Transmission: TorqShift-G 6-Spd Auto w/SelectShift	Included
X3E	Electronic-Locking w/3.73 Axle Ratio	$390.00
STDGV	GVWR: 10,000 lb Payload Package	Included
Wheels & Tires		
TD8	Tires: LT245/75Rx17E BSW A/S (4) *Spare may not be the same as road tire.*	Included
64A	Wheels: 17" Argent Painted Steel *Includes painted hub covers/center ornaments.*	Included
Seats & Seat Trim		
1	Cloth 40/20/40 Split Bench Seat *Includes center armrest, cupholder, storage and driver's side manual lumbar.*	$100.00
Other Options		
160WB	160" Wheelbase	STD
90L	Power Equipment Group	$1,125.00

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2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

As Configured Vehicle (cont'd)

Code	Description	MSRP
	Deletes passenger-side lock cylinder. Includes upgraded door trim panel. *Includes:* *- Accessory Delay* *- Trailer Tow Mirrors w/Power Heated Glass* *Includes manual folding, manually telescoping, heated convex spotter mirror and integrated clearance lamps and turn signals.* *- Advanced Security Pack* *Includes SecuriLock Passive Anti-Theft System (PATS) and inclination/intrusion sensors.* *- Power Locks* *- Power Tailgate Lock* *- Power Front & Rear Seat Windows* *Includes 1-touch up/down driver/passenger window.* *- Remote Keyless Entry*	
41P	Transfer Case & Fuel Tank Skid Plates	$100.00
52B	Trailer Brake Controller *Verified to be compatible with select electric over hydraulic brakes. Includes smart trailer tow connector.*	$270.00
PAINT	Monotone Paint Application	STD
587	Radio: AM/FM Stereo w/MP3 Player *Includes 4 speakers.* *Includes:* *- SYNC Communications & Entertainment System* *Includes enhanced voice recognition with 911 Assist, 4.2" LCD center stack screen, AppLink and 1 smart-charging USB-C port.*	Included
Fleet Options		
525	Steering Wheel-Mounted Cruise Control (LPO) Requires valid FIN code.	$235.00
76R	Reverse Sensing System (Fleet)	$245.00
Emissions		
425	50-State Emissions System	STD
Interior Color		
1S_02	Medium Earth Gray	N/C
Exterior Color		
UM_03	Agate Black Metallic	N/C

SUBTOTAL	$43,805.00
Destination Charge	$1,695.00

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2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

As Configured Vehicle (cont'd)

Code	Description	MSRP
TOTAL		$45,500.00

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Prepared for: Beth Casillas
Fleet Manager, City of Buckeye
Prepared by: Joe Sanchez
06/22/2021

San Tan Ford | 1429 East Motorplex Loop Gilbert Arizona | 852970410

2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Pricing Summary - Single Vehicle

	MSRP
Vehicle Pricing	
Base Vehicle Price	$41,340.00
Options	$2,465.00
Colors	$0.00
Upfitting	$0.00
Fleet Discount	$0.00
Destination Charge	$1,695.00
Subtotal	$45,500.00

Pre-Tax Adjustments

Code	Description	MSRP
Discount	San Tan Ford Vehicle Discount	-$12,510.00
Tint	Window Tint	$250.00
Subtotal		$33,240.00

Sales Taxes

Code	Description	MSRP
City Sales Tax	Gilbert Sales Tax	$498.60
State Tax	Arizona State Sales Tax	$2,094.12
Subtotal		$35,832.72

Post-Tax Adjustments

Code	Description	MSRP
Tire Tax	Tire Tax	$5.00
Subtotal		$35,837.72
Total		$35,837.72

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Fleet Manager, City of Buckeye
Prepared by: Joe Sanchez
06/22/2021

San Tan Ford | 1429 East Motorplex Loop Gilbert Arizona | 852970410

2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Pricing Summary - Single Vehicle

Customer Signature

Acceptance Date

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Selected Equip & Specs

Dimensions

- Exterior length: 250.0"
- Exterior width: 80.0"
- Wheelbase: 160.0"
- Rear track: 67.2"
- Min ground clearance: 8.2"
- Rear legroom: 43.6"
- Rear headroom: 40.4"
- Rear hiproom: 64.7"
- Rear shoulder room: 65.9"
- Approach angle: 17.9 deg
- Cargo volume: 52.1cu.ft.
- Box length: 81.9"
- Cab to axle: 39.9"
- Exterior height: 81.5"
- Front track: 68.3"
- Turning radius: 26.5'
- Front legroom: 43.9"
- Front headroom: 40.8"
- Front hiproom: 62.5"
- Front shoulder room: 66.7"
- Passenger volume: 131.7cu.ft.
- Departure angle: 22.1 deg
- Maximum cargo volume: 52.1cu.ft.

Powertrain

- 385hp 6.2L SOHC 16 valve V-8 engine with variable valve control, SMPI
- federal
- Part-time
- Fuel Economy Highway: N/A
- Recommended fuel : regular unleaded
- TorqShift-G 6 speed automatic transmission with overdrive
- Fuel Economy Cty: N/A

Suspension/Handling

- Front Mono-beam non-independent suspension with anti-roll bar, HD shocks
- Firm ride Suspension
- Front and rear 17 x 7.5 argent steel wheels
- Rear rigid axle leaf spring suspension with HD shocks
- Hydraulic power-assist re-circulating ball Steering
- LT245/75SR17 EBSW AS front and rear tires

Body Exterior

- 4 doors
- Conventional right rear passenger
- * **Turn signal indicator in mirrors**
- Black bumpers
- Bed-rail protectors
- Box style: regular
- Front and rear 17 x 7.5 wheels
- Conventional left rear passenger
- * **Driver and passenger power remote heated, manual folding door mirrors with turn signal indicator**
- Black door mirrors
- * **Class V trailer hitch with with brake controller and trailer sway control**
- Trailer harness
- Clearcoat paint
- 2 front tow hook(s)

Convenience

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2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Selected Equip & Specs (cont'd)

- Manual air conditioning with air filter
- * **Power windows**
- * **Driver and passenger 1-touch down**
- * **Cruise control with steering wheel controls**
- * **Driver and passenger 1-touch up**
- * **Remote power door locks with 2 stage unlock and illuminated entry**
- Manual tilt steering wheel
- Manual telescopic steering wheel
- Day-night rearview mirror
- FordPass Connect 4G internet access
- 911 Assist emergency SOS
- Wireless phone connectivity
- AppLink smart device integration
- 2 1st row LCD monitors
- Front and rear cupholders
- Passenger visor mirror
- Full overhead console
- * **Driver and passenger door bins**
- * **Rear door bins**

Seats and Trim

- Seating capacity of 6
- Front 40-20-40 split-bench seat
- 4-way driver seat adjustment
- Manual driver lumbar support
- 4-way passenger seat adjustment
- Centre front armrest with storage
- 60-40 folding rear split-bench seat
- * **Cloth seat upholstery**

Entertainment Features

- AM/FM stereo radio
- SYNC external memory control
- Steering wheel mounted radio controls
- 4 speakers
- Streaming audio
- Fixed antenna

Lighting, Visibility and Instrumentation

- Halogen aero-composite headlights
- Delay-off headlights
- Auto on/off headlights
- Variable intermittent front windshield wipers
- Light tinted windows
- Front and rear reading lights
- Tachometer
- Oil pressure gauge
- Compass
- Outside temperature display
- Camera(s) - rear
- Low tire pressure warning
- Trip computer
- * **Reverse Sensing System parking sensors**
- Trip odometer

Safety and Security

- 4-wheel ABS brakes
- Brake assist with hill hold control
- 4-wheel disc brakes
- AdvanceTrac w/Roll Stability Control Electronic stability control
- ABS and driveline traction control
- Dual front impact airbag supplemental restraint system
- Dual seat mounted side impact airbag supplemental restraint system
- Safety Canopy System curtain 1st and 2nd row overhead airbag supplemental restraint system

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2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Selected Equip & Specs (cont'd)

- * **Remote activated perimeter/approach lighting**
- * **Security system with SecuriLock immobilizer**
- Manually adjustable front head restraints
- * **Power remote door locks with 2 stage unlock and panic alarm**
- MyKey restricted driving mode
- 3 manually adjustable rear head restraints

Dimensions

General Weights

* **Curb**	**6,555 lbs.**	GVWR	10,000 lbs.
Payload	3,470 lbs.		

Front Weights

Front GAWR	4,800 lbs.	* **Front curb weight**	**3,864 lbs.**
Front axle capacity	6,000 lbs.	Front spring rating	4,800 lbs.
Front tire/wheel capacity	6,390 lbs.		

Rear Weights

Rear GAWR	6,340 lbs.	* **Rear curb weight**	**2,691 lbs.**
Rear axle capacity	6,200 lbs.	Rear spring rating	6,340 lbs.
Rear tire/wheel capacity	6,390 lbs.		

Trailering Type

Type	Regular	Harness	Yes
Class	V	Hitch	Yes
* **Brake controller**	**Yes**	Trailer sway control	Yes

General Trailering

5th-wheel towing capacity	12500 lbs.	Gooseneck towing capacity	12500 lbs.
Towing capacity	12500 lbs.	GCWR	19500 lbs.

Fuel Tank type

Capacity	34 gal.

Off Road

Approach angle	18 deg	Departure angle	22 deg
Ramp breakover angle	23 deg	Min ground clearance	8 "
Load floor height	38 "		

Exterior cargo

Length	81.9 "	Minimum width	50.5 "
Volume	65.4 cu.ft.	Pickup box depth	21.1 "
Maximum width	66.9 "	Tailgate width	60.5 "

Interior cargo

Cargo volume	52.1 cu.ft.	Maximum cargo volume	52.1 cu.ft.

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2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Selected Equip & Specs (cont'd)

Powertrain

Engine Type

Block material	Iron	Cylinders	V-8
Head material	Aluminum	Ignition	Spark
Injection	Sequential MPI	Liters	6.2L
Orientation	Longitudinal	Recommended fuel	Regular unleaded
Valves per cylinder	2	Valvetrain	SOHC
Variable valve control	Yes		

Engine Spec

Bore	4.02"	Compression ratio	9.8:1
Displacement	379 cu.in.	Stroke	3.74"

Engine Power

SAEJ1349 AUG2004 compliant	Yes	Output	385 HP @ 5,750 RPM
Torque	430 ft.-lb @ 3,800 RPM		

Alternator

Amps	157

Battery

Amp hours	72	Cold cranking amps	650
Run down protection	Yes		

Transmission

Electronic control	Yes	Lock-up	Yes
Overdrive	Yes	Speed	6
Type	Automatic		

Transmission Gear Ratios

1st	4.17	2nd	2.34
3rd	1.52	4th	1.14
5th	0.87	6th	0.69
Reverse Gear ratios	3.4		

Transmission Torque Converter

Stall ratio	2.01

Transmission Extras

Driver selectable mode	Yes	Sequential shift control	SelectShift
Oil cooler	Regular duty		

Drive Type

4wd type	Part-time	Type	Four-wheel

Drive Feature

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2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Selected Equip & Specs (cont'd)

Traction control	ABS and driveline	Locking hub control	Auto
Transfer case shift	Electronic	* **Rear locking differential**	**Driver selectable**

Drive Axle

Ratio	3.73

Exhaust

Material	Stainless steel	System type	Single

Emissions

CARB	Federal

fuel Economy

Fuel type	Gasoline

Fuel Economy (Alternate 1)

Fuel type	E85

Acceleration

0-60 mph (s)	6.77

1/4 Mile

Seconds	15.2	Speed	91 mph

Skid Pad

Lateral acceleration (g)	0.6

Slalom

Speed	50 mph

Driveability

Brakes

ABS	4-wheel	ABS channels	4
Type	4-wheel disc	Vented discs	Front and rear

Brake Assistance

Brake assist	Yes	Hill hold control	Yes

Suspension Control

Ride	Firm	Electronic stability control	Stability control with anti-roll

Front Suspension

Independence	Mono-beam non-independent	Anti-roll bar	Regular

Front Spring

Type	Coil	Grade	Regular

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2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Selected Equip & Specs (cont'd)

Front Shocks

Type	HD

Rear Suspension

Independence	Rigid axle	Type	Leaf

Rear Spring

Type	Leaf	Grade	HD

Rear Shocks

Type	HD

Steering

Activation	Hydraulic power-assist	Type	Re-circulating ball

Steering Specs

# of wheels	2

Exterior

Front Wheels

Diameter	17"	Width	7.50"

Rear Wheels

Diameter	17"	Width	7.50"

Spare Wheels

Wheel material	Steel

Front and Rear Wheels

Appearance	Argent	Material	Steel
Covers	Hub		

Front Tires

Aspect	75	Diameter	17"
Sidewalls	BSW	Speed	S
Tread	AS	Type	LT
Width	245mm	LT load rating	E
RPM	645		

Rear Tires

Aspect	75	Diameter	17"
Sidewalls	BSW	Speed	S
Tread	AS	Type	LT
Width	245mm	LT load rating	E
RPM	645		

Spare Tire

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2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Selected Equip & Specs (cont'd)

Mount	Underbody w/crankdown	Type	Full-size

Wheels

Front track	68.3"	Rear track	67.2"
Turning radius	26.5'	Wheelbase	160.0"

Body Features

* **Skid plate(s)**	**2**	Body material	Aluminum
Side impact beams	Yes	Front tow hook(s)	2

Body Doors

Door count	4	Left rear passenger	Conventional
Right rear passenger	Conventional	Cargo	Tailgate

Pickup

Box style	Regular	Bed-rail protectors	Yes

Exterior Dimensions

Length	250.0"	Body width	80.0"
Body height	81.5"	Cab to axle	39.9"
Frame section modulus	10.7cu.in.	Frame yield strength (psi)	50000.0
Front bumper to Front axle	38.2"	Front bumper to back of cab	151.8"

Safety

Airbags

Driver front-impact	Yes	Driver side-impact	Seat mounted
Overhead	Safety Canopy System curtain 1st and 2nd row	Passenger front-impact	Yes
Passenger side-impact	Seat mounted		

Seatbelt

Rear centre 3 point	Yes	Height adjustable	Front

Security

Immobilizer	SecuriLock	* **Panic alarm**	**Yes**
Restricted driving mode	MyKey		

Seating

Passenger Capacity

Capacity	6

Front Seats

Split	40-20-40	Type	Split-bench

Driver Seat

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2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Selected Equip & Specs (cont'd)

Fore/aft ..... Manual
Way direction control 4
Reclining ..... Manual
Lumbar support ..... Manual

Passenger seat

Fore/aft ..... Manual
Way direction control 4
Reclining ..... Manual

Front Head Restraint

Control ..... Manual
Type ..... Adjustable

Front Armrest

Centre ..... Yes
Storage ..... Yes

Rear Seats

Descriptor ..... Split-bench
Folding 60-40
Type ..... Fixed
Facing ..... Front
Folding position ..... Fold-up cushion

Rear Head Restraints

Control ..... Manual
Number 3
Type ..... Adjustable

Front Seat Trim

* **Material** ..... **Cloth**
* **Back material** ..... **Cloth**

Rear Seat Trim Group

* **Material** ..... **Cloth**
Back material ..... Carpet

Convenience

AC And Heat Type

Air conditioning ..... Manual
Underseat ducts ..... Yes
Air filter ..... Yes

Audio System

Radio ..... AM/FM stereo
Seek-scan ..... Yes
Radio grade ..... Regular
External memory control ..... SYNC

Audio Speakers

Speaker type ..... Regular
Speakers 4

Audio Controls

Steering wheel controls ..... Yes
Streaming audio ..... Bluetooth yes
Voice activation ..... Yes

Audio Antenna

Type ..... Fixed

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2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Selected Equip & Specs (cont'd)

LCD Monitors

1st row	2	Primary monitor size (inches)	4.2

Cruise Control

* **Cruise control**	**With steering wheel controls**

Convenience Features

* **Retained accessory power**	**Yes**	12V DC power outlet	2
Emergency SOS	911 Assist	Wireless phone connectivity	Bluetooth
Smart device integration	App link		

Door Lock Activation

* **Type**	**Power with 2 stage unlock**	* **Remote**	**Keyfob (all doors)**
* **Integrated key/remote**	**Yes**		

Door Lock Type

* **Tailgate/rear door lock**	**Included with power door locks**

Door Locks Extra FOB Controls

Remote engine start	Smart device only

Instrumentation Type

Appearance	Analog

Instrumentation Gauges

Tachometer	Yes	Oil pressure	Yes
Engine temperature	Yes	Transmission fluid temp	Yes
Engine hour meter	Yes		

Instrumentation Warnings

Oil pressure	Yes	Engine temperature	Yes
Battery	Yes	Lights on	Yes
Key	Yes	Low fuel	Yes
Door ajar	Yes	Service interval	Yes
Brake fluid	Yes	Low tire pressure	Tire specific

Instrumentation Displays

Clock	In-radio display	Compass	Yes
Exterior temp	Yes	Systems monitor	Yes
Camera(s) - rear	Yes		

Instrumentation Feature

Trip computer	Yes	Trip odometer	Yes
* **Parking sensors**	**Rear**		

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Selected Equip & Specs (cont'd)

Steering Wheel Type

Material	Urethane	Tilting	Manual
Telescoping	Manual		

Front Side Windows

* **Window 1st row activation**	**Power**

Windows Rear Side

* **2nd row activation**	**Power**

Window Features

* **1-touch down**	**Driver and passenger**	* **1-touch up**	**Driver and passenger**
Tinted	Light		

Front Windshield

Wiper	Variable intermittent

Rear Windshield

Window	Fixed

Interior

Passenger Visor

Mirror	Yes

Rear View Mirror

Day-night	Yes

Headliner

Coverage	Full	Material	Cloth

Floor Trim

Coverage	Full	Covering	Vinyl/rubber

Trim Feature

Gear shifter material	Urethane	Interior accents	Chrome

Lighting

Dome light type	Fade	Front reading	Yes
* **Illuminated entry**	**Yes**	Rear reading	Yes
Variable IP lighting	Yes		

Overhead Console Storage

Storage	Yes	Type	Full

Storage

* **Driver door bin**	**Yes**	Front Beverage holder(s)	Yes

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Selected Equip & Specs (cont'd)

Glove box	Locking
Illuminated	Yes
Instrument panel	Covered bin
* **Rear door bins**	**Yes**
* **Passenger door bin**	**Yes**
Rear yes	Yes
Dashboard	Yes

Legroom

Front	43.9"	Rear	43.6"

Headroom

Front	40.8"	Rear	40.4"

Hip Room

Front	62.5"	Rear	64.7"

Shoulder Room

Front	66.7"	Rear	65.9"

Interior Volume

Passenger volume	131.7 cu.ft.

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

2022 F-250 4x4 SD Crew Cab 6.75' box 160" WB SRW XL (W2B)

Price Level: 230 | Quote ID: 62221-2

Warranty

Standard Warranty

Basic

Distance	36,000 miles	Months	36 months

Powertrain

Distance	60,000 miles	Months	60 months

Corrosion Perforation

Distance	Unlimited miles	Months	60 months

Roadside Assistance

Distance	60,000 miles	Months	60 months

Prices and content availability as shown are subject to change and should be treated as estimates only. Actual base vehicle, package and option pricing may vary from this estimate because of special local pricing, availability or pricing adjustments not reflected in the dealer's computer system. See salesperson for the most current information.

MOTOROLA SOLUTIONS

QUOTE-1495682
Buckeye PD_J.Tortora_(1) MCC8500 Mobile

Billing Address:
BUCKEYE POLICE DEPT
530 E MONROE AVE
BUCKEYE, AZ 85326
US

Shipping Address:
BUCKEYE POLICE DEPARTMENT
21699 W YUMA RD
BUCKEYE, AZ 85326
US

Quote Date:06/22/2021
Expiration Date:09/20/2021
Quote Created By:
Theodore McKenzie
Sr. Account Executive
Ted.McKenzie@motorolasolutions.com
(480) 267-8952

End Customer:
BUCKEYE POLICE DEPT
Jim Tortora
jtortora@buckeyeaz.gov
(623) 349-6408

Payment Terms:30 NET

Line #	Item Number	Description	Qty	List Price	Sale Price	Ext. Sale Price
	APX™ 8500					
1	M37TSS9PW1AN	APX8500 ALL BAND MP MOBILE	1	$10,612.30	$7,890.43	$7,890.43
1a	QA01648AA	ADD: HW KEY SUPPLEMENTAL DATA	1			
1b	GA09007AA	ADD: OUT OF THE BOX WIFI PROVISIONING	1			
1c	GA00255AF	ADD: 5Y ESSENTIAL ACCIDENTAL DAMAGE	1			
1d	GA00580AA	ADD: TDMA OPERATION	1			
1e	G51AT	ENH:SMARTZONE	1			
1f	GA01606AA	ADD: NO GPS/WI-FI ANTENNA NEEDED	1			
1g	G298AS	ENH: ASTRO 25 OTAR W/ MULTIKEY	1			
1h	GA09001AA	ADD: WI-FI CAPABILITY	1			
1i	B18CR	ADD: AUXILIARY SPKR 7.5 WATT APX	1			

Any sales transaction following Motorola's quote is based on and subject to the terms and conditions of the valid and executed written contract between Customer and Motorola (the ""Underlying Agreement"") that authorizes Customer to purchase equipment and/or services or license software (collectively ""Products""). If no Underlying Agreement exists between Motorola and Customer, then Motorola's Standard Terms of Use and Motorola's Standard Terms and Conditions of Sales and Supply shall govern the purchase of the Products.
Motorola Solutions, Inc.: 500 West Monroe, United States - 60661 ~ #: 36-1115800

Line #	Item Number	Description	Qty	List Price	Sale Price	Ext. Sale Price
1j	G843AH	ADD: AES ENCRYPTION AND ADP	1			
1k	G89AC	ADD: NO RF ANTENNA NEEDED	1			
1l	G444AH	ADD: APX CONTROL HEAD SOFTWARE	1			
1m	G67EH	ADD: REMOTE MOUNT E5 MP	1			
1n	GA00268AB	ADD: RFID LABEL APX	1			
1o	GA01517AA	DEL: NO J600 ADAPTER CABLE NEEDED	1			
1p	G806BL	ENH: ASTRO DIGITAL CAI OP APX	1			
1q	GA01670AA	ADD: APX E5 CONTROL HEAD	1			
1r	W22BA	ADD: STD PALM MICROPHONE APX	1			
1s	G361AH	ENH: P25 TRUNKING SOFTWARE APX	1			

Subtotal $7,890.43

Estimated Tax $733.81

Grand Total $8,624.24(USD)

Notes:

Any sales transaction following Motorola's quote is based on and subject to the terms and conditions of the valid and executed written contract between Customer and Motorola (the ""Underlying Agreement"") that authorizes Customer to purchase equipment and/or services or license software (collectively ""Products""). If no Underlying Agreement exists between Motorola and Customer, then Motorola's Standard Terms of Use and Motorola's Standard Terms and Conditions of Sales and Supply shall govern the purchase of the Products.

Motorola Solutions, Inc.: 500 West Monroe, United States - 60661 ~ #: 36-1115800

MOTOROLA SOLUTIONS

Purchase Order Checklist
Marked as PO/ Contract/ Notice to Proceed on Company Letterhead **(PO will not be processed without this)**
PO Number/ Contract Number
PO Date
Vendor = Motorola Solutions, Inc.
Payment (Billing) Terms/ State Contract Number
Bill-To Name on PO must be equal to the *Legal* Bill-To Name
Bill-To Address
Ship-To Address (If we are shipping to a MR location, it must be documented on PO)
Ultimate Address (If the Ship-To address is the MR location then the Ultimate Destination address must be documented on PO)
PO Amount must be equal to or greater than Order Total
Non-Editable Format (Word/ Excel templates cannot be accepted)
Bill To Contact Name & Phone # and EMAIL for customer accounts payable dept
Ship To Contact Name & Phone #
Tax Exemption Status
Signatures (As required)

AUTO SAFETY HOUSE
a W.W.Williams company

PHOENIX
2630 W. BUCKEYE RD.
PHOENIX, AZ 85009
PHONE: (602) 269-9721

TUCSON
1402 E. BENSON HWY.
TUCSON, AZ 85714
PHONE: (520) 889-9551

HOLBROOK
840 S. HIGHWAY 77
HOLBROOK, AZ 86025
PHONE: (928) 524-3582

REMIT TO:
Auto Safety House
2630 W. Buckeye Rd
Phoenix, AZ 85009

***** Customer Review ******

Date / Time: 6/16/2021 4:11:13PM
Repair Order: 22599
Customer: 16020
Branch: 1
Invoice Total: $1,859.73

Charge

Bill To: City of Buckeye
530 E. Monroe Ave.
Buckeye, AZ 85326
Shop: 623-349-6162

Ship To: City of Buckeye
1101 E. Ash Ave
Buckeye, AZ 85326

Customer P/O: ashiner
Completion Date:

Task: 1 05-01104 Misc Material **Department: 20 TE**
Complaint: Furnish and install decked system

Supp.	Part	Description / Ref Number		U/M	Quantity	List	Price	Extended Price
	TE Shop Su	Truck Equipment shop supplies	Misc		1.00	0.00	14.25	14.25
DEC	DS3	Ford Super Duty (2017-current)	Part	EACH	1.00	2,388.75	1,566.99	1,566.99

Totals

Total Parts:	**$1,566.99**
Total Core Chg:	**$0.00**
Total Core Ret:	**$0.00**
Total EHC:	**$0.00**
Total Labor:	**$142.50**
Total Miscellaneous:	**$14.25**
Invoice Subtotal:	**$1,723.74**
Total Tax:	**$135.99**
Invoiced Total:	**$1,859.73**

Quote

Payment Method
Charge

SIGNATURE_____ DATE_____

The only warranties applying to the part(s) are those which may be offered by the manufacturer. The selling dealer hereby expressly disclaims all warranties, either express or implied, including any implied warranties or merchantability or fitness for a particular purpose and neither assumes nor authorizes any other person to assume fore it any liability in connection with the sale of this part(s) and/or service. For complete warranty limitations, disclaimers and detailed Terms and Conditions please see wwwilliams.com/Terms.
****Auto Safety House is not responsible for items left at facility beyond 14 days from invoice date.****
****QUOTED PRICES ARE VALID FOR THIRTY DAYS AFTER ORIGINAL INVOICE DATE****

B&B Enterprises
4120 E Winslow Ave #3
Phoenix, AZ 85040
Phone: 602-414-9973
Fax: 602-414-9976

Quotation

Quote To: Town of Buckeye
415 Arizona Eastern
Buckeye, AZ 85326
United States

Quote Number:	5251			**Contact:**	Beth Casillas
Quote Date:	06/17/21	**Expires:**	10/15/21	**Inquiry:**	
Customer:	BUCKEYE			**Terms:**	N30
Salesman:	House			**Phone:**	(623) 349-6840
Ship Via:	Our Truck			**FAX:**	(623) 349-6849
FOB:	Phoenix AZ				

Thank You for allowing us to quote on this project. If you have any questions, please call us at 602-414-9973.
Qty 1 = MSRP
Qty 2 = Your Cost
2022 Chevy Tahoe

Item	Part Number / Description	Revision	Quantity	Price
1	225-2402-DIV Two Drawer Box 42" x 34" x 23" tall includes 2" lip, bottom equipment drawer is 6 1/2" deep with vented front that includes a filter system, Also includes 1 removeable divider at 13 1/2". Upper drawer is 11 1/2" deep, to fit a standard Tahoe (2021+). Install frame included, T-handle locks. Aluminum Shell Construction with Steel drawers. 2" lip on sides and rear of box only. T-Handle locks and Heavy Duty Glides.		1	$2,090.0000 /EA
2	SALES TAX Sales Tax		1	$179.7400 /EA
			Total:	***$2,269.74***

By Denise Toussaint
B&B Enterprises

Sales Quotation

SQ# 201650 | May-12-2021

Bill To

Buckeye, City of
530 E Monroe
BUCKEYE AZ 85326
UNITED STATES
Phone # 6233864691

Ship To

Buckeye Fleet Maint
Filiberto Chavira
415 AZ Eastern Ave
BUCKEYE AZ 85326
UNITED STATES
Phone # 6233496842

Account : 15053	SQ# :201650
Terms : Net 25	PO# :
Due Date : Jun-06-2021	Delivery Dt: Dec-02-2020
Reference : 2022 Tahoe Patrol Whelen/Setina	
Ship By :	Rep : SUPERVISOR
Page 1 of 4	

#	Item Code	Description	Quantity	Price	UOM	Tax	Amount
		Revised 5/20/21					
		City of Mesa Contact # 2018084					
	DESIGN-450L4-TOMAR	Setina PB450L4 Lightready Pushbar w/ Tomar RECT14 on Crossbar and iLED on Side Plates 2021+ Tahoe	1	952.80	EA	83.85	952.80
		List $1191 / 20%					
	MISC	MISC - Whelen B3TRIOBPD 54" Liberity II WCX Lightbar, Trio Color, w/ 500 Series Strobe Tube and Cable for Preemption.	1	1,695.00	EA	149.16	1,695.00
		Special Pricing					
	T792HL-R-OML	Tomar Power Supply OPTICOM Compatible coded emitter	1	357.59	EA	31.47	357.59
		List $550.14 / 35%					
	I2-D	Whelen I2 ION Duo Series Red / White * Push Bumper Cross Bar	1	97.80	EA	8.61	97.80
		List $163 / 40%					
	I2-E	Whelen I2 ION Duo Series Blue / White * Push Bumper Cross Bar	1	97.80	EA	8.61	97.80
		List $163 / 40%					
	TLI2-D	Whelen TLI2 Series Red / White * Sides of Push Bumper	2	94.20	EA	16.58	188.40
		List $157 / 40%					
	PSJ02FCR	Whelen Strip-Lite +Duo Flasher Red/Blue * Rear side windows	2	103.20	EA	18.16	206.40
		List $172 / 40%					
	PSBKT90	Whelen 90 Degree Mounting Bracket	2	14.10	EA	2.48	28.20
		List $23.50 / 40%					
	MISC	MISC - Whelen OEWS54 Outer Edge Solo Red/Blue, Under Rear Spoiler	1	611.40	EA	53.80	611.40
		List $1019 / 40%					
	TLMI2-J	Whelen Mini T-Series Duo Red / Blue * Under Hatch	2	75.00	EA	13.20	150.00
		List $125 / 40%					
	60CREGCS	Whelen 6" White/ Red Dome Light * 1 Driver Compartment * 1 Hatch	2	122.40	EA	21.54	244.80
		List $204 / 40%					
	ARGES2	Whelen ARGES2 Pro Focus Arges Spot Light	2	437.40	EA	76.98	874.80
		List $ 729 / 40%					
	ARGCH1	Whelen ARGCH1 Arges Bail Mnt contro Head	1	168.00	EA	14.78	168.00
		List $280 / 40%					
	ARG54D	Whelen Arges Fender Mount 21+ Tahoe	1	54.00	EA	4.75	54.00
		Fender Mount Bracket for 2021+ Chevy Tahoe - Arges sold seperatly					
		List $90 / 40%					

Sales Quotation

SQ# 201650 | May-12-2021

Bill To

Buckeye, City of
530 E Monroe
BUCKEYE AZ 85326
UNITED STATES
Phone # 6233864691

Ship To

Buckeye Fleet Maint
Filiberto Chavira
415 AZ Eastern Ave
BUCKEYE AZ 85326
UNITED STATES
Phone # 6233496842

Account : 15053	SQ# :201650
Terms : Net 25	PO# :
Due Date : Jun-06-2021	Delivery Dt: Dec-02-2020
Reference : 2022 Tahoe Patrol Whelen/Setina	
Ship By :	Rep : SUPERVISOR
Page 2 of 4	

#	Item Code	Description	Quantity	Price	UOM	Tax	Amount
	ARG54P	Whelen Arges Fender Mount 21+ Tahoe	1	54.00	EA	4.75	54.00
		Passenger Side for Arges spot light, sold seperatly					
		List $90 / 40%					
	C399	Whelen CenCom Core Siren Amp C399	1	677.40	EA	59.61	677.40
		List $1129 / 40%					
	CCTL7	Whelen CCTL7 21 Button Control Head for Command Core	1	0.00	EA	0.00	0.00
		for use with Command Core C399					
	C399K6	Whelen OBDII Canport Cable - C399K6	1	89.40	EA	7.87	89.40
		List $149 / 40%					
	CV2V	Whelen WecanX Sync Module	1	177.00	EA	15.58	177.00
		List $295 / 40%					
	CEM16	Whelen 16 Output, 4 Input WeCanX Expansion Module	2	139.20	EA	24.50	278.40
		*** Required C399 Siren Amplifer ***					
		List $232 / 40%					
	SA315P	Whelen SA315P 100 Watt Speaker	1	196.80	EA	17.32	196.80
		List $328 / 40%					
	SAK70	Whelen Chevy Tahoe 21+ Speaker Mount	1	0.00	EA	0.00	0.00
		Whelen SA315P Bracket - sak-model:Universal -:-					
	C-VS-1012-TAH	Havis 9" Angled 22" Console for 2021 Tahoe PPV	1	415.10	EA	36.53	415.10
		List $593 / 30%					
	C-EB25-XTL-1P	Havis Faceplate for the XLT 5000 Split	1	0.00	EA	0.00	0.00
	C-EB40-CCS-1P	Havis Face Plate Whelen Cencom	1	0.00	EA	0.00	0.00
	MISC	MISC - Havis C-EB40-WSB-1P Face plate for Whelen Arges control head	1	0.00	EA	0.00	0.00
	CUP2-1001	Havis CUP2-1001 Self Adjusting Cup Holder	1	44.45	EA	3.91	44.45
		List $63.50 / 30%					
	C-ARM-102	HAVIS ARMREST SIDE MOUNT	1	52.23	EA	4.60	52.23
		List $74.62 / 30%					
	LSH-MMBP-BRACKET	LSH "L" Bracket Magnetic Mic Compatible	2	9.99	EA	1.76	19.98
	MMBP	Magnetic Mic System	2	34.95	EA	6.15	69.90
		List $34.95 / 6%					
	091-219-5	Kussmaul 091-219-5 USB Dual Port 4.8A w/terminal connectors	1	47.65	EA	4.19	47.65
	DS-138	Gamber Johnson Univ Vert Base	1	62.40	EA	5.49	62.40
		List $78 / 20%					
	7160-0178	Gamber Johnson 7" Upper Pole	1	75.20	EA	6.62	75.20
		List $94 / 20%					

Sales Quotation

SQ# 201650 | May-12-2021

Bill To

Buckeye, City of
530 E Monroe
BUCKEYE AZ 85326
UNITED STATES
Phone # 6233864691

Ship To

Buckeye Fleet Maint
Filiberto Chavira
415 AZ Eastern Ave
BUCKEYE AZ 85326
UNITED STATES
Phone # 6233496842

Account : 15053	SQ# :201650
Terms : Net 25	PO# :
Due Date : Jun-06-2021	Delivery Dt: Dec-02-2020
Reference : 2022 Tahoe Patrol Whelen/Setina	
Ship By :	Rep : SUPERVISOR
Page 3 of 4	

#	Item Code	Description	Quantity	Price	UOM	Tax	Amount
	7160-1216-09	Gamber Johnson Mongoose XLE 9" Locking Slide Arm	1	416.00	EA	36.61	416.00
		List $520 / 20%					
	PK1152TAH21	Setina 10XL C Partition Coated Poly Window w/Screen 2021+ Tahoe	1	735.20	EA	64.70	735.20
		List $919 / 20%					
	WK0514TAH21H	SETINA Window Barrier Steel Horizontal 21+ Tahoe	1	215.20	EA	18.94	215.20
		List $269 / 20%					
	DK0100TAH21	SETINA TPO Door Panels 21+ Tahoe (pair)	1	215.20	EA	18.94	215.20
		List $269 / 20%					
	MISC	Setina QK0343TAH21 Full replacement Seat w/ Smart Belt System And Rear Expanded Metal Partiton. 2021+ Tahoe	1	1,607.20	EA	141.43	1,607.20
		List $2009 / 20%					
	7010-3030-6	B&B Dual Gun Lock Rack (GR3) w/2 SC-6HC	1	446.94	EA	39.33	446.94
		List $638.49 / 30%					
	25302	Streamlight SL-20LP Black, 12 Volt Smart Charge	1	146.66	EA	12.91	146.66
		List $162.95 /10%					
	GPSB	Sharkee Base Multi Band GPS 2/3/4G WLAN	1	152.81	EA	13.45	152.81
		List $169.79 / 10%					
	AFM-835	Panorama Antenna Mast Flex 740-960 MHZ 2 3/4"	1	11.49	EA	1.01	11.49
		List $12.77 /10%					
	C29F-5QMAP	Panorama C29F-5QMAP-Radio Cable-QMA	1	52.07	EA	4.58	52.07
		List $57.86 /10%					
	C74-FP-6-TNCP	Panorama FME(m)-TNC(m) RG174 6M Cable	1	14.28	EA	1.26	14.28
		List $15.87 /10%					
	C29T-6SJ	Panorama TNC(m)-SMA(f) 6M CS29 Cable	1	25.49	EA	2.24	25.49
		List $28.32 /10%					
	PDU8S	D & R Power Distribution Unit/Watch Dog	1	227.50	EA	20.02	227.50
		List $325 /30%					
	Wire-Loom	LSH Wire, Loom & Hardware For Installation	1	200.00	EA	17.60	200.00
	INSTALL-MESA	Labor for Installation of Listed Product Plus Customer Supplied Radio, and Speaker.	45	42.50	EA	0.00	1,912.50
		Mesa Contract Labor Rate					
		* Whelen Will Supply the Following to Buckeye					
		PD/Fleet at no charge, Whelen Vehicle Safety					
		Gateway and Dual LTE/GPS antenna, Hardware					
		Plus a 2 year Subscription to Whelen Cloud Platform.*					
		** based on 2021 Tahoe ordered with opption codes					

Sales Quotation

SQ# 201650	May-12-2021

Bill To

Buckeye, City of
530 E Monroe
BUCKEYE AZ 85326
UNITED STATES
Phone # 6233864691

Ship To

Buckeye Fleet Maint
Filiberto Chavira
415 AZ Eastern Ave
BUCKEYE AZ 85326
UNITED STATES
Phone # 6233496842

Account : 15053	SQ# :201650
Terms : Net 25	PO# :
Due Date : Jun-06-2021	Delivery Dt: Dec-02-2020
Reference : 2022 Tahoe Patrol Whelen/Setina	
Ship By :	Rep : SUPERVISOR
Page 4 of 4	

#	Item Code	Description	Quantity	Price	UOM	Tax	Amount
		6J7, FLASHER SYSTEM					
		6J4, WIRING - Horn Transfer Loop					
		We recomend option DRZ, REAR CAMERA MIRROR					
		Tahoe 9C1 Package Includes Protected Idle as a Standard Feature.					

1. Pricing Valid For 60 Days from date list on quote.
2. Orders Processed after 60 Days Will Be Subject To Pricing adjustments Due To Changing Market Conditions.
3. Substitutions OR Quantity Changes Will Void Quote
4. LSH Lights Standard Terms & Conditions Apply
5. Not Responsible for Typographical Errors or omitted items. Please reivew quotes completly.

Remit Payment To:
LSH LIGHTS
PO BOX 5280
Goodyear, AZ 85338
T. 623-535-9898 option 2

Tax Details

AZ-NEW $1095.859
EXEMPT $0.000

Payment Details

Taxable	12,452.94
Tax	1,095.86
Non Taxable	1,912.50
Total	1,095.86
Balance	15,461.30

ARIZONA FUEL MANAGEMENT SPECIALIST
15841 S. 17th LANE
Phoenix, AZ 85045
ROC 328625
ROC 328626

Pd 2020-2021

CITY OF BUCKEYE
Fleet Maintenance
530 E. Monroe Ave.
Buckeye, AZ 85326

POLICE

Pricing per contract: 12090S

ESTIMATE

Estimate # 20-136

Estimate Date 08/18/2020

Item	Description	Unit Price	Quantity	Amount
Product	FuelMaster 941B700F AIM 2.4 Vehicle Kit Chevy Tahoe	289.00	7.00	2,023.00
Product	Factory Freight (Non-taxed)	472.00	1.00	472.00
Product	Sales Tax 9.3%	188.14	1.00	188.14

NOTES: DEPT: POLICE

Subtotal	2,683.14
Total	2,683.14
Amount Paid	0.00
Estimate	$2,683.14

Beaver Stripes & Molding Supply
2839 W. McDowell Rd.
WWW.BEAVERSTRIPES.COM
Phoenix, AZ 85009
602-269-8000

Quote No: 5201
Date: 12/10/20
Page: 1

Sold To: MIKE DePAULO CPFP
CITY OF BUCKEYE
415 ARIZONA EASTERN AVENUE
BUCKEYE, AZ 85326

Customer No: 3494
Phone No: 623-349-6840

Ship To: 415 ARIZONA EASTERN AVENUE
BUCKEYE, AZ 85326

Cust. Order #: POLICE TAHOE Salesperson: #13 - Jim

Product Code	Item Description	Qty	Unit Price	Amount
	POLICE TAHOE			
	3M REFLECTIVE GRAPHICS			
	REAR CHEVRON, BADGES, SIDE LETTERING			
	ROOF NUMBERS			
	P/U AND DELIVER FROM CITY YARD			
9001	COMPUTER CUT VINYL	1	359.00	359.00*
INSTALL	INSTALL/LABOR ON MATERIAL	4	60.00	240.00

Sub-Total:	599.00
:	
Shipping:	0.00
Tax [8.6]:	30.87 *
Total:	629.87
Amount Paid:	0.00
Amount Due:	0.00
Change:	0.00

Returns w/invoice. No returns on special orders or after 90 days. 20% restock fee
Thank you for shopping at Beaver Stripes

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.S. Property lease between Buckeye Union High School District No. 201 and the City of Buckeye for Street Sweeper operations
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 5, 6
STAFF LIAISON: Scott Lowe, Public Works Director, slowe@buckeyeaz.gov, (623) 349-6815	
DEPARTMENT: Public Works	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to approve a no cost property lease between the Buckeye Union High School District No. 201 and the City of Buckeye to provide a site for street sweeper debris disposal, in exchange for sweeper operations on Energy Way; and authorizing the Mayor or the City Manager to execute and deliver said lease on behalf of the City.

RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

ADDITIONAL RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:
Street sweeping for the communities within districts 4 and 5 will be more efficient if there were a location to stage a dumpster for debris accumulated within the sweepers. The Buckeye Union High School District owns property adjacent to the Airport Road Water campus that is walled in and available so that Public Works can stage a dumpster for the exclusive use of the sweepers. This will eliminate the need to bring sweepers back to the Public Works Yard for regular service, thereby increasing the efficiency of the routes. This property lease is at no financial cost; however, in exchange, the City will regularly sweep Energy Way from Verrado Way west to its termination (Energy Way in this location is a private street owned and maintained by Buckeye Union High School District). The term of the lease is five years, unless sooner terminated with 30 days notice by either party.

BENEFITS:
Increased efficiency of the required sweeping operations in this part of the City of Buckeye

FUTURE ACTION:
management of the lease agreement.

FINANCIAL IMPACT STATEMENT:
none.

CURRENT FISCAL YEAR TOTAL COST:

none

BUDGETED:
Yes

FISCAL YEAR:
2021-2022

Items related to a project or facility location must include an attached vicinity map for Council Review.

ATTACHMENTS:
EXHIBIT B.docx
EXHIBIT C.docx
EXHIBIT D.docx
Storage Area Lease.pdf

EXHIBIT B

NORTH AIRPORT ROAD
WATER CAMPUS BOUNDARY
LEGAL DESCRIPTION

April 16, 2007

A WATER CAMPUS SITUATE IN A PORTION OF THE SOUTH HALF OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 6, MONUMENTED BY A STONE, FROM WHICH THE WEST QUARTER CORNER OF SAID SECTION 6, MONUMENTED BY A STONE, BEARS AS A BASIS OF BEARINGS NORTH 00°26'05" EAST, A DISTANCE OF 2644.89 FEET;

THENCE SOUTH 89°26'17" EAST ALONG THE SOUTHERLY LINE OF THE SOUTH HALF OF SAID SECTION 6, A DISTANCE OF 1744.34 FEET TO THE TRUE POINT OF BEGINNING;

THENCE NORTH 56°01'34" WEST, A DISTANCE OF 361.88 FEET;

THENCE NORTH 00°19'48" EAST, A DISTANCE OF 304.81 FEET;

THENCE SOUTH 89°28'21" EAST, A DISTANCE OF 340.20 FEET;

Unofficial Document

THENCE SOUTH 00°00'07" WEST, A DISTANCE OF 24.34 FEET;

THENCE SOUTH 89°28'02" EAST, A DISTANCE OF 45.87 FEET;

THENCE SOUTH 00°19'48" WEST, A DISTANCE OF 479.97 FEET TO A POINT ON THE SOUTHERLY LINE OF THE SOUTH HALF OF SAID SECTION 6;

THENCE NORTH 89°26'17" WEST ALONG SAID SOUTHERLY LINE, A DISTANCE OF 84.94 FEET TO THE TRUE POINT OF BEGINNING.

THE ABOVE DESCRIBED WATER CAMPUS CONTAINS 163,591 SQUARE FEET OR 3.7555 ACRES MORE OR LESS.

SAID LANDS SUBJECT TO EASEMENTS, RIGHTS OF WAY, RESTRICTIONS AND RESERVATIONS OF RECORD, IF ANY.

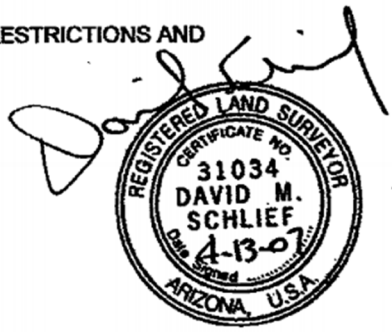

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EXHIBIT C

(Depiction of Leased Property)



EXHIBIT D

(Legal Description of Leased Property)

The northern 37,897 square feet of Buckeye Union High School owned land fully enclosed by block wall which shares approximately 304 feet of the northern portion of the City's North Airport Road Water Campus, contained within Section Six (6), Township One (1) North, Range Two (2) West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona.

LEASE AGREEMENT

This Lease Agreement (the **"Lease"**), made as of this ____ day of _____, 2021, between **BUCKEYE UNION HIGH SCHOOL DISTRICT NO. 201,** a political subdivision of the State of Arizona (**"Landlord"**) and the **CITY OF BUCKEYE, ARIZONA**, an Arizona municipal corporation (**"Tenant"**).

W I T N E S S E T H

WHEREAS, Landlord owns that certain real property (the **"Property"**) located in the City of Buckeye, County of Maricopa, State of Arizona, legally described on **Exhibit A** attached hereto; and

WHEREAS, the Property abuts certain real property owned by Tenant that Tenant uses for a water campus, legally described on **Exhibit B** attached hereto (the **"City Property"**);

WHEREAS, Tenant desires to utilize that portion of the Property located within the fence constructed by Landlord thereon, as depicted on **Exhibit C** and legally described on Exhibit D, attached hereto (the **"Lease Area"**) for the limited purposes hereinafter set forth and, for the consideration and on the terms and conditions hereinafter set forth, Landlord is willing to extend such Lease to Tenant.

NOW, THEREFORE, in consideration of good and valuable consideration, and the promises and covenants herein contained, Landlord and Tenant agree as follows:

1. **Recitals**. Landlord and Tenant acknowledge, agree to and incorporate as if fully set forth herein, the foregoing Recitals.

2. **Consideration**. In consideration of Landlord's lease of the Lease Area to Tenant, Tenant agrees to keep the Lease Area dust free and in a safe condition. Further, the Lease Area will be used by Tenant as a repository for street sweepings and Tenant shall sweep the streets in the vicinity serving the District to include Verrado Way and Energy Way, which street is owned by the District and which provides ingress and egress to District property. The consideration for this Lease shall include regular street sweeping by Tenant as described herein; however, shall not include potholing or pothole filling or other road maintenance.

3. **Use.** Landlord hereby grants to Tenant the exclusive right to use the Lease Area for purposes as described herein and consistent with Tenant's use of the Lease Area and City Property in connection with Tenant's operation of the water campus (the **"Authorized Use"**). Any and all costs associated with Tenant's Authorized Use of the Lease Area shall be at the sole cost of Tenant. Tenant shall, at its sole cost and expense, comply with all federal, state, and local laws, regulations and ordinances in effect from time to time governing Tenant's use, alteration or possession of the Property. Any alteration or modification or construction activities on or to the Lease Area shall be designed by design professionals certified by the State of Arizona and constructed by licensed contractors. Tenant shall insure that no liens of any kind, including, but not limited to, mechanic's or materialmen's liens, architect's liens, engineer's liens and/or judgment liens, shall be recorded against the Lease Area or Property in connection with Tenant's use of the Lease Area. To the extent any liens are recorded against the Property in connection with Tenant's use of the Lease Area, Tenant shall, at Tenant's sole cost and

expense, cause such liens to be removed from the Property; provided, however, that Tenant shall have no responsibility for liens against the Property that do not result from Tenant's use of the Lease Area. Upon the termination of this Lease, Tenant shall, unless otherwise agreed to by Landlord and Tenant in writing, restore the Property to the condition in which it existed immediately prior to the date of this Lease, within ninety (90) days of the date the Lease is terminated.

4. Term. The term of this Lease shall commence on the Effective Date and, unless otherwise agreed to in writing by the Parties, shall terminate on the date which is five (5) years from the Effective Date. Notwithstanding anything contained herein to the contrary, Tenant may terminate this Lease at any time upon thirty (30) days written notice to Landlord. If Tenant defaults in the performance of any obligations incumbent upon it to perform hereunder, Landlord may terminate this Lease and the rights extended to Tenant hereunder at any time, effective at the end of thirty (30) days following the date Landlord shall provide written notice of termination to Tenant, which notice shall specify such default(s). Tenant shall have said thirty (30) day period to correct and cure the specified defaults and, if so corrected and cured, to the reasonable satisfaction of Landlord, this Lease shall not be terminated but shall continue in full force and effect.

5. Ownership of Lease Area. Ownership of the Lease Area shall remain in Landlord. Except as expressly provided herein, the terms and conditions of this Lease shall not create any type of property right, title or interest in Tenant in or to the Lease Area other than the right to use the same pursuant to the terms of this Lease.

6. Maintenance. Tenant shall be responsible for the control of the Lease Area and shall, at its sole cost and expense, maintain any improvements and/or landscaping, including without limitation any grass and trees, located within the Lease Area in good condition and repair and as required to satisfy all applicable laws. Tenant shall have access over, across and under the Leasee Area for the purposes of accomplishing such repair and maintenance and shall maintain all of the foregoing in a safe condition. Landlord has a right of entry upon three (3) business days' notice to ensure the condition of the Lease Area unless there are exigent circumstances to justify entry without prior notification. This shall in no way reduce or eliminate Tenant's responsibility for maintaining the safety and clean condition of the Lease Area.

7. Indemnity. To the extent permitted by law, Tenant shall defend, indemnify and save Landlord harmless from and against any and all claims, actions, damages, liability and expense and attorney's fees in connection with loss of life, personal injury and/or damage to property arising from or out of any occurrence in, upon or at the Lease Area, or construction, use, occupation, operation, possession or management of the Lease Area unless such claim for injury or loss results directly or indirectly, from the gross negligence of Landlord or their respective officers, agents, employees, representatives, or invitees. This paragraph shall survive the termination of this Lease.

8. Compliance with Law; Waste and Nuisances Prohibited. In connection with Tenant's use of the Lease Area, throughout the term of this Lease, Tenant covenants and agrees to: (i) comply with and observe in all respects any and all federal, state and local statutes, ordinances, policies, rules and regulations, including, without limitation, those relating to the presence, use, generation, release, discharge, storage or disposal in, on or under the Lease Area of any hazardous materials (defined as any substance or material defined or designated as hazardous or toxic waste, material or substance, or other similar term, by any

federal, state or local environmental statute, regulation or occurrence presently in effect or that may be promulgated in the future); (ii) obtain any and all permits and approvals required by any unit of government other than Tenant; and (iii) commit no waste nor allow any nuisance on the Lease Area.

9. No Liability for Tenant's Personal Property. All of Tenant's personal property, and all other property in Tenant's care, custody or control, is located on the Lease Area at Tenant's sole risk and Landlord is not liable for any damage to such property or for any theft, misappropriation or loss of such property.

10. Limitation on Warranties. Except as expressly set forth herein, Landlord makes no guarantees, warranties or representations, express or implied, with respect to (a) the Lease Area, (b) the condition of title thereto, (c) the suitability thereof for any intended purpose or (d) any access to or size, location, physical condition or zoning of the Lease Area. Tenant has inspected the Lease Area and agrees to take Lease Area in its As Is condition.

11. Notices. All notices and communications provided for herein or given in connection herewith (**"Notices"**) shall be in writing and may be (i) delivered in person, or (ii) sent by certified or registered United States mail, postage prepaid, return receipt requested, or (iii) sent by a nationally recognized overnight courier service, or (iv) sent by facsimile (with a confirmatory copy sent by United States mail, postage prepaid), to the address for the applicable party set forth below:

To Landlord:	Buckeye Union High School District No. 201 Attention: Superintendent 1000 East Narramore Buckeye, Arizona 85326
Tenant:	City of Buckeye Attention: City Manager 530 East Monroe Avenue Buckeye, Arizona 85326 Facsimile Number: 623-349-6099
With a copy to:	Gust Rosenfeld, PLC One East Washington, Suite 1600 Phoenix, Arizona 85004 Attn: Shiela Schmidt, City Attorney Facsimile Number: 602-254-4878

or to such other addresses as any Party may from time to time designate in writing and deliver in the manner set forth above. Notices shall become effective upon the earliest of the following (i) personal delivery by delivery service to the designated address of that party; (ii) two (2) business days after deposit in the United States mail addressed as set forth above; (iii) confirmation of receipt by the sender if given by facsimile, provided that receipt after 5:00 p.m. or on a weekend or legal holiday shall be deemed delivered on the next business day, or (iv) one (1) business day after deposit with an overnight courier as set forth above, addressed as required herein.

12. **Conflict of Interest Statute**. This Lease is subject to, and may be terminated by the City, in accordance with, the provisions of A.R.S. § 38-511.

13. **Successors and Assigns**. The covenants, conditions, terms and provisions of this Lease shall be binding upon and shall inure to the benefit of the parties hereto and their successors and assigns.

14. **Third-Party Beneficiaries**. Except as otherwise may be specifically provided in this Lease, no other person or entity shall be entitled to rely hereon or enforce any provision of this Lease against any party hereto, whether as a third party beneficiary or otherwise, it being specifically intended that there shall be no third party beneficiaries hereto or any third party reliance hereon.

15. **Attorneys' Fees**. In the event of any litigation between the parties hereto in connection with this Lease, the party prevailing in such action shall be entitled to recover from the other party all of its costs and fees incurred in such litigation, whether or not they would be recoverable costs pursuant to court rule, together with reasonable attorneys' fees, which shall be determined by the court and not by the jury. In the event both parties are awarded relief, such costs and fees shall be awarded as the court may determine.

16. **Entire Agreement; Amendments**. Except as otherwise provided herein, all prior representations, negotiations and understandings of the parties (oral and written) related to the terms of this Lease are superseded hereby and merged into this Lease, and this Lease and the exhibits attached hereto constitute the entire agreement between the parties with respect to the subject matter of this Lease. Notwithstanding this provision, however, the parties acknowledge that there are other agreements in effect between and among the parties that touch upon the some of the same subject matters as covered by this Lease that are not effected by this Lease. To the extent there are inconsistencies between the terms of this Lease and any other agreement between the parties, the terms of this Lease control. No change or addition is to be made to this Lease except by written amendment executed by all parties.

17. **No Joint Venture**. This Lease is not intended to be, and shall not be construed as, a joint venture, partnership or other business entity created by or between the Parties, and neither Party is an agent for the other for any purpose nor has the power to bind the other for any purpose.

18. **Counterparts**. This Lease may be executed in counterparts, each of which shall be deemed an original, but all of which shall constitute one and the same instrument.

IN WITNESS WHEREOF, Landlord and Tenant have duly executed this Lease as of the day and year first above written.

LANDLORD:

BUCKEYE UNION HIGH SCHOOL DISTRICT NO. 201, a political subdivision of the State of Arizona

By: _____

Name: Kristen Ahlstrom

Its: Governing Board President

TENANT:

THE CITY OF BUCKEYE, ARIZONA
an Arizona municipal corporation

By: _____

Name: _____

Its: _____

EXHIBIT A

(Legal Description and Depiction of Property)

Lot Five (5) and the Southeast Quarter of the Southeast Quarter, except the East 660 feet thereof, of Section Six (6), Township One (1) North, Rage Two (2) West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona.

EXHIBIT B

NORTH AIRPORT ROAD
WATER CAMPUS BOUNDARY
LEGAL DESCRIPTION
April 16, 2007

A WATER CAMPUS SITUATE IN A PORTION OF THE SOUTH HALF OF SECTION 6, TOWNSHIP 1 NORTH, RANGE 2 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 6, MONUMENTED BY A STONE, FROM WHICH THE WEST QUARTER CORNER OF SAID SECTION 6, MONUMENTED BY A STONE, BEARS AS A BASIS OF BEARINGS NORTH 00°26'05" EAST, A DISTANCE OF 2644.89 FEET;

THENCE SOUTH 89°26'17" EAST ALONG THE SOUTHERLY LINE OF THE SOUTH HALF OF SAID SECTION 6, A DISTANCE OF 1744.34 FEET TO THE TRUE POINT OF BEGINNING;

THENCE NORTH 56°01'34" WEST, A DISTANCE OF 361.88 FEET;

THENCE NORTH 00°19'48" EAST, A DISTANCE OF 304.81 FEET;

THENCE SOUTH 89°28'21" EAST, A DISTANCE OF 340.20 FEET;

THENCE SOUTH 00°00'07" WEST, A DISTANCE OF 24.34 FEET;

THENCE SOUTH 89°28'02" EAST, A DISTANCE OF 45.87 FEET;

THENCE SOUTH 00°19'48" WEST, A DISTANCE OF 479.97 FEET TO A POINT ON THE SOUTHERLY LINE OF THE SOUTH HALF OF SAID SECTION 6;

THENCE NORTH 89°26'17" WEST ALONG SAID SOUTHERLY LINE, A DISTANCE OF 84.94 FEET TO THE TRUE POINT OF BEGINNING.

THE ABOVE DESCRIBED WATER CAMPUS CONTAINS 163,591 SQUARE FEET OR 3.7555 ACRES MORE OR LESS.

SAID LANDS SUBJECT TO EASEMENTS, RIGHTS OF WAY, RESTRICTIONS AND RESERVATIONS OF RECORD, IF ANY.



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EXHIBIT C

(Depiction of Leased Property)

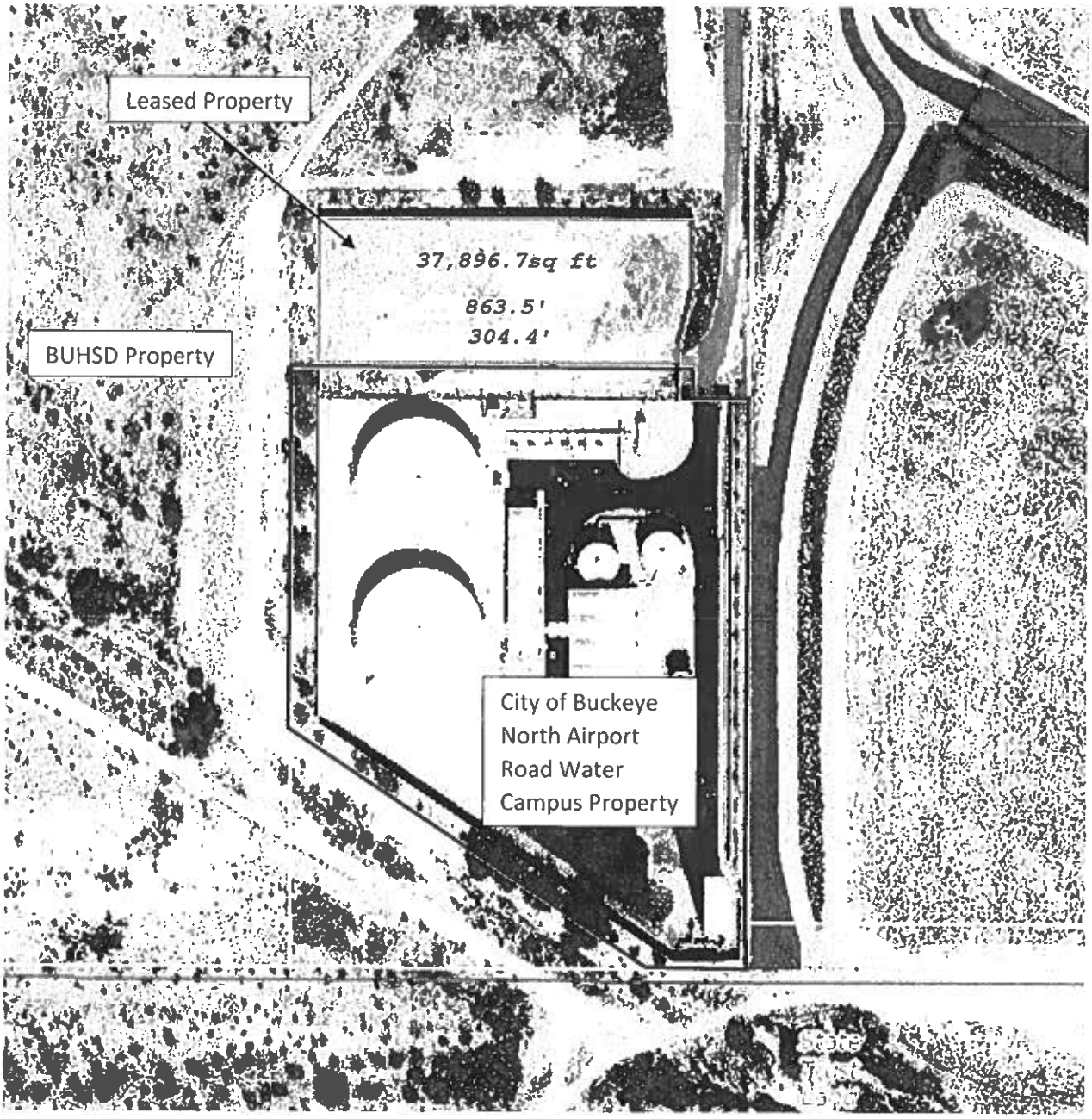

EXHIBIT D

(Legal Description of Leased Property)

The northern 37,897 square feet of Buckeye Union High School owned land fully enclosed by block wall which shares approximately 304 feet of the northern portion of the City's North Airport Road Water Campus, contained within Section Six (6), Township One (1) North, Range Two (2) West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona.

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.T. American Rescue Act Grant Funding for the Buckeye Municipal Airport
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 2
STAFF LIAISON: Jeff Webbe, Airport Coordinator, jwebbe@buckeyeaz.gov, 623-349-6880	
DEPARTMENT: Economic Development	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council) Council to take action on Resolution No. 53-21 authorizing the submission of a grant application to the U.S. Department of Transportation Federal Aviation Administration Airport Rescue Grants, under the American Rescue Plan Act of 2021 in the amount of $32,000 consistent with the requirements of the Act and applicable laws and regulations; and authorizing the Mayor and City Manager to execute and deliver related documents on behalf of the City.

RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

ADDITIONAL RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:

The American Rescue Plan Act of 2021 (H.R. 1319, Public Law 117-2), signed into law by the President on March 11, 2021, includes $8 billion in funds to be awarded as economic assistance to eligible U.S. airports to prevent, prepare for, and respond to the coronavirus disease 2019 (COVID-19) pandemic.

To distribute these funds, the FAA has established the Airport Rescue Grants. The FAA will make grants to all airports that are part of the national airport system, including all commercial service airports, all reliever airports, and some public-owned general aviation airports (including Buckeye Municipal Airport).

Under Airport Rescue Grants:

- Primary commercial service airports, those with more than 10,000 annual passenger boardings, will share nearly $6.5 billion based on the number of annual boardings, in a similar way to how they currently receive Airport Improvement Program (AIP) entitlement funds.

- Primary commercial service airports will share an additional $800 million based on the number of annual boardings, and these funds will then be available for these airports to provide relief from

rent and minimum annual guarantees to eligible in-terminal airport concessions. Airports will provide this relief to each airport concession based on its proportional share of the total annual rent and minimum annual guarantees for the airport.

- Non-primary commercial service and general aviation airports will share $100 million based on their airport categories, such as National, Regional, Local, and Basic.
    - This is the area that Buckeye Municipal Airport falls under
- Airport Improvement Program (AIP) grants awarded this year will be awarded at a 100-percent Federal share.

These funds will provide economic relief to airports around the country affected by the COVID-19 pandemic.

The FAA intends to implement this program quickly to support the economic recovery of the national airport system.
Buckeye will use these funds to pay salaries of Buckeye Airport employees.

BENEFITS:
Increase revenue for the Buckeye Municipal Airport to help offset costs and economic losses in the past year due to the pandemic

---

FUTURE ACTION:
Manage the grant funding and make regular reporting to the FAA through the DELPHI grant portal

---

FINANCIAL IMPACT STATEMENT:
Increase in revenue to the airport of $32,000 that was not budgeted

---

CURRENT FISCAL YEAR TOTAL COST:
$32,000 new revenue in FY21-22

BUDGETED:
No

FISCAL YEAR:
21-22

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
AZ BXK - SF424 Unsigned.pdf
Resolution 53-21 American Rescue Act Grant Funding for the Buckeye Municipal Airport.pdf

OMB Number: 4040-0004
Expiration Date: 12/31/2022

Application for Federal Assistance SF-424

*1. Type of Submission:	*2. Type of Application	* If Revision, select appropriate letter(s):
☐ Preapplication	☒ New	
☒ Application	☐ Continuation	*Other (Specify)
☐ Changed/Corrected Application	☐ Revision	

*3. Date Received:	4. Applicant Identifier:
NA	BXK (Buckeye Municipal) Buckeye, AZ

*5b. Federal Entity Identifier:	*5b. Federal Award Identifier:
04-0005	

State Use Only:

6. Date Received by State:	7. State Application Identifier:

8. APPLICANT INFORMATION:

*a. Legal Name: City of Buckeye

*b. Employer/Taxpayer Identification Number (EIN/TIN):	*c. Organizational DUNS:
86-6000236	08-545-2928

d. Address:

*Street 1: 530 E. Monroe Ave
Street 2:
*City: BUCKEYE
County/Parish:
*State: AZ
Province:
*Country: USA: United States
*Zip / Postal Code 85326

e. Organizational Unit:

Department Name:	Division Name:
Public Works	Airport

f. Name and contact information of person to be contacted on matters involving this application:

Prefix: *First Name: Jeff
Middle Name:
*Last Name: Webbe
Suffix:

Title: Airport Coordinator

Organizational Affiliation:

*Telephone Number: 623-349-6880 Fax Number:

*Email: jwebbe@buckeyeaz.gov

Application for Federal Assistance SF-424

***9. Type of Applicant 1: Select Applicant Type:**

X. Airport Sponsor

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

*Other (Specify)

***10. Name of Federal Agency:**

Federal Aviation Administration

11. Catalog of Federal Domestic Assistance Number:

20.106

CFDA Title:

Airport Improvement Program

***12. Funding Opportunity Number**:

NA

*Title:

NA

13. Competition Identification Number:

NA

Title:

NA

14. Areas Affected by Project (Cities, Counties, States, etc.):

***15. Descriptive Title of Applicant's Project**:

$32,000 for costs related to operations, personnel, cleaning, sanitization, janitorial services, combating the spread of pathogens at the airport, and debt service payments.

Attach supporting documents as specified in agency instructions.

OMB Number: 4040-0004
Expiration Date: 12/31/2022

Application for Federal Assistance SF-424

16. Congressional Districts Of:

*a. Applicant: 2 *b. Program/Project: 3

Attach an additional list of Program/Project Congressional Districts if needed.

17. Proposed Project:

*a. Start Date: NA *b. End Date: NA

18. Estimated Funding ($):

*a. Federal	$32,000
*b. Applicant	$0
*c. State	$0
*d. Local	$0
*e. Other	$0
*f. Program Income	$0
*g. TOTAL	$32,000

***19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

☐ a. This application was made available to the State under the Executive Order 12372 Process for review on _____.

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.

☒ c. Program is not covered by E. O. 12372

***20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation in attachment.)**

☐ Yes ☒ No

If "Yes", provide explanation and attach

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U. S. Code, Title 218, Section 1001)

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: _____ *First Name: Jeff

Middle Name: _____

*Last Name: Webbe

Suffix: _____

*Title: Airport Manager

*Telephone Number: 623-349-6815 | Fax Number:

* Email: jwebbe@buckeyeaz.gov

*Signature of Authorized Representative: | *Date Signed:

RESOLUTION NO. 53-21

A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF BUCKEYE, ARIZONA, AUTHORIZING THE SUBMISSION OF A GRANT APPLICATION TO THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION AIRPORT RESCUE GRANTS, UNDER THE AMERICAN RESCUE PLAN ACT OF 2021 IN THE AMOUNT OF $32,000 CONSISTENT WITH THE REQUIREMENTS OF THE ACT AND APPLICABLE LAWS AND REGULATIONS; AND AUTHORIZING THE MAYOR AND CITY MANAGER TO EXECUTE AND DELIVER RELATED DOCUMENTS ON BEHALF OF THE CITY.

WHEREAS, the American Rescue Plan Act of 2021 (the "Act") was signed into law by President Biden on March 11, 2021; and,

WHEREAS, the Act provides monetary relief to address the continued impact of the coronavirus disease 2019 (COVID-19) pandemic on the economy, public health, state and local governments, individuals, and businesses; and,

WHEREAS, the Act includes $8 billion in funds to be awarded as economic assistance to eligible U.S. airports to prevent, prepare for, and respond to the COVID-19 pandemic; and,

WHEREAS, to distribute these funds, the Federal Aviation Administration ("FAA") has established the Airport Rescue Grants and will make grants to all airports that are part of the national airport system, including all commercial service airports, all reliever airports, and some public-owned general aviation airports, which includes the Buckeye Municipal Airport; and,

WHEREAS, the City desires to submit the Application for Federal Assistance SF-424 grant application (the "Grant Application"), attached hereto as Exhibit "A," to the FAA requesting $32,000 in grant funds as provided for under the Airport Rescue Grant.

BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF BUCKEYE, ARIZONA, as follows:

Section 1. The recitals above are hereby incorporated as if fully set forth herein.

Section 2. The Mayor and City Council hereby approve and authorize the submission of the Grant Application to the FAA under the Airport Rescue Grant and any associated documents.

Section 3. The Mayor and City Council affirm that all funds received pursuant to the American Rescue Plan Act of 2021 and the associated Grant Application under the Airport Rescue Grant will be expended consistent with the requirements of the Act and any other applicable law, regulations, and guidance.

Section 4. The Mayor, the City Manager, the City Clerk and the City Attorney are hereby authorized and directed to execute all documents and other necessary or desirable instruments

connected with the Grant Application and to take all steps necessary to carry out the purpose and intent of this Resolution.

PASSED AND ADOPTED by the Mayor and City Council of the City of Buckeye, Arizona, this 17th day of August, 2021.

Eric W. Orsborn, Mayor

ATTEST:

Lucinda J. Aja, City Clerk

APPROVED AS TO FORM:

Shiela B. Schmidt, City Attorney

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.U. Accipiter Communications/Zona Wyyerd Telecommunications License and Right-of-Way Agreement
DATE PREPARED: 08/12/21	**DISTRICT NO.:**
STAFF LIAISON: Paul Lopez, Deputy City Engineer, plopez@buckeyeaz.gov, (623) 349-6204	
DEPARTMENT: Engineering	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on approving the Wired Telecommunications License and Right-of-Way Use Agreement between the City of Buckeye, an Arizona municipal corporation and Accipiter Communications Inc. d/b/a Zona Wyyerd, a Nevada corporation and Wyyerd Connect, LLC d/b/a Zona Wyyerd Network Services, a Delaware limited liability company; and authorizing the City Manager to execute and deliver said Agreement on behalf of the City.

RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

SUMMARY

PROJECT DESCRIPTION:
Zona Wyyred requests approval from the Council to provide telecommunication services to install, maintain, operate and repair existing and future Facilities within the right of way. The Agreement will allow Zona Wyyred to use the right-of-way for non-telecommunication services such as dark fiber leasing. Zona Wyyred will provide and maintain accurate maps of the Right-of-Way and comply with the City of Buckeye mapping requirements, and agreed to abide by the public property use requirements set forth by the City. Zona Wyyerd currently has a Telecommunications License Agreement with the City set to expire on September 4, 2021. This new Agreement will replace the expiring agreement.

BENEFITS:
The community will benefit from fiber communications.

FUTURE ACTION:
It is agreed upon that Zona Wyyerd accepts that at the time of the execution of this Agreement, it is not leasing Dark Fiber or Conduit to third-party Users within the right of way. In the future, if Zona Wyyerd leases any of its Dark Fiber or Conduits to a third-party User, Zona Wyyerd will notify the City within forty-five days.

FINANCIAL IMPACT STATEMENT:
The original terms of this License and Agreement shall begin on September 6, 2021, and end on September 4, 2026, unless sooner terminated as described in this Agreement. Zona Wyyerd agrees to pay an annual fee per the approved City of Buckeye User Fee Schedule approved on July 1, 2018. Zona Wyyerd shall pay any applicable city, county, and state transaction privilege and use tax. Additionally,

before receiving any permit to construct, install, maintain or perform any work, Zona Wyyerd will require a permit from the City applicable to City Codes with associated costs as described in the Agreement.

There is no cost to the City.

CURRENT FISCAL YEAR TOTAL COST:
N/A

BUDGETED:
No

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
Right-of-Way Agreement Accipiter Communications Zona Wyyerd Telecommunications License 8.10.2021.pdf

WIRED TELECOMMUNICATIONS LICENSE AND RIGHT-OF-WAY USE AGREEMENT BETWEEN THE CITY OF BUCKEYE AND ACCIPITER COMMUNICATIONS, INC., D/B/A/ ZONA WYYERD AND WYYERD CONNECT, LLC D/B/A ZONA WYYERD NETWORK SERVICES

This Wired Telecommunications License ("License") and Right-of-Way Use Agreement ("Agreement") is dated this 17th day of August, 2021, by and between the City of Buckeye, an Arizona municipal corporation ("City") and Accipiter Communications, Inc. dba Zona Wyyerd, a Nevada corporation and Wyyerd Connect, LLC dba Zona Wyyerd Network Services, a Delaware limited liability company (collectively "Zona Wyyerd" and/or "Licensee").

RECITALS

WHEREAS, Zona Wyyerd has obtained from the Arizona Corporation Commission a certificate of convenience and necessity to provide telecommunications services; and

WHEREAS, Zona Wyyerd desires the ability to be able to install future Facilities within the right-of-way and/or operate, maintain and repair those Facilities within a portion of the right-of-way, subject to the requirements of this License and Agreement; and

WHEREAS, Zona Wyyerd seeks an agreement to use the right-of-way for non-telecommunication services such as dark fiber leasing; and

WHEREAS, Zona Wyyerd also desires to obtain from the City a telecommunications license to provide Telecommunication Services; and

WHEREAS, City is authorized to regulate its streets, alley and public utility easements, and to grant, renew, deny, amend and terminate licenses for and otherwise regulate the installation, operation and maintenance of such Facilities within the City's boundaries pursuant to Buckeye City Code, Sections 19-6-1, et seq., and by virtue of federal (47 U.S.C. § 253) and state statutes (including, but not limited to A.R.S. §§ 9-581, 9-582, and 9-583), by the City's police powers, its authority over public right-of-way, and its other governmental powers and authority; and

WHEREAS, City wants to reserve rights to construct and use and allow others to construct and use all manner of additional improvements in the right-of-way; and

WHEREAS, Zona Wyyerd agrees to provide and maintain accurate maps showing the location of all Facilities owned or used by Zona Wyyerd on public right-of-way within City, and to comply with reasonable mapping requirements as City may establish from time to time; and

WHEREAS, Zona Wyyerd will secure the appropriate licenses, encroachment and other permits required by the City Code for the placement of its Facilities placed in the City's boundaries; and

WHEREAS, Zona Wyyerd has agreed to comply with public property use requirements that City has established and may reasonably establish from time to time in accordance with State and Federal laws,

NOW THEREFORE, for and in consideration of the foregoing, the amounts hereinafter to be paid by Zona Wyyerd, and the covenants and agreements contained herein to be kept and performed by Zona Wyyerd, and for other good and valuable consideration, the City hereby grants to Zona Wyyerd a telecommunication license ("License") and permission to use the public right-of-way pursuant to the terms and conditions set forth herein.

SECTION 1. Definitions

ACC means the Arizona Corporation Commission.

A.R.S. means Arizona Revised Statutes.

Backbone means a high-speed network that interconnects smaller, independent networks and is the through-portion of a transmission network (not the spurs that branch off).

Call means the operations required to set up or establish, maintain, and terminate or release a connection through a telephone network in support of a communication between two or more stations. A call comprises a sequence of events that begins when an end user at an originating station initiates a call request to a switch that may work in conjunction with other switches to establish a connection to an end user at a destination station, and concludes when one party (user) terminates the connection.

Claim(s) means and includes losses, claims, damages, suits, actions, payments, judgments, demands, expenses and costs, including, but not limited to, attorney's fees incurred through all appeals.

Coarse Wavelength Division Multiplexing ("CWDM") is a variation of WDM that carries four to eight wavelengths per fiber or more that is designed for short- to medium-haul networks (regional and metropolitan areas).

Commercial Mobile Radio Services means two-way voice commercial mobile radio service as defined by the FCC in 47 U.S.C. § 157.

Common Carrier means a private company offering interstate or foreign communication by wire or radio or the interstate or foreign transmission of energy to the general public on a non-discriminatory basis.

Conduit means a pipe of either metal, ceramic or plastic that protects buried cables.

Conduit System means any combination of Ducts, Conduits, manholes and handholes joined to form an integrated whole.

Contractor means any person, firm, partnership, corporation, association or other organization, or a combination of any of them, that performs services or provides goods relating to this Agreement. Contractor shall include any subcontractor hired and/or used by Zona Wyyerd Contractors for the performance of services or provision of goods relating to this Agreement.

Dark Fiber means fiber optic strands that are not connected to transmission equipment.

Dense Wavelength Division Multiplex ("DWDM") is a variation of WDM but with much higher bandwidth and density. Using DWDM, up to 80 or more separate wavelengths or channels of data can be multiplexed on a single optical fiber. Each channel carries a time division multiplexed (TDM) signal. Since each channel can carry up to 2.5 Gbps, up to 200 billion bits per second can be delivered by the optical fiber simultaneously.

Duct means a single enclosed tube, pipe or channel for enclosing and carrying cables, wires, and other facilities.

Equipment means any tangible asset used to install, repair, or maintain Facilities in any ROW.

Facilities means the plant, equipment, and property used in the provision of communication and telecommunication services and not owned by the City, including but not limited to poles, wires, pipe, conduits, pedestals, antenna, and other appurtenances placed in, on, or under Public Highways.

FCC means the Federal Communications Commission.

Fiber Optic Network is a communication system consisting of an optical transmitter to convert an electrical signal into an optical signal to send into the optical fiber, a cable containing bundles of multiple optical fibers that is routed through underground conduits and buildings, multiple kinds of amplifiers, and an optical receiver to recover the signal as an electrical signal.

Information Service means the offering of a capability for generating, acquiring, storing, transforming, processing, retrieving, utilizing, or making available information via telecommunications.

Inner-Duct means a pathway created by subdividing a Duct into smaller channels.

Intrastate Call means a call in a conventional circuit-switched network that originates and terminates in a single state.

Interstate Call means a call in a conventional circuit-switched network that originates in one state and terminates in a different state (or country).

Interstate Telecommunications Services Provider means a Telecommunications Corporation that places underground or above ground Facilities in the Public Highway for interstate telecommunications services.

Interstate Traffic means a communication or transmission that originates in any state, territory, possession of the United States, or the District of Columbia and terminates in another state, territory, possession, or the District of Columbia.

Manhole means an enclosure, usually below ground level and entered through a hole on the surface covered with a cast iron or concrete manhole cover, which personnel may enter and use for the purpose of installing, operating and maintaining cable and fiber in a Conduit.

Multichannel Video System includes:

A. A "cable system," as the term is defined in Title VI of the Federal Communications Act of 1934, providing service within the City;

B. An "Open Video System," as the term is defined in Title VI of the Federal Communications Act of 1934, 47 U.S.C. § 573 and implementing regulations (47 CFR § 76.1500), providing service within the City;

C. Any other system providing Multichannel Video Programming Services within the City, where the service is transmitted in whole or in part via wires or lines that are in or cross any ROW within the City. The preceding sentence shall apply whether the provider owns, leases or otherwise obtains the right to use the wires or lines, including wires or lines of a telecommunications provider used pursuant to tariff or otherwise for that purpose;

D. Any other system providing Multichannel Video Programming Services within the City where a license or similar permission or approval from the City is required under applicable law,

For purposes of this License, "Multichannel Video Programming Services" means multiple channels of video programming where some or all of the video programming is generally considered comparable to programming provided by a television broadcast station or by a direct to home satellite service. Multichannel Video Programming Services specifically includes, but is not limited to, "cable service" as the term is used in Title VI of the Federal Communications Act of 1934.

Parties shall collectively mean the City of Buckeye and Zona Wyyerd.

Point of Presence (POP) means a telecommunications facility where network equipment is located to be used to connect customers to a network backbone.

Provider means a Telecommunications Corporation that constructs, installs, operates or maintains telecommunications Facilities in the City Public Highways.

Public Emergency means any condition which, in the opinion of City officials, poses an immediate threat to the lives or property of the citizens of Buckeye or others caused by any natural or man-made disaster, including but not limited to, storms, floods, fire, accidents, explosions, major water main breaks, hazardous material spills, etc.

Public Highway means all the roads, streets and alleys and all other dedicated public rights-of-way and public utility easements of the City.

Public Service Corporation means a corporation engaged in furnishing gas, oil, or electricity for light, fuel, or power; or in furnishing water for irrigation, fire protection, or other public purposes; or in furnishing, for profit, hot or cold air or steam for heating or cooling purposes; or engaged in collecting, transporting, treating, purifying and disposing of sewage through a system, for profit; or in transmitting messages or furnishing public telegraph or telephone service, and all corporations other than municipal, operating as common carriers. However, a message transmitting company is only a public service corporation if it is a common carrier.

Public Utility Easement means an easement or other real property right that is granted dedicated, reserved or otherwise conveyed for the use of utility facilities, regardless of the language used in creating such right, and regardless of the inclusion of other authorized uses.

Right-of-way ("ROW") means an area of land, which by deed, conveyance, agreement, easement, dedication, usage or process of law, is reserved or dedicated to the City for public purposes, including, but not limited to, street, highway, alley, public utility, pedestrian walkway, bikeway, or drainage.

Service Lateral means an underground facility that is used to transmit, distribute, or furnish communications from a common source to an end-use customer.

Telecommunications means the transmission, between or among points specified by the user, of information of the user's choosing, without change in the form or content of the information as sent and received. **However, the term does not include commercial mobile radio services, pay phone services, interstate services, cable services, or the leasing of dark fiber for transmission purposes.**

Telecommunications Corporation means any Public Service Corporation to the extent that it provides telecommunications services in this state.

Telecommunications Services means the offering of telecommunications for a fee directly to the public, or to such users as to be effectively available directly to the public, regardless of the facilities used.

Users means unrelated (unaffiliated) third parties of Zona Wyyerd that are leasing Zona Wyyerd's Facilities.

Wavelength Division Multiplexer ("WDM") means a device that combines optical signals from multiple different single-wavelength end devices onto a single fiber. WDM carries two to four wavelengths per fiber.

SECTION 2. Permission to Use Right-of-Way

2.1 Grant of License. Subject to the provisions of this Agreement, the Buckeye City Code, and Arizona and federal law, City hereby grants to Zona Wyyerd permission to use the designated portions of the right-of-way ("ROW") set-forth on Exhibit "A" subject to and conditioned upon Zona Wyyerd's full, timely, complete and faithful performance of all obligations to be performed or required hereunder by Zona Wyyerd, and Zona Wyyerd hereby accepts the terms and conditions of this License and Agreement.

2.2 Conditions of Grant; Permitted Uses. Zona Wyyerd's use and occupation of the ROW shall in all respects conform to all and each of the following provisions:

2.2.1 Permitted Uses. Zona Wyyerd shall use the portions of the ROW solely for the uses allowed under this License and Agreement and shall conduct no other activity at or from those designated portions of the ROW where it has permission to be. The permitted uses are limited to the following:

2.2.1.1 Constructing, maintaining, repairing and operating the Facilities as described in this Agreement for the provision of services and the leasing of Facilities.

2.2.1.2 To the extent that any Fiber Optic Networks within the route within the City carry intrastate and/or interstate Calls as referenced by A.R.S. §§ 9-582 and 9-583, the City hereby grants Zona Wyyerd a revocable and nonexclusive Telecommunications License ("License") to run concurrently with the term of this Agreement. The permission granted herein shall be limited to the Fiber Optic Network routes identified in the map submitted to the City as part of Zona Wyyerd's application and to future expansions or extensions that are done by Zona Wyyerd in accordance with Section 12.

2.2.1.3 Such additional related uses for which City may give consent from time to time. Such additional uses may only be conducted following City's giving to Zona Wyyerd notice of such consent. City may terminate or impose conditions and limitations on such consent from time to time in City's sole and absolute discretion.

2.3 Prohibited Uses. All other uses of the ROW are prohibited. Zona Wyyerd may not allow third parties to use the Facilities for any use that Zona Wyyerd itself does not have the authority under this License and Agreement to use the Facilities for.

2.3.1 The Telecommunications License granted by this Agreement does not allow Zona Wyyerd to provide one-way transmissions by anyone directly to customers or any other type of video programming or other programming or transmission that may be subject to

a cable television or video services system license or franchise. This License does not allow a Multichannel Video System and/or the providing of Multichannel Video Programming Services and the Parties agree that a separate agreement would be needed in order to have such a system or to provide such services.

2.4 Facilities Limited. The authority to install and construct any Conduit System and/or Fiber Optic Networks on City property granted herein authorizes Zona Wyyerd only to install such Fiber as is necessary to construct and operate the infrastructure described in this Agreement in order to provide the authorized services and does not authorize Zona Wyyerd to install or construct any Facilities not expressly provided for in this Agreement.

2.5 Empty Conduit. To the extent that Zona Wyyerd occupies the ROW solely with empty conduit and/or leased dark fiber and/or uses the City's ROW to provide services other than the telecommunication services as defined by A.R.S. § 9-581 or internet services, such use and/or occupation of the ROW is subject to the terms and conditions of this Agreement and any applicable fees, permits and laws.

2.5.1 Licensee warrants and represents that at the time of the execution of this Agreement, it is not leasing Dark Fiber or Conduit to third party Users within the public rights-of-way. In the future, should Licensee lease any of its Dark Fiber or Conduits to Users, Zona Wyyerd shall notify the City within forty-five (45) days of the location and footage of such leased Dark Fiber or Conduit route(s).

2.6 Compliance with Laws. Zona Wyyerd shall comply with all applicable laws as amended from time to time, including but not limited to, the Buckeye City Code and Arizona and federal law in the exercise and performance of its rights and obligations under this Agreement. If it is necessary for Zona Wyyerd to comply with any law or regulation of the FCC or the ACC to engage in the business activities anticipated by this Agreement, Zona Wyyerd shall comply with such laws or regulations as a condition precedent to exercising any rights granted by this Agreement. Provided, however, no such law or regulation of the FCC or ACC shall enlarge or modify any of the rights or duties granted by this Agreement without a written modification to this Agreement.

SECTION 3. Non-Exclusive Rights/Priority Rights

3.1 Non-Exclusive Grant. This grant is not exclusive and nothing herein contained shall be construed to prevent City from granting other like or similar grants or privileges to any other person, firm or corporation, or to deny to or lessen the powers and privileges granted City under the Constitution and laws of the State of Arizona.

3.2 Subject to City's Use or Occupancy. Any and all rights granted to Zona Wyyerd shall be subject to the prior and continuing right of City to use the ROW exclusively or concurrently, with any other person or persons, and to manage City's own facilities. Any and all rights to occupy the ROW granted to Zona Wyyerd shall also be subject to all deeds, easements, dedications, conditions, covenants, restrictions, encumbrances, and claims to title which may affect public property. Nothing in this License shall be construed to grant, convey, create or vest a perpetual real property interest in land to Zona Wyyerd, including any fee or leasehold interest, easement, or any franchise rights.

3.3 Subject to Others' Use or Occupancy. Any right or privilege claimed pursuant to this Agreement by Zona Wyyerd for any use of any public ROW shall be subordinate to: A) any prior or subsequent lawful occupancy or use thereof by the City or any other governmental entity; B) any prior lawful occupancy or use thereof by any other person; C) and to any prior easements therein, provided however, that nothing herein shall extinguish or otherwise interfere with property rights established independently of this Agreement.

3.4 Rights Reserved to City. There is hereby reserved to City every right and power required pursuant to this Agreement to be herein reserved or provided by any lawful ordinance and Zona Wyyerd by its execution of this Agreement agrees to be bound thereby and to comply with any lawful action or lawful requirements of the City in its exercise of such rights or power, heretofore or hereinafter enacted or established. Neither the granting of any Agreement nor any provision hereof shall constitute a waiver or bar to the exercise of any lawful governmental right or power of City.

3.5 City's Modification Rights. Nothing in this Agreement shall be construed to prevent the City from abandoning, altering, improving, repairing, or maintaining its Facilities and/or the ROW, and for that purpose to require Zona Wyyerd, at no expense to the City, to remove, relocate or abandon in place Zona Wyyerd's Facilities in order to accommodate the reasonable activities of the City. The City shall not be liable for lost revenues sustained by Zona Wyyerd, however caused, because of damage, modification, alteration, or destruction of its Facilities in the ROW, when such costs or lost revenues result from the construction, operation, and/or maintenance of City facilities and/or the ROW, provided that the activities resulting in such costs or lost revenues are conducted in accordance with applicable laws and regulations and do not result due to the City's gross negligence or willful misconduct.

SECTION 4. Notice of Other Users

4.1 Third Party Contracts. Zona Wyyerd may enter into contracts with Users in the ordinary course of Zona Wyyerd's business for use of the Conduit Systems, Dark Fiber, and/or Fiber Optic Networks within the portions of the ROW subject to this Agreement. Such contracts ("User Contracts") shall be subject to all requirements and provisions of this Agreement and the following:

4.1.1 No person shall transmit voice, video or data over the Fiber Optic Networks or otherwise use the Conduit System(s) except under a User Contract with Zona Wyyerd.

4.1.2 Such Users shall not perform any construction, maintenance, repair or other work of any kind in the ROW related to the Fiber Optic Networks, Dark Fiber, or Conduit System(s) and the identity of such Users must be disclosed to the City upon request but such information will be considered Confidential and Proprietary under Section 31.2.3. All User Contracts shall prohibit such Users from performing any construction, maintenance, repair or other work of any description in the ROW related to the Fiber Optic Networks, Dark Fiber, or Conduit System(s), unless such Users have an agreement with the City.

4.1.3 In the event the User Contract provides for the User to construct, install, operate or maintain any portion of the Fiber Optic Networks, Dark Fiber, or Conduit System(s) within the route in the ROW, no such arrangement shall proceed until the User enters into an Agreement with the City for use of the City's ROW.

4.2 Zona Wyyerd Responsible For Users. Zona Wyyerd shall take reasonable steps to cause all persons using the ROW through or under Zona Wyyerd or this Agreement to comply with this Agreement. Zona Wyyerd is responsible for any violations of this Agreement by persons using the ROW through or under Zona Wyyerd or this Agreement for whom Zona Wyyerd may be legally liable.

4.3 Dark Fiber Leases. Should Zona Wyyerd lease Dark Fiber or Conduit to a User within the ROW, Zona Wyyerd shall inform the City within forty-five (45) business days of the location and length of the Dark Fiber or Conduit route that is being leased through an indefeasible right of use agreement or similar contractual arrangement. Pursuant to Section 21.2.4 of this Agreement,

a pro-rated ROW use fee will be calculated from the date the Dark Fiber or Conduit is leased to a User to the anniversary date of the Agreement and such amount will be added on to the annual fee that will be due on the anniversary date of the Agreement. This additional footage will be added to any current leased Dark Fiber or Conduit footage and used in the calculation of the total annual fee owed on the anniversary date of this Agreement. Identification of the lessee will be kept confidential to the extent allowed by law. If there is a public records request for such information, City will contact Zona Wyyerd to allow it an opportunity to seek judicial relief to prevent the disclosure of the lessee's identity.

4.4 Future In-Kind Services Agreement. This agreement does not provide for any future in kind payments by Zona Wyyerd. In the event the Parties agree to in-kind services in lieu of fees owed, a separate written agreement between the City and Zona Wyyerd shall be entered into.

SECTION 5. Description of the Services and Routes

5.1 Zona Wyyerd's Authorized Uses. Zona Wyyerd currently uses its Fiber Optic Network to provide voice, data and Internet services, and point to point broadband.

5.2 Zona Wyyerd's CC&N. Zona Wyyerd's CC&N only authorizes it to provide local exchange service and all intraLATA telecommunication services in Arizona.

SECTION 6. Regulatory Conditions Relating to Right-of-Way Usage

For purposes of this Agreement, whenever work is done in the ROW relating to any of the Facilities, Zona Wyyerd agrees that it is solely responsible for the acts, errors, omissions, and any negligence of any or all of its Contractors and that the obligations of Sections 6 and 7 are imposed on both Zona Wyyerd and any of its Contractors, who will be considered Zona Wyyerd's agents and for whom Zona Wyyerd will be responsible. Zona Wyyerd will ensure that Zona Wyyerd and its agents comply with Public ROW use requirements as follows:

6.1 Registration. Zona Wyyerd agrees to register with the City by completing an application or renewal application form and paying the applicable application fee.

6.2 Notice of Changes. Zona Wyyerd shall file a proposed amendment to the registration before it makes any change that would render the registration information incomplete or inaccurate. A change of Zona Wyyerd's name or address must be filed at least ten (10) days prior to the date the change becomes effective; a change in the telephone number must be filed ten (10) days before the change becomes effective.

6.3 Facilities Construction. Zona Wyyerd is completely responsible for ensuring that its Facilities are constructed, installed, operated and/or maintained in accordance with the Buckeye City Code and established practices with respect to such public ROW and easements such as the proper permits being applied for prior to commencing any work and that the terms and conditions of such permits are strictly followed.

6.4 Plan Approval. Zona Wyyerd's use of the public ROW and easements under the control of the City shall be according to plans approved by the City Engineer, provided that such approval shall not be unreasonably withheld or delayed.

6.5 Interference Minimized. The Facilities to be constructed, installed, operated, maintained, upgraded and removed hereunder, shall be so located or relocated as to interfere as little as possible with traffic or other authorized uses within said public ROW and easements. Any phases of construction and/or installation relating to traffic control, backfilling, compaction and paving, as well as the location or relocation of said Facilities shall be subject to regulation by the City

Engineer.

6.6 City's Reserved Powers. Zona Wyyerd and its agents shall be subject to the City's exercise of such police, regulatory and other powers as it now has or may later obtain, and Zona Wyyerd may not waive the application of the same. City shall have continuing jurisdiction and supervision over any Facilities located within or on public ROW. Daily administrative, supervisory, and enforcement responsibilities shall be delegated and entrusted to the City Manager or designee to interpret, administer and enforce the provisions of this License and Agreement.

SECTION 7. Plan Approval, Permits, and Inspection

7.1 Required Approvals. No Facilities shall be installed, constructed, located on, or attached to any property within the City until Zona Wyyerd has applied for and received approval for permits from the City Engineer. Zona Wyyerd shall be solely responsible for any and all acts, errors, omissions and negligence of its Contractor(s) who are involved in the installation, construction, maintenance, repair, location, relocation and any other activity involving Zona Wyyerd's Facilities subject to this License and Agreement. Additionally, Zona Wyyerd and its Contractor(s) shall comply with all other provisions of the Buckeye City Code, regarding streets and sidewalks, and other applicable City and/or Maricopa County regulations. All rights hereunder are granted under the express condition that the City shall have the power at any time to impose lawful restrictions and limitations upon, and to make regulations as to Zona Wyyerd's use of the public ROW as may be deemed best for the public interest, safety, or welfare to the same extent that such restrictions and limitations are applied to all non-governmental users of the public ROW.

7.2 Permits; Licenses. Zona Wyyerd shall submit the applicable Permit Application(s) together with the details, plans and specifications for City review and approval, and pay all applicable application, review and inspection fees prior to any and all construction work performed pursuant to the rights granted under this Agreement. Zona Wyyerd and/or its Contractor(s) shall abide by all stipulations of all licenses and permits issued. If Zona Wyyerd desires to change the location of any portion of the Conduit System(s) and/or Fiber Optic Network(s), including any related Facilities or equipment, from that set forth in the initial Permit Application, Zona Wyyerd shall apply for and obtain approval for an amendment to the permit prior to installation or construction.

7.3 Multiple Permit Policy. The City may issue reasonable policy guidelines to all licensees/users to establish procedures for determining how to control issuance of engineering permits to multiple licensees/users for the same one mile segments of their Facilities. Zona Wyyerd agrees to cooperate with the City in establishing such policy and comply with the procedures established by the City Engineer or designee to coordinate the issuance of multiple engineering permits in the same one mile segments.

7.4 Approval; Denial. City will approve or deny such applications based on the availability of space at the location sought by Zona Wyyerd, safety and other considerations in accordance with the City's Code, applicable ROW construction regulations and other applicable law. Zona Wyyerd and/or its Contractor(s) agree to comply with the terms of any City-issued licenses and permits.

7.5 Construction Standards. Any new Conduit or other Facilities placed in the ROW will be constructed using industry standard horizontal directional drilling and trenching construction methods. Other material placed in the ground may include concrete manholes, generally 4x4x4, pull boxes/handholes and HDPE couplings and elbows, fiber optic cable, splice cases, tracer wire, grounding material, mule tape, jet string and conduit plugs. Zona Wyyerd and/or its Contractor(s) will install any new Conduit and access points (manholes/pull boxes) using industry standard practices and in full compliance with Uniform Standard Specifications and Details for Public Works Construction sponsored and distributed by the Maricopa Association of Governments as

amended (hereinafter referred to as "MAG"), any City's supplements to MAG, and the City of Buckeye encroachment and other permit regulations.

7.6 System Component Changes. If Zona Wyyerd desires to change the components of any of the Fiber Optic Network and such would require Zona Wyyerd to obtain a permit, written approval of such change must be obtained from a representative of the City Engineer pursuant to the City's permitting process.

7.7 Specifications. The City shall have the right to inspect all construction or installation work performed subject to the provisions of this License and to make such tests as it shall find necessary to meet City standards and the MAG Uniform Standard Specifications and Details for Public Works Construction to ensure compliance with the terms of this License and other pertinent provisions of law.

7.8 New System Installation. Any new Conduit system(s) and/or Fiber Optic Network(s) shall be installed as agreed upon by Zona Wyyerd and the City. If portions of this project will take place on the major arterial streets in City, Zona Wyyerd and City will work to minimize the inconvenience to the citizens of City and others who use those major arterial streets impacted by the project by developing segments of the project to be completed in sequence.

7.9 Minimal Interference. Any Conduit systems and/or Fiber Optic Network(s) to be constructed, installed, operated and maintained under this Agreement shall be located or relocated so as to interfere as little as possible with traffic, existing utilities or other authorized uses over, under or through said streets and public ways. Zona Wyyerd shall not install, operate, or allow the use of equipment, methodology or technology that may or would unreasonably interfere with the optimum effective use or operation of City's existing or future fire, emergency or other communications equipment, methodology or technology (i.e., voice or other data carrying receiving or transmitting equipment). If such unreasonable interference should occur, Zona Wyyerd shall immediately discontinue using the equipment, methodology or technology that causes the interference until Zona Wyyerd takes corrective measures to alter the Fiber Optic Network(s) to eliminate such interference. Any such corrective measures shall be made at no cost to City. Zona Wyyerd shall be responsible to ensure compliance with this Agreement by all persons using the ROW through or under Zona Wyyerd or this Agreement.

7.10 Co-location & City Conduit. Zona Wyyerd's installation of the Facilities shall be reasonably coordinated with other utilities and City to accommodate opportunities for common installation along with Zona Wyyerd's route as set forth in this Agreement. Provided there is sufficient advance notice during the permitting process, Zona Wyyerd shall allow the City to either add conduit for the City's benefit during Zona Wyyerd's installation or Zona Wyyerd shall install conduit for the City's benefit during Zona Wyyerd's installation. The City shall pay Zona Wyyerd the cost of all materials for such installation. Nothing herein shall require Zona Wyyerd to incur any additional expense to accommodate common installations. All installations of cable and/or fiber shall be in Conduit or Innerduct as reasonably approved by the City Engineer.

7.11 Facility Location Street Opening. Although the exact placement and location of any additional Facilities shall be determined by City through the permit process, Zona Wyyerd has expressed its intent and City has expressed its desire to have any Facilities installed outside of the paved street areas whenever such location is feasible and reasonable. Further, if it is the intent and desire of Zona Wyyerd for the Conduit System to be placed by horizontal directional drilling under such streets when feasible and reasonable, bore profiles based on vacuum pothole information shall be part of the engineered plans submitted to the City. Arterial streets shall not be bored unless approved by the City Engineer. In the event that a street opening in new pavement or resurfaced pavement cannot be avoided, a non-discriminatory, reasonable

surcharge fee to cover damages and early deterioration will be assessed when Zona Wyyerd is cutting new or resurfaced pavements less than seven years old.

7.12 Zona Wyyerd Representative. Zona Wyyerd shall also provide and identify a representative, such as a project manager, who shall be the contact person for the City during any construction periods.

7.13 Neighbor Notification. Prior to the start of any construction work, Zona Wyyerd shall provide written notice to the businesses and/or residences adjacent to the work being done.

7.13.1 If an emergency requires activity without such written notice, Zona Wyyerd shall use reasonable best efforts to provide timely actual notice to the owners or other persons having lawful control of the adjoining property. Upon request, Zona Wyyerd shall promptly furnish to City documentation of such permission from such other affected property owner.

7.14 Opening or Altercation. Whenever Zona Wyyerd or its Contractors shall cause any opening or alteration to be made for any purpose in any public streets, or public places, the opening or alteration shall be completed and restored with due diligence within seven (7) business days or such time as allowed by the City Engineer. Zona Wyyerd shall upon the completion of the opening or alteration, restore the property, improvements or landscaping disturbed by Zona Wyyerd or its Contractors to a condition substantially comparable to the condition before the opening or alteration and the restoration shall be performed with due diligence within a reasonably prompt time.

7.15 Traffic Control.

7.15.1 All traffic shall be regulated in accordance with MAG and applicable City policies and regulations.

7.15.2 At the time of the pre-construction conference, Zona Wyyerd shall designate an American Traffic Safety Services Association (ATSSA) certified individual who is well qualified and experienced in construction traffic control and safety, to be responsible for implementing, monitoring, and altering traffic control measures as necessary to insure that traffic is carried through the work area in an effective manner and that motorists, pedestrians, bicyclists, and workers are protected from hazard and accidents. At the same time, the City shall designate a representative who will be responsible to see that all traffic control and traffic control alterations are implemented per these traffic control specifications.

7.15.3 Zona Wyyerd shall have the full responsibility and liability for traffic control for work performed by Zona Wyyerd or their Contractors. Zona Wyyerd shall submit a Traffic Control Plan to the Public Works Department for approval one week prior to beginning work under this Agreement. It shall be noted that Traffic under this Agreement shall include all motor vehicles, bicyclists, and pedestrians. Zona Wyyerd shall not begin construction until the Traffic Control Plan is approved by the City. An approved Traffic Control Plan shall be maintained onsite during all phases of construction, otherwise construction will cease until the Traffic Control Plan is approved.

7.15.4 During construction it may be necessary to alter traffic control as approved by Public Works. Alterations to traffic control shall be in accordance with the latest edition of Part VI of the Manual on Uniform Traffic Control Devices: "Traffic Control for Streets and Highway Construction and Maintenance Operations"; the latest edition of the City of

Phoenix Traffic Control Manual; or City regulations or policies. The most restrictive requirements shall apply. Zona Wyyerd shall pay any and all applicable barricade fees.

7.15.5 City will make no payment for traffic control. The cost for any fees shall be Zona Wyyerd's responsibility.

7.15.6 In the event Zona Wyyerd or its Contractor(s) damages any traffic signal equipment, traffic signal conduit, loop detectors and/or circuits, it shall have them repaired immediately at its expense by an electrical Contractor that has had traffic signal experience which is pre-approved by the City. Any damage caused by Zona Wyyerd or its Contractor(s) or subcontractors that is repaired by the City will be billed to Zona Wyyerd at cost.

7.15.7 Zona Wyyerd shall notify all adjacent or affected residents or businesses at least forty-eight (48) hours in advance of any street, alley, sidewalk, and driveway closures so that the recipients of said notices can make suitable arrangements to have all vehicles moved to a satisfactory location outside the closed area.

7.15.8 Pedestrian access shall be maintained along the length of the project at all times per the requirements of the ADA and as approved by Public Works.

7.15.9 Speed limits shall be strictly enforced.

7.15.10 For more information, please contact the City of Buckeye Public Works Department.

7.16 Clean Up. Zona Wyyerd and/or its Contractor(s) shall, during construction and upon completion of the work, remove all temporary construction facilities, debris, and unused materials provided for in the work, and put the work site of the work and public ROW in a safe, neat and clean condition.

7.17 Safety. Zona Wyyerd and Zona Wyyerd's Contractor(s) shall be solely and completely responsible for the conditions of any job site where the infrastructure is being placed, including safety of all persons (including employees) and property during performance of the work. This requirement shall apply continuously and not be limited to normal working hours. Safety provisions shall conform to all applicable federal (including OSHA), state, county, and local laws, ordinances, codes, and regulations. Where any of these are in conflict, the more stringent requirement shall be followed. Zona Wyyerd's failure to thoroughly familiarize itself with the aforementioned safety provisions shall not relieve Zona Wyyerd from compliance with these provisions.

7.18 Blue Stake. Zona Wyyerd and its Contractor(s) shall comply with A.R.S. §§ 40-360.21 through 40-360.32 by participating as a member of the Arizona Blue Stake Center with the necessary records and persons to provide location service of Zona Wyyerd's Facilities upon receipt of a locate call or as promptly as possible, but in no event later than two working days. A copy of the agreement or proof of membership shall be filed with the City Engineer.

SECTION 8. Hazardous Substances

8.1 Applicable Law. Zona Wyyerd's and its Contractor(s)' activities upon or about the ROW shall be subject to the following regarding any hazardous or toxic substances, waste or materials, or any substance now or hereafter subject to regulation under the Comprehensive Environmental Response Compensation and Liability Act, 42 U.S.C. §§ 9601, et. seq., the Arizona Hazardous

Waste Management Act, A.R.S. §§ 49-901, et. seq., the Resource Conservation and Recovery Act, 42 U.S.C. §§ 6901, et. seq. or the Toxic Substances Control Act, 15 U.S.C. § 2601, et. seq. or any other federal, state, county or local law pertaining to hazardous substances, waste or toxic substances and their reporting requirements (collectively "Toxic Substances").

8.2 Toxic Substance Restrictions. Zona Wyyerd and/or its Contractor(s) shall not produce, dispose, transport, treat, use or store any Toxic Substances upon or about the ROW. The prohibitions of the preceding sentence only shall not apply to:

8.2.1 Ordinary gasoline, diesel fuel or other fuels or lubricants necessary for ordinary use in motor vehicles and ordinary construction machinery permitted upon the ROW. Such materials must be properly and lawfully contained in ordinary quantities in ordinary tanks and receptacles that are permanently installed in such vehicles and machinery, or small portable tanks that are being used for fueling permitted construction machinery.

8.2.2 Electric backup batteries.

8.3 Disposal. Zona Wyyerd and/or its Contractor(s) shall dispose of any Toxic Substances away from the ROW as required by law and as reasonably required by City.

8.4 Use Restriction. Zona Wyyerd and/or its Contractor(s) shall not use the ROW in a manner inconsistent with regulations issued by the Arizona Department of Environmental Quality, or in a manner that would require a permit or approval from the Arizona Department of Environment Quality or any other governmental agency. The preceding sentence does not prohibit ordinary permits for control of dust during construction permitted by this Agreement.

8.5 City Held Harmless. In addition to and without limitation of any other indemnities or obligations, Zona Wyyerd shall pay, indemnify, defend and hold City harmless against any loss or liability incurred by reason of any Toxic Substance on or affecting the portion of the ROW used that is attributable to or directly caused by Zona Wyyerd, its Contractor(s) or anyone using the ROW under this Agreement.

8.6 Notice of Toxic Substances. Zona Wyyerd and/or its Contractor(s) shall immediately notify City of any Toxic Substance at any time discovered or existing upon the ROW. Zona Wyyerd is not responsible for Toxic Substances that may exist at the ROW if Zona Wyyerd's Contractors and/or any other persons using the ROW under this Agreement did not do any of the following: (A) Knowingly participate in the Toxic Substance coming to the ROW; (B) Fail to immediately report the known Toxic Substance to City; (C) Knowingly participate in spreading or otherwise disturbing the Toxic Substance; (D) Knowingly exacerbate the effects of the Toxic Substance or the difficulty or cost of dealing with the Toxic Material.

8.7 Acknowledgement. Zona Wyyerd understands the hazards presented to persons, property and the environment by dealing with Toxic Substances. Zona Wyyerd acknowledges the possibility that the ROW may contain actual or presumed asbestos and other Toxic Substances containing materials.

8.8 Notice of Violation. Within twenty-four (24) hours after any violation by Zona Wyyerd and/or by its Contractor(s) of this Agreement pertaining to Toxic Substances, Zona Wyyerd shall give City notice reporting such violation.

SECTION 9. On-Call Assistance

Zona Wyyerd shall be available to staff employees of any City department having jurisdiction over Zona Wyyerd's activities twenty-four (24) hours a day, seven (7) days a week, regarding problems or complaints resulting from the installation, operation, maintenance, or removal of its Network. City may contact by telephone the responsible person at Zona Wyyerd at the following phone number (602) 692-0068 regarding such problems or complaints, and may use that number in order to reach Zona Wyyerd at any time for any emergency matter. Zona Wyyerd shall use reasonable efforts to respond to any issues within the time frames specified in its service level agreements. Zona Wyyerd shall make arrangements with a local entity to handle any necessary problems or complaints that require a physical presence.

SECTION 10. Mapping Requirement

10.1 As-Built Drawings. Zona Wyyerd shall maintain As-Built Drawings of its Facilities located within the ROW and furnish a copy both electronically (or in a mapping format compatible with the current City electronic mapping format as specified by the City) on an annual basis or upon reasonable request by the City. Zona Wyyerd shall create and maintain maps of any of its Conduit System and/or Fiber Optic Network routes, new routes, and any above ground equipment located in the ROW and precise and verifiable horizontal and vertical location information and will make this information available to the City. Zona Wyyerd will also provide surface-location marking of any of Zona Wyyerd's Facilities that are located underground within any public ROW within ten (10) business days of installation. The information provided by Zona Wyyerd under this section will be accurate to the best of Zona Wyyerd's knowledge. Zona Wyyerd shall make every reasonable effort to provide accurate and useful information, and the City acknowledges that the information will be provided on an "as-is" and "as-available" basis. Zona Wyyerd shall be permitted to remove any information from the drawings provided hereunder that is not required for the City's purposes or is otherwise confidential to Zona Wyyerd.

10.2 Failure to Provide Updates. If complete updates are not provided in a compatible format, Zona Wyyerd shall pay the actual, reasonable costs the City incurs to update the City's electronic mapping format due to the location or relocation of Zona Wyyerd's Facilities. However, before the City incurs any cost to convert updates provided by Zona Wyyerd, it will notify Zona Wyyerd that it cannot access the updates that have been provided. If within fourteen (14) days, Zona Wyyerd has not either provided compatible updates or provided the City an agreeable date by which such updates will be received by City, City will convert the incompatible updates unilaterally.

10.3 Incorrect Format Records. In the event Zona Wyyerd fails to supply records in the City specified format and there is a cost to the City in converting Zona Wyyerd provided files, Zona Wyyerd will be responsible for the conversion costs and will pay such costs within thirty (30) days of the date of the bill from the City invoicing the amount due. However, before the City incurs any cost to convert Zona Wyyerd-provided files, it will notify Zona Wyyerd that it cannot access the records that have been provided. If within fourteen (14) days, Zona Wyyerd has not either provided compatible records or provided the City an agreeable date by which such records will be received by City, City will convert the incompatible records unilaterally.

10.4 Confidentiality. The files and drawings provided by Zona Wyyerd to the City shall be considered confidential and subject to the restrictions in Section 31 below and disclosed as a public record only to the extent required by A.R.S. § 39-126.01.

SECTION 11. Relocation

11.1 Relocation. Zona Wyyerd shall relocate at no expense to the City any Facilities or other encroachment installed or maintained in, on or under any public place or ROW, as may be necessary to facilitate any public purpose whenever directed to do so by City. Such relocations shall be accomplished in accordance with the directions from City and shall be pursuant to the same terms and conditions as the initial installation allowed pursuant to this License and any applicable issued permits. Within ninety (90) days after service of notice by the City, Licensee shall remove the designated portions of the Facilities, or in the event that, by the nature of the removal such removal cannot be performed within the ninety-day period, Licensee shall take reasonable steps to remove the Facilities and diligently prosecute the removal to completion, and, if requested, restore the sidewalks and other ROW to a condition comparable to the condition before the construction of the public improvement at no cost and expense to the City. City agrees to cooperate with Licensee to identify alternate locations where available within the ROW.

11.2 Permits. Zona Wyyerd agrees to obtain a permit as required by this Agreement prior to removing, abandoning, relocating or reconstructing of any portion of its Conduit System(s) or Fiber Optic Network(s) on public property or ROW. Notwithstanding the foregoing, City understands and acknowledges there may be instances when Zona Wyyerd is required to make repairs that are of an emergency nature or in connection with an unscheduled disruption of the Facilities. Zona Wyyerd will maintain any annual permits required by the City for such maintenance and emergency repairs. If a Traffic Control Plan cannot be submitted prior to an emergency repair, Zona Wyyerd may proceed with such repair but acknowledges that it is responsible for implementing a traffic control plan in accordance with the requirements of Section 7.15 above, including the specific requirements in Section 7.15.4, and assumes all risk for such repair. Zona Wyyerd will notify City before the repairs and will apply for and obtain the necessary permits in a reasonable time after notification.

11.3 City Self-Help. If the City needs to perform any part of the necessary relocation or removal work that has not been done within the time required by the City, it shall be entitled to seek payment for such relocation costs by drawing upon the letter of credit or security fund required by this Agreement pursuant to Section 25.

11.4 Zona Wyyerd Consent. Except as otherwise provided herein, City shall not, without the prior written approval of Zona Wyyerd, intentionally alter, remove, relocate or otherwise interfere with any portion of Zona Wyyerd's Facilities. Any written approval required shall be promptly reviewed and processed by Zona Wyyerd and shall not be unreasonably withheld.

SECTION 12. Expansion or Extension of the Current Use Area

12.1 Approval Required. Any further expansion and/or extension of Zona Wyyerd's Fiber Optic Network and or empty Conduit placement shall require written approval from a representative of the City Engineer pursuant to the City's permitting process.

12.2 Expansions Governed by this Agreement. Zona Wyyerd agrees that such further expansions and/or extensions shall be at all times governed by the terms and conditions of this Agreement. Zona Wyyerd shall obtain all required permits in connection with any such expansion or extension.

12.3 Required Information. Upon request for an encroachment permit, requests for expansions and/or extensions should identify the route, number of conduits, size of conduits, fiber count and intended use.

SECTION 13. Damage to Public Property

13.1 Duty to Restore Damage. In addition to any indemnity obligation under this License and Agreement, whenever the installation, use, maintenance, removal, or relocation of any of Zona Wyyerd 's Facilities is required or permitted under this Agreement, and such installation, removal or relocation damages or disturbs the surface or subsurface of any ROW or public property or the public improvement located thereon, therein, or thereunder, however such damage or disturbance was caused, Zona Wyyerd, at its sole cost and expense, shall promptly restore the surface or subsurface of the ROW or public property and/or repair or replace the surface, subsurface and/or public improvement therein, or thereunder, in as good a condition as before in accordance with applicable laws, normal wear and tear excepted, reasonably satisfactory to the City Engineer. If Zona Wyyerd does not repair the damage or disturbance as just described, then City shall have the option, upon ten (10) days prior written notice to Zona Wyyerd, to perform or cause to be performed such reasonable and necessary work on behalf of Zona Wyyerd and to charge Zona Wyyerd for the proposed costs to be incurred or the actual costs incurred by the City at City's standard rates.

13.2 Emergency Restoration. Notwithstanding the notice provision above, in the event of a Public Emergency, the City shall have the right to immediately perform, without prior written notice to Zona Wyyerd, such reasonable and necessary work on behalf of Zona Wyyerd to repair and return public property to a safe and satisfactory condition in accordance with applicable laws, normal wear and tear excepted, reasonably satisfactory to the City Engineer. The City shall provide written notice to Zona Wyyerd of the repairs as soon as practicable after the work has begun. Zona Wyyerd agrees that any severed City-owned Conduit and/or fiber must be completely repaired or replaced to the nearest splice point. If the City needs to perform any part of the necessary repairs, relocation and/or removal work, it shall be entitled to seek payment for such repairs, relocation and/or removal costs from Zona Wyyerd and may draw upon a bond and/or letter of credit or security fund required by this Agreement in full or partial satisfaction of such costs, if payment is not made by Zona Wyyerd as required by Section 13.3 below.

13.3 Demand and Reimbursement. Upon the receipt of a demand for payment by City, Zona Wyyerd shall, within thirty (30) days, reimburse City for any costs due or owed under this Agreement.

13.4 Restoration. For any pavement cuts by Zona Wyyerd, Zona Wyyerd agrees to restore the pavement and to reimburse the City for all costs arising from the reduction in the service life of any public road. Zona Wyyerd agrees to pay within thirty (30) days from the date of issuance of an invoice from City. Failure to do so shall entitle City to draw upon the letter of credit or security fund and/or performance bond.

SECTION 14. Public Emergency Disruption by City

City shall have the right, because of a Public Emergency, to sever, disrupt, remove, tear out, dig-up or otherwise damage and/or destroy Facilities of Zona Wyyerd without any prior notice to Zona Wyyerd, if the action is deemed necessary by either the City Manager, Fire Chief, Police Chief, City Engineer, or Public Works Director or designee. In such event, neither the City nor any agent, Contractor or employee of City shall be liable to Zona Wyyerd, its Contractors or its customers or their parties for any harm so caused to them or the Facilities, unless such damages are caused by City's gross negligence or willful misconduct. When practical and if possible, City will consult with Zona Wyyerd in advance to assess the necessity of such actions and to minimize to the extent practical under the circumstances damage to and disruption of operation of the Fiber Optic Networks. City shall inform Zona Wyyerd of any actions taken. Zona Wyyerd shall be responsible

for repair at its sole expense of any of its Facilities damaged pursuant to any such action taken by City.

SECTION 15. Public Safety/Public Emergency

15.1 Hazards. If any of Zona Wyyerd's Facilities or activities present any immediate hazard or impediment to the public, to the City, to other improvements or activities within or outside of the route area(s), or to City's ability to safely and conveniently operate the ROW or perform City's utility, public safety and/or other public health, safety and welfare functions, then Zona Wyyerd shall immediately remedy the hazard, comply with City's request to secure the route area, and otherwise cooperate with City at no expense to City to remove any such hazard or impediment.

15.2 Public Emergency. In the event of a Public Emergency, neither the City nor any agent, Contractor or employee of the City shall be liable to Zona Wyyerd or its Contractors or its customers or other third parties for any harm so caused to them by the reasonable actions of the City or its agents, Contractors or employees in responding to such public emergency, unless such damages are caused by City's gross negligence or willful misconduct. When practical and if possible, City will consult with Zona Wyyerd in advance to assess the necessity of such actions and to minimize, to the extent practical under the circumstances, damage to and disruption of either the public property involved or the Facilities involved.

SECTION 16. Contractors

16.1 Licensing. Any Contractors performing construction work within the ROW or public easements shall comply with licensing requirements of the Arizona General Contractors. All Licensee employees, contractors and subcontractors shall carry an identification card bearing their name and photograph and Licensee's logo or name, or the name or logo of Licensee's contractor or subcontractor.

16.2 Coverage. Zona Wyyerd represents and warrants all independent Contractors maintain coverages in the same manner as stated herein for Zona Wyyerd.

SECTION 17. Legal Workers

If, and to the extent A.R.S. § 41-4401 is applicable to this Agreement, Zona Wyyerd shall comply with laws regarding workers as follows:

17.1 Warranty of Compliance. Zona Wyyerd warrants to City that Zona Wyyerd and all of its Contractors will comply with all federal immigration laws and regulations that relate to their employees and that there is compliance with the E-Verify Program under A.R.S. § 23-214(A).

17.2 Breach of Warranty. A breach of the foregoing warranty by Zona Wyyerd shall be deemed a material breach of this Agreement that is subject to penalties up to and including termination of this Agreement.

17.3 Inspection of Records. City retains the legal right to inspect the papers of any employee of Zona Wyyerd Contractor who works pursuant to this Agreement to ensure that they are complying with the warrant given above.

17.4 Violations. Zona Wyyerd shall indemnify, defend and hold City harmless for, from and against all losses and liabilities arising from any and all violations of the warranty given above.

SECTION 18. Effective Date and Validity of Agreement

18.1 Effective Date. This Agreement is effective at 12:01 am on September 6, 2021.

18.2 Representation and Validity. Zona Wyyerd shall acknowledge that as a condition of acceptance of this Agreement, Zona Wyyerd was required to be represented throughout the negotiations of the Agreement by its own attorneys and Zona Wyyerd had the opportunity to consult with its own attorneys about its rights and obligations regarding the Agreement. Zona Wyyerd has reviewed City's authority to execute and enforce this Agreement and has reviewed all applicable law, both federal and state, and, after considering same, Zona Wyyerd acknowledges and accepts the right and authority of City to execute this Agreement and to enforce the terms herein.

SECTION 19. Term of Agreement

The original term of this License and Agreement shall commence at 12:01am on September 6, 2021 and shall terminate 11:59 p.m. on September 4, 2026, unless sooner terminated as set forth in this Agreement.

SECTION 20. Modification, Renewal, Extension

20.1 Renewal Process. If Zona Wyyerd wishes to renew its License and continue using the ROW, then at least one hundred eighty days (180) days prior to the expiration of this License and Agreement, Zona Wyyerd shall apply to the City for a new License and Agreement in accordance with the then existing federal, state, and local laws.

20.2 Renewal Fee. Zona Wyyerd shall pay to City the applicable fee at the time of the submission of the application.

20.3 Agreement Changes. City shall have the right to renegotiate any of the terms from the prior agreement that may be required by applicable federal, state or local law or regulations. Zona Wyyerd understands that the City may adopt future code amendments and/or fee schedules relating to Facilities located within the ROW, which may replace in its entirety the current fees and other costs imposed upon Zona Wyyerd under this Agreement. Zona Wyyerd acknowledges the right of the City to adopt and implement such lawful code amendments and/or fee schedules.

20.4 Holdover Term. If Zona Wyyerd's Facilities remain in the ROW, and Zona Wyyerd continues to use such Facilities beyond the expiration of the license term and pay the annual fees, the License shall be considered to be in a "Holdover Term," subject to the terms and conditions of this Agreement. Such Holdover Term, however, shall not exceed 60 days beyond the expiration of the term or until the date of the first City Council meeting scheduled immediately after the expiration of the term, and no permits will be issued to Zona Wyyerd by the City until a new License has been approved by the City Council, unless the parties are engaged in bona fide negotiations for a successor agreement.

20.5 Expiration of Holdover Term. Failure by Zona Wyyerd to have a valid License and Agreement to use the ROW by the expiration of the Holdover Term shall result in immediate withdrawal and revocation of any existing permits issued by the City to Zona Wyyerd and the liquidated damages amount set forth in Section 33 shall apply. If, however, Zona Wyyerd has timely filed its application and is in active negotiations with the City prior to the expiration of the License and Agreement, the City may, in its discretion, grant, extend, or take no action on permits issued to Zona Wyyerd prior to the expiration of the Agreement.

SECTION 21. Payments

21.1 No Rights Waived. By entering into this Agreement, neither party waives any current or future rights reserved under the Telecommunications Act of 1996, including but not limited to, those rights set forth in Sections 253(c), reserving the City's right to manage the public ROW and to require fair, non-discriminatory and reasonable compensation from Zona Wyyerd for use of the public ROW.

21.2 Payments to City. Zona Wyyerd shall be solely responsible for payments to City as follows:

21.2.1 Application Fee. Zona Wyyerd shall pay City an application fee in the amount of Three Thousand Five Hundred and 00/100 Dollars ($3,500.00) for the administrative costs involved in the issuance of a telecommunications license, which shall be due at the time of the submittal of the application.

21.2.2 Transaction Privilege Tax. Zona Wyyerd will owe transaction privilege tax on any qualifying services under Buckeye City Code.

21.2.3 ROW Usage Fee for Provision of Interstate Telecommunication Services. A Fiber Optic Network in the ROW that carries interstate traffic between and among Zona Wyyerd's interstate points of presence exclusive of the Fiber Optic Network used by the local network and the portion of the interstate network that carries intrastate calls is subject to an annual fee based on the number of linear feet of trench in the ROW. The annual fee is Three Dollars and Eighteen Cents ($3.18) per linear foot, which shall be adjusted annually as provided in Section 21.2.3.1.

21.2.3.1 Commencing on the first anniversary date of this Agreement and continuing through the fifth year of the term, the linear foot fee shall be escalated annually each July 1 based on the United States Department of Labor, Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers, West Region for All Items (CPI). If there is no increase in the CPI, the fee shall remain what it was for the prior year.

21.2.3.2 Zona Wyyerd warrants and represents that it has no route within Buckeye that currently provides solely interstate telecommunication services exclusive of facilities used by the local network and the portion of the interstate network that carries intrastate calls. If and when there are portions of Zona Wyyerd's routes that provide interstate telecommunication services exclusive of facilities used by the local network and the portion of the interstate network that carries intrastate calls, Zona Wyyerd will immediately notify the City of the location and footage of such route(s) and pay a pro-rated linear foot fee that is due for the length of such route(s). At the next anniversary date of the Agreement, the yearly fee for such additional footage will be added to the current annual fee.

21.2.3.3 Upon each anniversary of this Agreement, any fee owed will be adjusted as provided by Section 21.2.3.1 above, and payment made by as required by Section 21.3.

21.2.4 Compensation for Use of ROW. Zona Wyyerd agrees to pay an annual fee for the portion of the ROW solely used by Zona Wyyerd for Dark Fiber or Conduit leasing to Users and any other uses other than (a) those conforming to the definition of Telecommunication Services as defined in A.R.S. § 9-581 and (b) Internet access. Unless

a different calculation for fair and reasonable compensation is agreed to by the City, the fee will be calculated at the same linear foot rate as in Section 21.2.3 above. Upon each anniversary of this Agreement, any monetary fee will be adjusted as provided by Section 21.2.3.1 above, and payment made by as required by Section 21.3. Fees based on linear feet of right-of-way under Sections 21.2.3 and 21.2.4 shall not apply to any time period during which Zona Wyyerd is providing in-kind services to the City under Section 22.

21.2.4.1 Zona Wyyerd warrants and represents that at the time of the execution of this Agreement, it is not leasing Dark Fiber or Conduit to third party Users within the ROW. In the future, should Zona Wyyerd lease any of its Dark Fiber or Conduits to a third-party User, Zona Wyyerd shall notify the City within forty-five days of the location and footage of such leased Dark Fiber or Conduit route(s) and pay a pro-rated linear foot fee that is due for the length of ROW used solely for such services in accordance with Section 21.2.4, unless a different calculation for fair and reasonable compensation is agreed to by the City or unless Zona Wyyerd is providing in-kind services to the City under Section 22.

21.3 Annual Payments. For any undisputed annual payment(s) owed, Zona Wyyerd shall make such payment(s) to the City within thirty (30) business days of the effective date of this Agreement and by the anniversary of such effective date thereof for the duration of the term.

21.4 Arrearage. As of the date of this Agreement, the City agrees that Zona Wyyerd has paid all amounts due and no further amounts are owed.

21.5 Permit Fees. Zona Wyyerd shall pay all applicable construction permit fees to place Facilities in the ROW, which includes charges for encroachment permit applications, issuance, inspection, testing, plan review and any other fees adopted by City and applicable to persons doing work and/or encroaching in the City's ROW pursuant to Buckeye City Code.

21.6 Damage Fees. Zona Wyyerd shall pay any reasonable costs associated with any damage caused to the ROW or public property.

21.7 Pro-rated Fees. Within thirty (30) days after the issuance of a permit for the installation of additional footage of Conduit(s), if such installation subjects Zona Wyyerd to an annual fee pursuant to Section 21.2.3 or Section 21.2.4 above (if applicable), Zona Wyyerd will pay a pro-rated portion of the annual fee, as adjusted, per linear foot for that section of its expanded route. The prorated annual fee shall be determined by multiplying the annual footage fee, as adjusted, for the year of payment, by a fraction, the numerator of which is the number of full months between the month installation and the next following anniversary date of this Agreement and the denominator of which is twelve (12).

21.7.1 In the event, Zona Wyyerd cancels or returns a permit and does not construct or install Facilities, which had been approved by such a permit, the footage fees previously paid for ROW or public property used or occupied by Zona Wyyerd shall be applied as a credit toward any annual fee or refunded to Zona Wyyerd by City.

21.8 Checks. Any checks should be sent to:

City of Buckeye
Attn: City Manager
530 East Monroe Ave.
Buckeye, Arizona 85326

21.9 Interest. Zona Wyyerd agrees that if it fails to pay any amounts owed to the City by the time prescribed for payment, Zona Wyyerd shall pay interest on the amounts owed, at the rate of one percent (1%) per month. If the dispute is later resolved in favor of the City, Zona Wyyerd will owe the interest on the amount determined to be owed.

SECTION 22. In-Kind Payment in Lieu of Fees Owed

This Agreement does not currently provide for any future in kind payments by Zona Wyyerd, however, should annual fees based on linear foot rates be owed under Section 21 above, City and Zona Wyyerd may enter into a separate agreement for such services or facilities.

SECTION 23. Taxes

Zona Wyyerd shall pay any applicable city, county and state transaction privilege and use tax. Such taxes are in addition to any non-tax amounts owed by Zona Wyyerd pursuant to Section 21. Zona Wyyerd consents to the disclosure of any and all information reported on Zona Wyyerd's transaction privilege tax returns by authorizing and allowing the City's tax collector to release such information to the City Manager or designees. Nothing in this Agreement is intended to alter, amend, modify or expand the taxes and fees that may lawfully be assessed on Zona Wyyerd's business activities under this franchise under applicable law.

SECTION 24. Performance Bond

24.1 Bond Requirements. Prior to receiving any permit to construct, install, maintain or perform any work on public property that requires a permit from the City pursuant to applicable City codes, Zona Wyyerd shall cause to be filed and maintain until either completion of the construction or termination of this Agreement as determined by Zona Wyyerd, a faithful performance bond in favor of City in the sum of One Hundred Thousand Dollars ($100,000) or the amount of the construction costs (whichever is greater) to guarantee that Zona Wyyerd shall observe, fulfill and perform each and every term of this Agreement. In case of any breach of any condition of this Agreement, any amount of the sum in the bond, up to the whole thereof, may be forfeited to compensate City for any damages it may suffer by reason of such breach. Said bond shall be acknowledged by Zona Wyyerd, as principal, and shall be issued by a surety with an AM Best rating of A-VII or better for the last four quarters. City and Zona Wyyerd agree that the process and procedure for drawing upon, curing, and replenishing the performance bond shall be the same as set forth below for the security fund and/or letter of credit.

24.2 Bond Release. If Zona Wyyerd has completed the above construction and wants the bond released, the City will need to inspect and approve the construction prior to such release. However, a performance bond will be required for each subsequent or additional construction project and/or work on public property.

SECTION 25. Security Fund

25.1 Deposit Required. Upon application for use of the ROW, but no later than five (5) business days before this Agreement is submitted to the City Council for approval, Zona Wyyerd shall provide either a cash deposit or domestic irrevocable standby letter of credit to the City Engineer in the initial amount of Fifty Thousand Dollars ($50,000) as a security fund that is in a form as approved by the City Attorney. Said cash deposit or letter of credit shall be maintained with the City for the term of this Agreement as security for the faithful performance by Zona Wyyerd of all the provisions of this Agreement, and compliance with all lawful orders, permits and directions of any department or office of the City having jurisdiction over its acts or defaults under this Agreement and any permit issued pursuant thereto, and the payments by Zona Wyyerd of any fees, claims, liens and taxes due the City which arise by reason of the construction, operation or

maintenance of the Facilities. Upon material default that remains uncured (after written notice) for greater than thirty (30) days the City shall have the full power of withdrawal of funds from the cash deposit put into the security fund account or letter of credit except that all interest accrued on any cash deposit shall be payable to Zona Wyyerd on demand. No withdrawals shall be made from the security fund account without the prior written approval of the City Manager and sixty (60) days prior written notice of intent to withdraw to Zona Wyyerd.

25.2 Withdrawal. Within twenty (20) days after notice to Zona Wyyerd that any amount has been withdrawn by City from the security fund account or letter of credit, Zona Wyyerd shall deposit a sum of money sufficient to restore such security fund account to the original amount or present to the City an additional irrevocable letter of credit in said amount so that the total amount of funds available to the City is Fifty Thousand Dollars ($50,000).

25.3 Restoration of Deposit Amounts. If Zona Wyyerd fails, within ten (10) business days of a notice of intent to draw on either the security fund account or on the letter of credit, to either dispute the notice in writing; or pay City any taxes or fees due and unpaid; or fails to repay to City, within such ten (10) business days of such notice, any damages, costs or expenses which City shall be compelled to pay by reason of any act or default of Zona Wyyerd in connection with this Agreement; or fails, within thirty (30) days of such notice of failure by City to dispute the notice in writing, or comply with any provision of this Agreement which City reasonably determines can be remedied by an expenditure of funds from the cash deposit in the security fund account or letter of credit, City may immediately withdraw the amount thereof, with interest from the security fund account. Upon such withdrawal, City shall notify Zona Wyyerd of the amounts and date thereof.

25.4 Erroneous Withdrawal. Any funds that City erroneously or wrongfully withdraws shall be returned to Zona Wyyerd, with interest of 1.0% per month, within thirty (30) business days of such a determination.

25.5. Rights Reserved. The rights reserved to City, with respect to the security fund account and/or letter of credit, are in addition to all other rights of City whether reserved by this Agreement or authorized by law, and no action, proceeding or exercise of a right with respect to such security fund account or letter of credit shall affect any other right City may have.

SECTION 26. Insurance

26.1 Minimum Limits of Insurance. Zona Wyyerd shall at all times during the term of this Agreement, at its own cost and expense, carry and maintain for the mutual benefit of the City and Zona Wyyerd, general public liability insurance against claims for bodily injury, death or property damage, products/completed operations and personal and advertising injury, which insurance shall cover claims as may be occasioned by the operations, act, omission or negligence of Zona Wyyerd or its officers, agents, representatives, employees or servants during all times that this License and Agreement is in effect. Insurance limits are inclusive of umbrella coverage. Zona Wyyerd shall maintain limits no less than those stated herein for each type of insurance.

26.2 General Requirements. Zona Wyyerd's insurance of the types and amounts required in this section shall be from companies possessing a current A.M. Best, Inc. rating of A-VII, or better and legally authorized to do business in the State of Arizona.

26.2.1 All insurance required herein shall be maintained in full force and effect until all work or services required to be performed under the terms of this Agreement is satisfactorily completed and formally accepted. Failure to do so may, at the sole discretion of City, constitute a material breach of this Agreement and may result in termination of this Agreement.

26.2.2 The insurance coverage, except workers' compensation and professional liability, required by this Agreement, shall name City, its agents, representatives, directors, officials, and employees, as additional insureds, and shall specify that insurance afforded Zona Wyyerd shall be primary insurance, and that any self-insured retention and/or insurance coverage carried by City or its employees shall not contribute to the coverages provided by Zona Wyyerd. This provision and the naming of the City as an additional insured shall not be construed as giving rise to responsibility or liability of the City for applicable deductible amounts under such policy(ies).

26.2.3 The insurance policies shall contain a waiver of transfer rights of recovery (subrogation) against City, its agents, representatives, officers, directors, officials and employees for any claims arising out of Zona Wyyerd 's acts, errors, mistakes, omissions, work or service.

26.2.4 The insurance policies may provide coverage, which contain deductibles or self-insured retentions. Such deductible and/or self-insured retention shall be assumed by and be for the account of, and at the sole risk of Zona Wyyerd who shall be solely responsible for the deductible and/or self-insured retention. The amounts of any self-insured retentions shall be noted on the Certificate of Insurance. Self-insured retentions of up to One Million Dollars ($1,000,000) shall be accepted.

26.2.5 Upon receipt of notice from its insurer(s) Zona Wyyerd shall provide the City with thirty (30) days prior written notice of cancellation of any coverage required herein.

26.2.6 Zona Wyyerd shall be responsible for ensuring that the City is notified within the above noted time period of the occurrence of any reduction in the insurance coverage amounts, cancellation or expiration of any of the policies as required by this License and Agreement.

26.2.7 Zona Wyyerd shall require all Contractors and subcontractors to obtain and maintain substantially the same insurance with substantially the same limits as required of Zona Wyyerd.

26.2.8 City reserves the right to periodically review said insurance limits to ensure coverage based on market and risk requirements throughout the effective term of this Agreement.

26.3 Proof of Insurance-Certificates of Insurance.

26.3.1 Upon execution of this Agreement, Zona Wyyerd shall furnish to City Certificates of Insurance issued by Zona Wyyerd's agent or broker, as evidence that policies providing the required coverages, conditions and limits required by this Agreement are in full force and effect and obtain from the City's Risk Management Division approval of such Certificates. Such certificate(s) shall include the endorsement listing the City as an Additional Insured pursuant to Section 26.2.2 and shall be attached as Exhibit B to this Agreement.

26.3.2 If a policy does expire during the life of this Agreement, a renewal certificate must be sent to the City prior to the expiration date.

26.3.3 All Certificates of Insurance shall identify the required policies in effect on behalf of Zona Wyyerd, their policy period(s), and limits of liability. Coverage shown on the Certificate of Insurance must coincide with the requirements in the text of the Agreement documents. Information required to be on the Certificate of Insurance may be

typed on the reverse of the Certificate and countersigned by an authorized representative of the insurance carrier or agent. Copies of the initial Certificate of Insurance and any and all subsequent renewals that are required under this Agreement shall be sent to:

City of Buckeye
Attn: Risk Manager
530 East Monroe Ave.
Buckeye, Arizona 85326

26.4 Required Coverage.

26.4.1 Such insurance shall protect Zona Wyyerd from claims set forth below that may arise out of or result from the operations of Zona Wyyerd under this Agreement and for which Zona Wyyerd may be legally liable, whether such operations be by Zona Wyyerd or by a consultant or Contractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts Zona Wyyerd may be legally liable. Coverage under the policy will be at least as broad as Insurance Services Office, Inc., policy form CG 00 01 10 01 and CG 20 37 07 04 or equivalent thereof, including but not limited to severability of interest and waiver of subrogation clauses.

26.4.2 Claims for damages because of bodily injury, sickness or disease, or death of any person other than the Zona Wyyerd's employees;

26.4.3 Claims for damages insured by usual personal and advertising injury liability coverage;

26.4.4 Claims for damages, because of injury to or destruction of tangible property, including loss of use resulting therefrom;

26.4.5 Claims involving contractual liability insurance applicable to Zona Wyyerd's obligations under the Indemnification Agreement.

26.5 Commercial General Liability – Minimum Coverage Limits. The Commercial General Liability insurance required herein shall be written for not less than Five Million Dollars ($5,000,000) limits of liability. Any combination between general liability and excess general liability alone amounting to a minimum of Five Million Dollars ($5,000,000) per occurrence and an aggregate of Ten Million Dollars ($10,000,000) in coverage will be acceptable. The Commercial General Liability additional insured endorsement shall be as broad as the Insurance Services, Inc.'s (ISO) Additional Insured, Form B, CG 20 10 10 01 and CG 20 37 07 04, and shall include coverage for Zona Wyyerd 's completed operations and products.

26.6 Worker's Compensation and Employer's Liability. Zona Wyyerd shall maintain Worker's Compensation insurance to cover obligations imposed by federal and state statutes having jurisdiction over Zona Wyyerd's employees engaged in the performance of the work or services; and Employer's Liability insurance of not less than One Million Dollars ($1,000,000) for each accident, One Million Dollars ($1,000,000) disease coverage for each employee, and One Million Dollars ($1,000,000) disease policy limit. In case any work is subcontracted, Zona Wyyerd will require the Contractor to provide Worker's Compensation and Employer's Liability to at least the same extent as required of Zona Wyyerd.

26.7 Automobile Liability. If Zona Wyyerd owns and/or operates vehicles in Arizona, Zona Wyyerd shall maintain Commercial/Business Automobile Liability insurance with a combined single limit for bodily injury and property damage of not less than Five Million Dollars ($5,000,000) each occurrence with respect to any owned, hired, and non-owned vehicles assigned to or used

in performance of the Zona Wyyerd's work. Coverage shall be at least as broad as coverage Symbol 1, "any auto", (Insurance Service Office, Inc. Policy Form CA 0001 0306, or any replacements thereof). Such insurance shall include coverage for pollution for upset/overturn/collision of the automobile(s) and loading and offloading hazards if hazardous substances, materials or wastes are to be transported and a MCS 90 endorsement shall be included with coverage limits of Five Million Dollars ($5,000,000) per accident for bodily injury and property damage. For automobile liability insurance, contractors may require limits usual and customary for the operations but no less than One Million Dollars ($1,000,000).

SECTION 27. Indemnity

27.1 Generally. Zona Wyyerd acknowledges that it has liability for any and all of its Facilities installed in the public ROW and for its use of the ROW and for its exercise of its rights under this License and Agreement directly or through its Contractor(s), except to the extent of intentional acts or gross negligence on the part of the City. To the fullest extent permitted by law, Zona Wyyerd, shall defend, indemnify and hold harmless the City, or its officials, boards, commissions, agents or employees, individually and collectively, from and against any and all Claims as defined in Section 1 arising out of or alleged to have resulted from or materially related to the acts, errors, mistakes, omissions of Zona Wyyerd, its employees, agents, or any tier of Contractors or any other person for whose acts, errors, mistakes, or omissions Zona Wyyerd may be legally liable and from any Claims or amounts arising or recovered under workers compensation laws or any other law, bylaw, or ordinance, order or decree related to any failure on the part of Zona Wyyerd, its agent, employees or representatives to fulfill Zona Wyyerd's obligations under this Agreement, whether resolution of the above Claim(s) proceeds to judgment or not. The provisions of this paragraph shall survive termination of this Agreement. This indemnification applies even if the party seeking damages makes a claim against the City or brings a claim against the City based on vicarious liability or non-delegable duty.

27.2 Defense Costs. Zona Wyyerd further agrees to indemnify and hold harmless the City, its officers and its employees from and against all costs, damages, and expenses incurred by the City, its officers and its employees in the defense of any litigation brought by third parties challenging the right of the City to enter into this Agreement with Zona Wyyerd under City or other applicable law.

27.3 Tender of Defense. In the event that any notice of claim is served or litigation is commenced, City shall tender the defense of the litigation to Zona Wyyerd, who shall immediately defend the litigation. Zona Wyyerd shall have the right to retain counsel of its own choice, to settle all or any part of the litigation on terms acceptable to Zona Wyyerd (and, where such terms directly obligate or affect City, acceptable to City). Zona Wyyerd agrees to keep the Buckeye City Attorney informed of the status and progress of all litigation involving the City that has been tendered to Zona Wyyerd or its insurance carrier.

27.3.1 Notice. The Parties shall promptly notify each other in writing of any claims, demands, or lawsuits which may involve the City and provide copies of all relevant accident reports, incident reports, statements or other documents relevant to or which may lead to relevant materials or information, in the possession of the other party, its employees, agents, subcontractors, and/or others, promptly upon request.

27.3.2 Relevant Information. Both Parties agree to make their employees, agents, and Contractors available to the other party to gather any relevant information relating to an incident in which claims, demands, or lawsuits arise from.

27.4 Construction of Interpretation. It is the purpose of this section to provide maximum indemnification to City under the terms and conditions expressed and, in the event of a dispute,

this section shall be construed (to the greatest extent permitted by law) to provide for the indemnification of the City by Zona Wyyerd against any and all Claims. The sole exception shall be an express determination by a court of competent jurisdiction upon full adjudication of the case that the damages arose only from City's sole gross negligence or intentional acts. Only in this event may Zona Wyyerd then commence an action against City for damages related to that portion judicially determined to be City's fault.

27.5 Survival. The provisions of Section 27 shall be and remain a binding right and obligation of the City and Zona Wyyerd. It is the intent of Zona Wyyerd and the City upon the effective date of this Agreement that this Section serves as any such declaration and shall be a binding obligation of and inure to the benefit of Zona Wyyerd and the City and their respective successors and assigns, if any. Any failure by Zona Wyyerd to indemnify the City as required under this Section 27 shall be considered a material breach of this License and Agreement. Notwithstanding anything to the contrary herein, Zona Wyyerd shall not be obligated to indemnify the City on any provision of this Agreement that is later determined to be invalid.

27.6 Insurance No Limit. The amount and type of insurance coverage requirements set forth in this Agreement will in no way be construed as limiting the scope of the indemnity in this Section 27.

27.7 Reformation. As a condition to Licensor's executing this Agreement, Zona Wyyerd specifically agrees that to the extent any provision of this paragraph is not fully enforceable against Zona Wyyerd for any reason whatsoever, this paragraph shall be deemed automatically reformed to the minimal extent necessary to cause it to be enforceable to the fullest extent permitted by law.

SECTION 28. Limitation of Liability

28.1 Limitation. The City and its officers, agents, elected or appointed officials, employees, departments, boards and commissions, shall not be liable to Zona Wyyerd or to its affiliates or customers for any interference with or disruption in the operations of Zona Wyyerd 's Fiber Optic Networks or the provision of services, or for any damages arising out of or materially related to Zona Wyyerd's use of the ROW, except to the extent of intentional misconduct or gross negligence on the part of the City its officers, agents, elected or appointed officials, employees, departments, boards and commissions.

28.2 No Liability for Agreement Enforcement. Zona Wyyerd also agrees that it shall have no recourse whatsoever against the City or its officials, boards, commissions, agents or employees for any loss, costs, expense or damages arising out of or materially related to any provision or requirement of the City because of the enforcement of this License and Agreement.

28.3 Assumption of Risk. Zona Wyyerd shall assume the risk of, and hereby relinquishes any claim against the City in connection with any final, non-appealable determination by a court of competent jurisdiction that the City lacked the current statutory authority under Arizona law to issue this License.

SECTION 29. Transferability of License and Agreement

29.1 Personal to Zona Wyyerd. This License is personal to Zona Wyyerd.

29.2 Transfer to Related Entity. Notwithstanding the foregoing, Zona Wyyerd may transfer or assign this Agreement to any affiliate entity under common corporate control, or to the surviving entity in the event of a merger or acquisition of Zona Wyyerd without City's prior consent. Zona Wyyerd shall however give notice to the City of any such transfer or assignment.

29.3 Transfer to Unrelated Entity. Any transfer or assignment for reasons other than provided for in Section 29.2 above shall require the City's prior consent, which shall not be unreasonably withheld, conditioned, or delayed provided that Zona Wyyerd agrees that it will provide reasonable documentation about the proposed transfer or assignment.

29.4 Transfer Conditions. In making a determination as to whether to approve a transfer or assignment, the City may consider the following:

29.4.1 The same information required on an original application for the License.

29.4.2 Whether Zona Wyyerd is in compliance with its License and Buckeye City Code and if not, the proposed transferee's commitment to cure such noncompliance.

29.4.3 Whether the proposed transfer or assignment would result in an evasion of other applicable provisions of law or impair lawful contracts.

29.4.4 The effect of the transfer or assignment on the City's interests.

29.5 Acceptance by Assignee. No application for a transfer of a license shall be granted unless the proposed transferee or assignee agrees in writing that it will abide by and accept all terms of the License and the Buckeye City Code and that it will assume all obligations, liabilities, and responsibility for all acts and omissions, known and unknown, of Zona Wyyerd under Chapter 31A of the Buckeye City Code and this License for all purposes, including renewal.

29.6 Approval not Waiver. Approval of the City of a transfer or assignment of this License does not constitute a waiver or release of any of the rights of the City, whether arising before or after the date of the transfer or assignment.

29.7 Transfer Remedies. When consent is required, any transfer without City's consent shall be void and shall not result in the transferee obtaining any rights or interests in, under or related to this License and Agreement. City may, in its sole discretion and in addition to all other lawful remedies available to City under this Agreement or otherwise, and in any combination, terminate this Agreement, collect any fees owed from Zona Wyyerd and/or declare the transfer to be void, all without prejudicing any other right or remedy of City under this Agreement. No cure or grace periods shall apply to transfers or assignments prohibited by this Agreement or to enforcement of any provision of this Agreement against an assignee who did not receive City's consent.

29.8 Transfer Fee. Zona Wyyerd shall pay to City in advance the sum of Three Thousand Five Hundred and 00/100 Dollars ($3,500) as a nonrefundable fee for legal, administrative and other expenses related to every transfer (other than the sale of publicly traded stock or transfer to any affiliate entity under common corporate control or to the surviving entity in the event of a merger or acquisition of Zona Wyyerd) or to any request for a consent to transfer, whether or not City grants such request.

SECTION 30. No Third Party Beneficiaries

No person or entity shall be a third party beneficiary to this Agreement or shall have any right or cause of action hereunder. City shall have no liability to third parties for any approval of plans, Zona Wyyerd's construction of improvements, Zona Wyyerd's negligence, Zona Wyyerd's failure to comply with the provisions of this Agreement (including any absence or inadequacy of insurance required to be carried by Zona Wyyerd), or otherwise as a result of the existence of this Agreement.

SECTION 31. Zona Wyyerd's Records

31.1 Recordkeeping. During the entire term of this License and Agreement, Zona Wyyerd shall keep records and provide information to City regarding the following:

31.1.1 The status of the construction, repair, location or relocation of Zona Wyyerd's Facilities.

31.1.2 Information relating to any Fiber Optic Networks on portions of the route that are not exempt from a fee imposed for occupation of the ROW.

31.1.3 Information relating to this License and Agreement and/or to City's or Zona Wyyerd's rights or obligations under this License and/or Agreement.

31.2 Record Form. Zona Wyyerd shall make available to City the requested reports or records in the formats in which they are customarily prepared by Zona Wyyerd.

31.3 Inspection. If necessary for the City to determine Zona Wyyerd's compliance with the terms of this License and Agreement or other applicable law, Zona Wyyerd shall provide relevant documentation as requested by the City and respond to questions in a format and time period to be decided by the Parties based on the nature of the request. Such records shall be available to City at Zona Wyyerd's offices in Maricopa County, Arizona or delivered electronically as may be appropriate. Zona Wyyerd shall also require its employees, agents, and accountants to give their cooperation and assistance in connection with City's access to such records.

31.3.1 Such documentation can include information on the type of services Zona Wyyerd is offering its customers (but not necessarily information disclosing any particular service being provided to a specific customer) and/or the financial information used in calculating any payments or taxes due to the City under this Agreement. If Zona Wyyerd determines that in order to respond to City's request for documentation, it must reasonably provide Proprietary Information, Zona Wyyerd shall so mark such documentation as "Confidential."

31.3.2 Proprietary Information disclosed by Zona Wyyerd to the City or its constituent departments shall be regarded as Proprietary as to third parties. If the City receives a request to disclose such information, the City shall notify Zona Wyyerd of such request and allow Zona Wyyerd a reasonable opportunity to defend its information from disclosure.

31.3.3 Information that is already in the public domain shall not be considered Proprietary Information. If public domain information is included with Proprietary Information on the same document, the City shall only disclose those portions within the public domain.

31.3.4 Notwithstanding any provision in this License, Zona Wyyerd acknowledges and understands that the City is subject to the disclosure requirements of Arizona's Public Records Law (A.R.S. § 39-121 et seq).

31.4 Reports. Upon request and subject to any necessary confidentiality requirements, Zona Wyyerd shall provide to City copies of any communications and reports submitted by Zona Wyyerd to the FCC or any other federal or state regulatory commission or agency having jurisdiction in respect to any matters directly affecting enforcement of this Agreement.

SECTION 32. Penalties for Violation of Terms

32.1 Cumulative Remedies. City may pursue any remedy at law, including but not limited to injunctive relief, civil trespass, and withholding other City permits and authorizations until Zona Wyyerd complies with the terms of the License, Agreement or the applicable law. Such remedies are cumulative and may be pursued in the alternative.

32.2 No Special Damages. Neither party will be liable under this Agreement for lost revenues or indirect, special, incidental, consequential, exemplary, or punitive damages, even if the party knew or should have known that such damages were possible and even if direct damages do not satisfy a remedy.

SECTION 33. Notice of Violation; Right to Cure or Respond

33.1 Notice of Violation. In the event that the City believes that Zona Wyyerd has not complied with the terms of this Agreement, the City shall informally discuss the matter with Zona Wyyerd. If these discussions do not lead to resolution of the issue, the City shall notify Zona Wyyerd in writing of the exact nature of the alleged non-compliance. Zona Wyyerd shall have thirty (30) days from receipt of the notice of violation:

33.1.1 To respond to the City, contesting the assertion of noncompliance;

33.1.2 to cure such default; or

33.1.3 if, by nature of default, such default cannot be cured within the thirty (30)-day period, initiate reasonable steps to remedy such default and notify the City of the steps

33.2 Cure and Liquidated Damages. Zona Wyyerd understands and agrees that failure to comply with any time and performance requirements in this Agreement or the requirements of the Buckeye City Code in instances in which any such non-compliance, and the ability to cure the same, are solely within the control of Zona Wyyerd, will result in damage to the City, and that it is and will be impracticable to determine the actual amount of such damage in the event of delay or nonperformance; therefore, the Parties hereby agree to the liquidated damages specified below for instances in which any such non-compliance, and the ability to cure the same, are solely within the control of Zona Wyyerd. The following amounts per day or part thereof may be chargeable to the security fund for the following concerns:

33.2.1 Each failure to properly restore the public ROW or to correct related violations of specifications, code ordinance or standards within fifteen (15) business days of having been notified by the City to correct such defects – Five Hundred Dollars ($500) per day. Such amount is in addition to any cost the City may incur to restore the ROW or correct the violation.

33.2.2 Each failure to make Zona Wyyerd's books and records available as required by this Agreement and such failure continues for fifteen (15) business days after receipt of notice of failure to provide from the City – Two Hundred Fifty Dollars ($250) per day.

33.2.3 Any unauthorized partial or total transfer of this Agreement – Four Thousand Dollars ($4,000) per transfer.

33.2.4 Each material instance of any action or non-action by Zona Wyyerd contrary to the terms of this Agreement that is not cured after thirty (30) days' notice – Five Hundred Dollars ($500) per day.

33.2.5 Failure to provide a valid Certificate of Insurance as required by Section 26.2.2 that is not cured after five (5) days' notice – Fifty Dollars ($50) per day.

33.3 Assessment. If the City Engineer concludes that Zona Wyyerd may be liable for liquidated damages, the City Engineer shall issue to Zona Wyyerd a Notice of Intention to Assess Liquidated Damages and allow Zona Wyyerd an opportunity to cure in the time period specified in Sections 33.2.1 through 33.2.5. The Notice shall set forth the nature of the violation and the amount of the proposed assessment. Zona Wyyerd shall pay the liquidated damage amount within ten (10) business days of receipt or the City shall deduct the amount from the security fund.

33.3.1 If, however, the liquidated damages exceed Five Thousand Dollars ($5,000), then the following shall apply:

33.3.2 Zona Wyyerd shall have thirty (30) days of receipt of such notice to pay the liquidated damage amount or give City notice contesting the assertion of noncompliance.

33.3.3 In the event that Zona Wyyerd contests the City's assertion of violation or fails to respond to the City's notice of intent to assess liquidated damages, City shall schedule a public hearing to determine whether the liquidated damages were properly assessed. City shall provide Zona Wyyerd with at least ten (10) business days' notice of such hearing, which shall specify the time, place and purpose of the hearing. At the hearing, Zona Wyyerd will be given the opportunity to be heard and present evidence. If the result of the hearing is that Zona Wyyerd is responsible for the liquidated damage amount, then the amount determined at the hearing will be due ten (10) days after the hearing decision is announced.

33.3.4 Zona Wyyerd may appeal the outcome of the hearing to an appropriate court. Such appeal to the appropriate court must be taken within sixty (60) days after the issuance of City's hearing decision. Otherwise, the outcome of the hearing shall be final and conclusive.

SECTION 34. Revocation/Termination

34.1 Early Termination. The License granted hereunder may be revoked and/or the Agreement terminated prior to its date of expiration by the City for the following reasons:

34.1.1 Zona Wyyerd fails to comply with the material terms and conditions of the Agreement or applicable law, including but not limited to failing to maintain any insurance, security fund, letter of credit, and/or a performance bond.

34.1.2 Zona Wyyerd fails to make payments in the amounts and at the time specified in this Agreement after a final determination that the payments were owed.

34.1.3 Zona Wyyerd ceases doing business in the City.

34.1.4 Zona Wyyerd fails to provide current, accurate as-built plans and maps showing the location of all Facilities installed or constructed in the City.

34.1.5 Zona Wyyerd is or becomes insolvent or is a party to a voluntary or involuntary bankruptcy, reorganization, or receivership case or proceeding, makes an assignment for the benefit of creditors, is subject to other actions by creditors that, in the reasonable, good faith opinion of the City, threaten the financial viability of Zona Wyyerd as a going concern, or if there is any similar action that affects Zona Wyyerd's capability to perform its obligations under this License and/or Agreement.

34.1.6 Zona Wyyerd fails to obtain or maintain any licenses, permits, or other governmental approvals pertaining to the ROW or timely pay any taxes pertaining to the ROW.

34.1.7 A court has issued an injunction that in any way prevents or restrains Zona Wyyerd's use of any portion of the ROW and remaining in force for a period of at least thirty (30) consecutive days.

34.2 Cure Period. Before terminating the Agreement under Sections 34.1.1, 34.1.2, 34.1.4, and 34.1.6, the City Manager or a designee, shall give prior written notice to Zona Wyyerd of the defect in performance and give Zona Wyyerd sixty (60) days within which to cure the defect in performance. If, by nature of the default, such default cannot be cured within the 60-day period, Zona Wyyerd shall have additional time as may be necessary to perform or comply as long as Zona Wyyerd commences performance or compliance within such 60-day period and diligently proceed to cure such defect in performance; provided, however, that such defect shall be cured within 90 days, unless otherwise agreed to by the parties in writing.

34.3 Misconduct. The City need not provide a sixty (60) day cure period prior to termination if the City finds that the defect in performance under the Agreement is due to intentional misconduct, is a violation of criminal law, or is a part of a pattern of repeated and persistent violations where Zona Wyyerd has already had notice and opportunity to cure.

34.4 Manager Authority. The City Manager has the authority to terminate, subject to Zona Wyyerd's right to notice and cure where provided, this License and/or Agreement.

34.5 Hearing Prior to Revocation of License. Prior to the revocation or refusal to renew the License, the City will hold a hearing if requested by Zona Wyyerd.

34.6 Termination by Mutual Agreement. This License and/or Agreement may be terminated prior to its date of expiration by Zona Wyyerd by providing the City with ninety (90) days written notice and only upon making arrangements satisfactory with the City Engineer to remove all Zona Wyyerd's Facilities from public property and the ROW, unless the City Engineer agrees in writing to allow Zona Wyyerd to abandon part or all of its Facilities in place. If the City Engineer agrees to allow Zona Wyyerd to abandon its Facilities in place, the ownership of such Facilities, including everything permitted by City to be abandoned in place, shall transfer to City and Zona Wyyerd shall cooperate to execute any documents necessary to accomplish such transfer within thirty (30) days of such allowance of abandonment.

34.7 Equipment Removal. Notwithstanding anything in Section 34.6 above, upon termination of this Agreement, Zona Wyyerd shall remove all of its optical repeaters, DWDM and CWDM multiplexers, and related equipment within ninety (90) days.

SECTION 35. Non-use/Abandonment of the Facilities

35.1 Removal or Abandonment. An "Abandoned Facility" will mean a Facility no longer in service or physically disconnected from a portion of the operating Facility or from any other Facility that is in use or still carries service. If Zona Wyyerd ceases to provide services or abandons use of any of its Facilities, upon cancellation or termination of the Agreement, Zona Wyyerd shall notify the City and may, subject to the City's approval, permanently abandon the Facilities in place. In such event, the City, at its option, may acquire ownership of the Facilities. In lieu of permanent abandonment, the City may require Zona Wyyerd, to the reasonable satisfaction of the City and without cost or expense to the City, to promptly remove the Facilities and to restore the public property and ROW to a reasonable condition under the supervision of the City.

35.2 City Property. Upon permanent abandonment, if the City does not require removal, Zona Wyyerd shall submit to the City a proposal and instruments for transferring ownership to the City. Any such Facilities, which are not removed as required by the City within ninety (90) days of either such date of termination or cancellation or of the date the City issued a permit authorizing removal, whichever is later, automatically shall become the property of the City. Zona Wyyerd will notify the Arizona Blue Stake Center to record the Facilities that have been abandoned.

35.3 Title to Property. Title to any and all personal property installed by Zona Wyyerd upon the ROW that is not removed during the period set forth in Section 35.2 shall automatically vest in City.

35.4 Ongoing Use. Nothing in Section 35.1 shall be deemed to require Zona Wyyerd to remove Facilities that the Zona Wyyerd uses for the provision of services other than Telecommunications Services or Interstate Telecommunications Services, so long as such use of Facilities for the provisions of the ongoing other services is authorized by the City pursuant to this Agreement.

SECTION 36. Cancellation for Conflict of Interest

Pursuant to A.R.S. § 38-511, City may cancel this Agreement within three (3) years after its execution without penalty or further obligation if any person significantly involved in initiating, negotiating, securing, drafting or creating this Agreement is, at any time while the Agreement or an extension of the Agreement is in effect, an employee or agent of any other party to this Agreement in any capacity or a consultant to any other party of this Agreement with respect to the subject matter of the Agreement. The cancellation shall be effective when Zona Wyyerd receives written notice of the cancellation, unless the notice specifies a later time.

SECTION 37. Gratuities

City may, by written notice, terminate this Agreement, in whole or in part, if City determines that employment or a gratuity was offered or made by Zona Wyyerd or a representative of Zona Wyyerd to any officer or employee of City for the purpose of influencing the outcome of the procurement or securing the Agreement, an amendment to the Agreement, or favorable treatment concerning the Agreement, including the making of any determination or decision about Agreement performance. City, in addition to any other rights or remedies, shall be entitled to recover exemplary damages in the amount of three times the value of the gratuity offered by Zona Wyyerd.

SECTION 38. Condemnation

38.1 Generally. The following shall govern any condemnation of any part of or interest in the area used and/or occupied by Zona Wyyerd and any conveyance to City or another condemnor in avoidance or settlement of condemnation or a threat of condemnation:

38.1.1 Termination for Condemnation. This agreement shall terminate as to the portion taken on the date that is the earlier of the date title vests in the condemnor, or the date upon which the condemnor is let into possession.

38.1.2 Power to Condemn. Zona Wyyerd acknowledges that City and others from time to time may sue and exercise its power to condemn the area used by Zona Wyyerd or any interest therein or rights thereto.

38.1.2.1 City reserves the right of condemnation or eminent domain over the area used and/or occupied by Zona Wyyerd. City does not warrant that it will

not condemn the area(s) used and/or occupied by Zona Wyyerd during the term of this Agreement, but City does not presently have intentions to condemn such area(s).

38.1.2.2 City also reserves the right through its powers of eminent domain to acquire all or any portion of the Facilities owned by Zona Wyyerd in accordance with the applicable conditions set forth in the Arizona Revised Statutes. However, under no circumstances shall any valuation be made for any right or privilege granted by this Agreement should the City acquire the property of Zona Wyyerd.

SECTION 39. Notice

39.1 All notices, which shall or may be given pursuant to this Agreement, shall be in writing and transmitted through the U.S. certified or registered mail, postage prepaid, by means of prepaid private delivery systems, or by email transmission showing a valid delivery receipt if a hard copy of the same is followed by delivery through the U.S. mail or by private delivery systems, addressed as follows:

CITY OF BUCKEYE:
City of Buckeye
Attention: City Manager
530 East Monroe Avenue
Buckeye, Arizona 85326
Phone: (623) 349-6910

With copy to:
Gust Rosenfeld, PLC
Attention: Shiela B. Schmidt, Esq.
City Attorney
One East Washington, Suite 1600
Phoenix, Arizona 85004

ZONA WYYERD:
Zona Wyyerd
Scott Beer, General Counsel
5600 Arapaho Ave., Suite 200
Boulder, Colorado 80303

Invoices to:
Zona Wyyerd
Attention: Tim Gentry
5600 Arapaho Ave., Suite 200
Boulder, Colorado 80303

39.2 Notices shall be deemed sufficiently given and served upon the other party if delivered personally or by email transmission (provided with respect to email that such transmissions are received on a business day during normal business hours), the first business day after deposit if sent by private delivery systems and the fifth business day after deposit in U.S. Mail.

39.3 Either party may from time to time designate any other address for this purpose by written notice to the other party in the manner set forth above.

39.4 Zona Wyyerd shall notify the City within ten (10) business days of any change in mailing address.

SECTION 40. Governing Law

It is mutually understood and agreed that this Agreement shall be governed by the laws of the State of Arizona, both as to interpretation and performance. Any action at law, suit in equity, or judicial proceeding for the enforcement of this Agreement or any provision thereof shall be instituted only in the federal or state courts located within Maricopa County, Arizona.

SECTION 41. Competitive Neutrality

The Parties understand and agree that the City's administration of its Public Highways and the use of them by providers of telecommunications services must be administered on a competitively neutral and nondiscriminatory basis. Accordingly, the terms of any agreement with other similarly situated providers shall, taken as a whole, be competitively neutral and nondiscriminatory when compared to this Agreement.

SECTION 42. Partial Invalidity

If any section, paragraph, subdivision, clause, phrase or provision of this Agreement shall be adjudged invalid or unenforceable, or is preempted by federal or state laws or regulations, the same shall not affect the validity of this Agreement as a whole or any part of the provisions of this Agreement other than the part adjudged to be invalid, unenforceable or preempted.

SECTION 43. No Warranty

43.1 As to License. The issuance of a license, permit or other authorization by the City is not a representation or warranty that such license, permit, or authorization is a legally sufficient substitute for a franchise, and is not a representation of warranty that a franchise is not required.

43.2 As to ROW. ZONA WYYERD ACKNOWLEDGES AND AGREES THAT CITY DOES NOT WARRANT THE CONDITION OR SAFETY OF ITS ROW OR THE PREMISES SURROUNDING THE SAME, AND ZONA WYYERD HEREBY ASSUMES ALL RISKS OF ANY DAMAGE, INJURY OR LOSS OF ANY NATURE WHATSOEVER CAUSED BY OR IN CONNECTION WITH THE USE OF ANY CITY ROW.

SECTION 44. Non-Waiver

Neither party shall be excused from complying with any of the terms and conditions of this Agreement by any failure of the other party upon any one or more occasions to insist upon or to seek compliance with any such terms or conditions.

SECTION 45. Remedies Not Exclusive

The remedies set forth in this License and Agreement are not exclusive. Election of one remedy does not preclude the use of other remedies.

SECTION 46. Force Majeure

With respect to any provision of this Agreement, the violation or non-compliance of which could result in the imposition of a financial penalty, liquidated damages, forfeiture or other sanction upon Zona Wyyerd, such violation or non-compliance shall be excused where such violation or non-

compliance is the result of acts of God, war, civil disturbance, strike or other labor unrest, or other events, the occurrence of which was not reasonably foreseeable by Zona Wyyerd and is beyond its reasonable control.

SECTION 47. Dispute Resolution

In the event of a dispute between the Parties to this Agreement regarding a provision of this Agreement, a Party's performance of its obligations as stated in this Agreement or any other matter governed by the terms of this Agreement, the Parties will meet in good faith to attempt to resolve the dispute. If the Parties fail to resolve the dispute, then the Parties agree that the dispute may be resolved through mediation. If mediation is agreed to by the disputing Parties, the disputing Parties shall mutually agree upon the services of one (1) mediator whose fees and expenses shall be borne equally by the disputing Parties. If the dispute is not resolved within a reasonable time, the disputing Parties shall be free to use other remedies such as litigation to resolve the dispute.

SECTION 48. Exhibits

All Exhibits referred to in this Agreement and any addenda, attachments, and schedules which may, from time to time, be referred to in any duly executed amendment to this Agreement are by such reference incorporated in this Agreement and shall be deemed a part of this Agreement.

SECTION 49. Survival of Liability

All obligations of Zona Wyyerd and City hereunder and all warranties and indemnities of Zona Wyyerd hereunder shall survive termination of this Agreement.

SECTION 50. Complete Agreement

This Agreement, including any Exhibits which are attached, are hereby incorporated into this Agreement and all of which constitutes the entire agreement between the Parties with respect to the subject matter hereof and supersedes any and all prior or contemporaneous agreements whether written or oral.

SECTION 51. Modification or Amendment

This Agreement cannot be modified or amended except in writing signed by both Parties.

[Signatures on following page]

This Agreement executed this 17th day of August, 2021.

City of Buckeye
An Arizona Municipal Corporation

_____
Roger Klingler, City Manager

ATTEST:

_____
Lucinda Aja, City Clerk

APPROVED AS TO FORM:

_____
Shiela Schmidt, City Attorney

Accipiter Communications, Inc. dba Zona Wyyerd, a Nevada corporation

By: _____

Title: VP Finance

Wyyerd Connect, LLC dba Zona Wyyerd Network Services, a Delaware limited liability company

By: _____

Title: VP Finance

Exhibit A – Map
Exhibit B – Insurance Certificate

EXHIBIT A

Map of Use Areas

The map contained within this Exhibit is considered confidential and proprietary by Zona Wyyerd. The map will be kept on file in the appropriate City office and will be released publicly only pursuant to Section 31 of this Agreement.

EXHIBIT B

Insurance Certificate

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 7/20/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Telcom Insurance Services Corp. 6301 Ivy Lane, Suite 506 Greenbelt, MD 20770 www.TelcomInsGrp.com	**CONTACT NAME:** Telcom Insurance Services Corp. **PHONE (A/C, No, Ext):** 800.222.4664 **FAX (A/C, No):** 301.474.6196 **E-MAIL ADDRESS:**
	INSURER(S) AFFORDING COVERAGE / **NAIC #** **INSURER A :** Great American Insurance Co of New York / 22136 **INSURER B :** **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**
INSURED Accipiter Communications Inc. dba Zona Communications 14723 W Grand Avenue Suite 102 Surprise AZ 85374	

COVERAGES **CERTIFICATE NUMBER:** 62955793 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	✓ **COMMERCIAL GENERAL LIABILITY** ☐ CLAIMS-MADE ✓ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PRO-JECT ☐ LOC ☐ OTHER:	✓		MAC 3-86-79-18	3/31/2021	8/28/2021	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$ 1,000,000 $ 100,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 $
A	**AUTOMOBILE LIABILITY** ✓ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ✓ HIRED AUTOS ONLY ✓ NON-OWNED AUTOS ONLY	✓		CAP E-69-61-49	3/31/2021	8/28/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) $	$ 1,000,000 $ $ $ $
A	☐ **UMBRELLA LIAB** ✓ OCCUR ✓ **EXCESS LIAB** ☐ CLAIMS-MADE ☐ DED ☐ RETENTION $	✓		EXC 3-86-79-19	3/31/2021	8/28/2021	EACH OCCURRENCE AGGREGATE $	$ 5,000,000 $ 5,000,000 $
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A					☐ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ $ $

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

The City of Buckeye is an additional insured as respects General Liability when required by written contract or agreement. Coverage applies for premises and ongoing operations as well as completed operations.

CERTIFICATE HOLDER

City of Buckeye
Attn: Risk Manager
530 East Monroe Avenue
Buckeye AZ 85326

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Peter J. Elliott

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 7/20/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Telcom Insurance Services Corp. 6301 Ivy Lane, Suite 506 Greenbelt, MD 20770 www.TelcomInsGrp.com	**CONTACT NAME:** Telcom Insurance Services Corp. **PHONE (A/C, No, Ext):** 800.222.4664 **FAX (A/C, No):** 301.474.6196 **E-MAIL ADDRESS:**
INSURED Wyverd Group Holdings LLC Wyverd Group, LLC; Wyverd Connect LLC 5600 Arapahoe Ave, Suite 200 Boulder CO 80303	**INSURER(S) AFFORDING COVERAGE** / **NAIC #** **INSURER A :** Great American Insurance Co of New York 22136 **INSURER B :** **INSURER C :** **INSURER D :** **INSURER E :** **INSURER F :**

COVERAGES **CERTIFICATE NUMBER:** 62970664 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	✓ **COMMERCIAL GENERAL LIABILITY** ☐ CLAIMS-MADE ✓ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ✓ POLICY ☐ PRO-JECT ☐ LOC OTHER:	✓		MAC 3218501	8/28/2020	8/28/2021	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	$ 1,000,000 $ 100,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 1,000,000
A	**AUTOMOBILE LIABILITY** ANY AUTO OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ✓ HIRED AUTOS ONLY ✓ NON-OWNED AUTOS ONLY	✓		MAC 3218501	8/28/2020	8/28/2021	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000 $ $ $
A	☐ **UMBRELLA LIAB** ✓ OCCUR ✓ **EXCESS LIAB** ☐ CLAIMS-MADE ☐ DED ☐ RETENTION $ N/A	✓		EXC 3218502	8/28/2020	8/28/2021	EACH OCCURRENCE AGGREGATE	$ 8,000,000 $ 8,000,000
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N ANYPROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ **(Mandatory in NH)** If yes, describe under DESCRIPTION OF OPERATIONS below	N / A					☐ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ $ $
A	Website Publishing Liability Security Breach Liability			MAC 3218501 MAC 3218501	8/28/2020 8/28/2020	8/28/2021 8/28/2021	$100,000 $100,000	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate holder is an additional insured as respects to liability coverage, as required by written contract.

Note: Umbrella coverage provides additional limits of insurance to the general and auto liability limits to meet contract limit requirements.

CERTIFICATE HOLDER

City of Buckeye
Attn: Risk Manager
530 East Monroe Avenue
Buckeye AZ 85326

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Peter J. Elliott

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CG 83 56 (Ed. 05 14)

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

TELCOM - BLANKET ADDITIONAL INSURED ENDORSEMENT

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

A. The following is added to **SECTION II - WHO IS AN INSURED**.

1. Any person or organization for whom you have agreed in writing to provide **Commercial General Liability Coverage**, but only with respect to liability arising out of your operations or premises owned by or rented to you, for:

a. "occurrences" taking place after you have made such an agreement in writing; or

b. "personal and advertising injury" caused by an offense committed after you have made such an agreement in writing.

However:

1. the insurance afforded to such additional insured only applies to the extent permitted by law; and

2. if coverage provided to the Additional Insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

B. With respect to the insurance afforded to these Additional Insureds, the following is added to **SECTION III - LIMITS OF INSURANCE**:

If coverage provided to the Additional Insured is required by a contract or agreement, the most we will pay on behalf of the Additional Insured is the amount of insurance:

1. required by the contract or agreement; or

2. available under the applicable Limits of Insurance shown in the Declarations; whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

This insurance does not apply to any person or organization for whom you have secured separate liability insurance, while such separate insurance is in effect, regardless of whether the scope of coverage or applicable Limits of Insurance of this Policy exceed those of such separate insurance and regardless of whether such separate insurance is valid and collectible.

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.V. PLZS-21-00116 Minor Subdivision for Juan & Irma Escobar
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 3
STAFF LIAISON: Patricia Cooley, Planner I, pcooley@buckeyeaz.gov, (623)349-6233	
DEPARTMENT: Development Services	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on a minor subdivision for Juan and Irma Escobar, generally located southeast of South Rainbow Road and West Lower Buckeye Road.

RELEVANT GOALS:
GOAL 3: A Well-Planned Urban Community

ADDITIONAL RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

SUMMARY

PROJECT DESCRIPTION:
The applicant has requested approval of a minor subdivision of parcel 504-21-862 consisting of approximately 2.8-acres. The project is located southeast of South Rainbow Road and West Lower Buckeye Road. The property includes two (2) residential lots in the Rural Residential zoning district. A total of 0.349 acres of right-of-way are being dedicated to the City of Buckeye through this minor subdivision. The proposal is substantially consistent with the existing development in the area, the zoning district standards, and the general plan land use designation. Planning, Engineering, Fire, and Public Works have all approved this minor subdivision. Due to the number of parcels resulting from this subdivision, an Assured Water Supply certificate is not required from ADWR, per A.R.S. 9-463.01.I.

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
NARRATIVE.pdf
MINOR SUBDIVISION.pdf
Vicinity Map.pdf

PLZS 21 00116
2nd Submittal

RECEIVED

JUN 24 2021

CITY OF BUCKEYE by:
PC

Project Narrative

We have 2.58 acres of land on 22400 W lower buckeye rd Buckeye, Az 85326 (parcel # 504-21-862) and are looking to split it into 2 lots. We are planning on building a house to live in on one of the lots. For the second lot we will probably sell it, leave it empty for a while or build another house later on.

Juan Escobar

Minor Subdivision for Juan & Irma Escobar

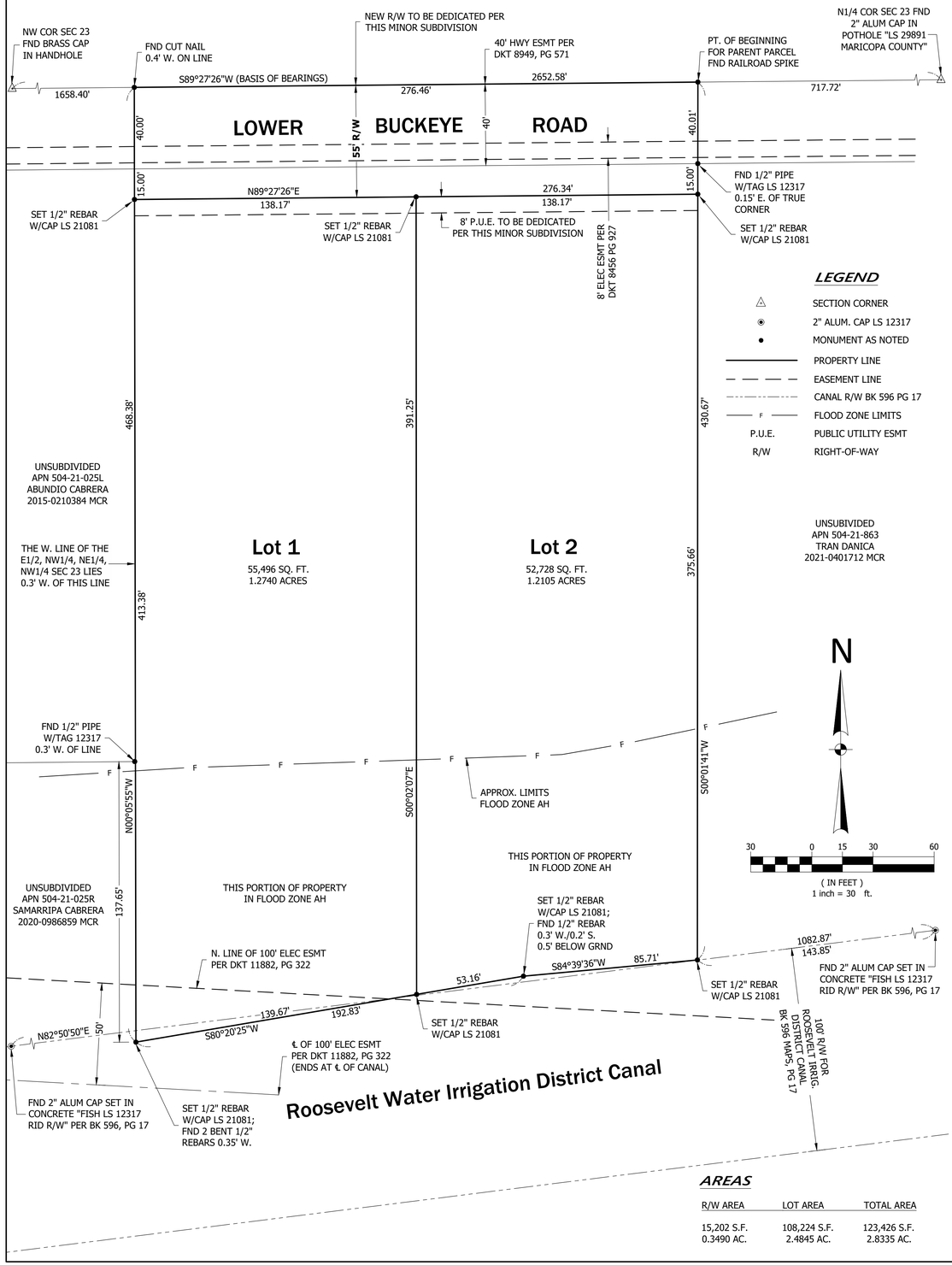
A PORTION OF THE NORTHWEST QUARTER OF SECTION 23 T1N, R3W, G.& S.R.B.M., MARICOPA COUNTY, ARIZONA

OWNERS

Juan & Irma Escobar
1502 S. 234th Lane
Buckeye, AZ 85326

ZONING

This property is zoned RR by the City of Buckeye.



LEGEND

△	SECTION CORNER
◉	2" ALUM. CAP LS 12317
●	MONUMENT AS NOTED
———	PROPERTY LINE
– – –	EASEMENT LINE
——·——·——	CANAL R/W BK 596 PG 17
—— F ——	FLOOD ZONE LIMITS
P.U.E.	PUBLIC UTILITY ESMT
R/W	RIGHT-OF-WAY

AREAS

R/W AREA	LOT AREA	TOTAL AREA
15,202 S.F.	108,224 S.F.	123,426 S.F.
0.3490 AC.	2.4845 AC.	2.8335 AC.

LEGAL DESCRIPTIONS

Parent Parcel: (APN: 504-21-862)

A portion of the East half of the Northwest quarter of the Northeast quarter of the Northwest quarter of Section 23, Township 1 North, Range 3 West, of the Gila and Salt River Base and Meridian, Maricopa County, Arizona, lying North of Roosevelt Irrigation District Canal, Northerly right of way line described as follows:

Commencing at the North quarter corner of Section 23, Township 1 North, Range 3 West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona;
Thence South 89° 27' 26" West, a distance of 717.72 feet along the North line of said Northwest quarter of Section 23 to the **TRUE POINT OF BEGINNING**;
Thence continuing West along said line, a distance of 276.46 feet;
Thence South 0° 05' 55" East, a distance of 468.38 feet to the North right of way line of said Roosevelt Irrigation District Canal;
Thence North 80° 20' 25" East, a distance of 192.83 feet along said North right of way line;
Thence North 84° 39' 36" East, a distance of 85.71 feet along said North Right of Way line;
Thence North 0° 01' 41" East, a distance of 430.67 feet along a line 55 feet West of and parallel with the East line of said West half of the Northwest quarter of the Northeast quarter of the Northwest quarter of Section 23 to the **POINT OF BEGINNING**;
EXCEPT the North 40 feet of existing roadway.

Lot 1:

A portion of the East half of the Northwest quarter of the Northeast quarter of the Northwest quarter of Section 23, Township 1 North, Range 3 West, of the Gila and Salt River Base and Meridian, Maricopa County, Arizona, lying North of Roosevelt Irrigation District Canal, Northerly right of way line, described as follows:

Commencing at the North quarter corner of said Section 23;
Thence South 89° 27' 26" West (Basis of Bearings) along the North line of the Northwest quarter of Section 23 a distance of 994.18 feet;
Thence South 00° 05' 55" East a distance of 55.00 to the South line of the North 55.00 feet of the Northwest quarter of Section 23 and the **POINT OF BEGINNING**;
Thence North 89° 27' 26" East along said South line a distance of 138.14 feet;
Thence South 00° 02' 07" East a distance of 406.25 feet to the northerly right-of-way line of the Roosevelt Irrigation District Canal as described in Warranty Deed recorded in Document No. 2021-0307824, Official Records;
Thence South 80° 20' 25" West along said right-of-way line a distance of 139.67 feet;
Thence North 00° 05' 55" West a distance of 413.38 feet to the **POINT OF BEGINNING**.

Lot 2:

A portion of the East half of the Northwest quarter of the Northeast quarter of the Northwest quarter of Section 23, Township 1 North, Range 3 West, of the Gila and Salt River Base and Meridian, Maricopa County, Arizona, lying North of Roosevelt Irrigation District Canal, Northerly right of way line, described as follows:

Commencing at the North quarter corner of said Section 23;
Thence South 89° 27' 26" West (Basis of Bearings) along the North line of the Northwest quarter of Section 23 a distance of 717.72 feet;
Thence South 00° 01' 41" West a distance of 55.00 to the **POINT OF BEGINNING**;
Thence continuing South 00° 01' 41" West a distance of 375.66 feet to the northerly right-of-way line of the Roosevelt Irrigation District Canal as described in Warranty Deed recorded in Document No. 2021-0307824, Official Records;
Thence South 84° 39' 36" West along said right-of-way line a distance of 85.71 feet;
Thence South 80° 20' 25" West along said right-of-way line a distance of 53.16 feet;
Thence North 00° 02' 07" West a distance of 391.25 feet to the South line of the North 55.00 feet of the Northwest quarter of Section 23;
Thence North 89° 27' 26" East along said South line a distance of 138.14 feet to the **POINT OF BEGINNING.**

FLOOD ZONE DESIGNATION

The property is located within an area designated as having Flood Zones AH and X-Shaded by the Federal Emergency Management Agency, on Flood Insurance Rate Map No. 04013C2120L, with a revision date of October 16, 2013 for Community No. 040039 in the City of Buckeye, County of Maricopa, State of Arizona, which is the current Flood Insurance Rate Map for the community in which said property is situated.

BASIS OF BEARINGS

The Basis of Bearings shown hereon is the North line of the Northwest quarter of Section 23, T1N, R3W, being South 89° 27' 26" West as taken from the Parent Parcel legal description.

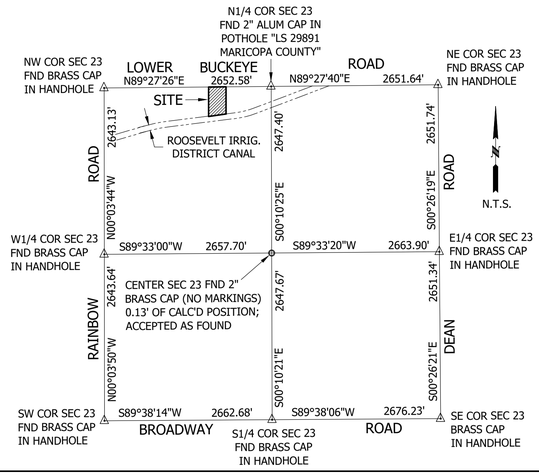
CERTIFICATION

I, Thomas L. Rope, hereby certify that I am a Registered Land Surveyor in the State of Arizona; That this plat consisting of 1 sheet correctly represents a boundary survey made by me during the month of April 2021; That the survey is true and complete as shown; That all monuments shown actually exist or will be set as shown within one year of recordation; That their positions are correctly shown and that said monuments are sufficient to enable the survey to be retraced.

Arizona Registerd Land Surveyor #21081

VICINITY MAP

SECTION 23, T1N, R3W



REGISTERED LAND SURVEYOR
CERTIFICATE NO.
21081
THOMAS L.
ROPE
6/21/2021
Date Signed
ARIZONA, U.S.A.

Expires 3/21/2022

DEDICATION

Know all persons by these presents:

That Juan and Irma Escobar, owner, has Subdivided under the name "Minor Subdivision for Juan & Irma Escobar" a Subdivision located in a portion of Northwest quarter of Section 23, Township 1 North, Range 3 West, Gila and Salt River Base and Meridian, Maricopa County, Arizona and Salt River Base and Meridian, Maricopa County, Arizona as shown and platted hereon and does hereby publish this plat as and for the plat of "Minor Subdivision for Juan & Irma Escobar" and declares that this plat sets forth the location and gives the dimensions of each Lot, street and easement constituting same, and that each Lot, street, and easement shall be known by the number or name given to each respectively as shown on this plat.

Owner hereby dedicates to the City of Buckeye fee title to all public right-of-ways as shown on the plat.

Owner hereby grants to the City of Buckeye a non-exclusive easement over, upon and across the areas designated as public utility easement as shown on the plat for the purpose of installing, constructing, maintaining, repairing, replacing and utilizing public utilities. The easement granted within this dedication are permanent and perpetual and shall run with the land and be binding upon owner and its heirs, assigns, and successors in Interest to this plat or any parcel or lot thereof.

ACKNOWLEDGEMENT

In witness whereof, Owner has hereunto caused his name to be signed this _____ day of _____, 2021.

Owner:_____
Juan Fernando Escobar

STATE OF ARIZONA)
)ss
COUNTY OF MARICOPA)

On this, the _____ day of _____, 2021, before me the undersigned, Juan Fernando Escobar, appeared and acknowledged himself to be the Owner, and that he, as such Owner, being duly authorized to do so, executed the foregoing instrument for the purposes therein contained by signing in his name.

In witness whereof, I hereunto set my hand and official seal.

Notary Public _____

My Commission Expires _____

ACKNOWLEDGEMENT

In witness whereof, Owner has hereunto caused her name to be signed this _____ day of _____, 2021.

Owner:_____
Irma C. Leon de Escobar

STATE OF ARIZONA)
)ss
COUNTY OF MARICOPA)

On this, the _____ day of _____, 2021, before me the undersigned, Irma C. Leon de Escobar, appeared and acknowledged herself to be the Owner, and that she, as such Owner, being duly authorized to do so, executed the foregoing instrument for the purposes therein contained by signing in her name.

In witness whereof, I hereunto set my hand and official seal.

Notary Public _____

My Commission Expires _____

APPROVAL

Approved by the Council of the City of Buckeye on this _____ day of _____, 2021.

By:_____
Mayor

Attest:_____
City Clerk

I certify that all engineering conditions and requirements have been complied with:

By:_____
Buckeye City Engineer Date

By:_____
Development Services Director Date

PLZS 21 00116
2nd Submittal
RECEIVED
JUN 24 2021
CITY OF BUCKEYE by: PC

NOTES

1. This survey wasbased upon a Commitment for Title prepared by Pioneer Title Agency, Inc., File No. 77602694-076-TOD dated March 9, 2021
2. This property subject to the following Schedule B Exceptions:
   a) Electric line easement per Docket 8456, Page 927; Docket 11882, Page 322.
   b) Highway easement per Docket 8949, Page 571.
   c) Matters shown of Survey per Book 596 of Maps, Page 17.
   d) The interest of the United States of America and of the Salt River Project (collectively Salt River Valley Water Users Association and Salt River Project Agricultural Improvement and Power District), if any, in and to that portion of the property lying within 50 feet of the high water mark of the Roosevelt Irrigation District Canal.
3. The property owners, or any subsequent owners, shall not proceed with any site grading or excavation without first obtaining a permit from the City of Buckeye.
4. In accordance with A.R.S. § 9-461.07, the City of Buckeye has determined that all dedications occuring with this plat are in conformance with the General Plan.
5. Pursuant to A.R.S. § 42-11102, the City of Buckeye, a political subdivision of the State of Arizona, is exempt from all taxes and assessments based on assessed value except for Special Districts #14751 and #14710, when applicable.
6. © Copyright 2021. These drawings are an instrument of service and are the property of Land Survey Services. No reproduction or use of design concepts are allowed without written permission of Land Survey Services. Any violation of this copyright shall be subject to legal action.

PLZS-21-00116

Drawn By:	Thomas Rope
Date:	APRIL 2021
Job No.:	21042
Sheet No.:	1 of 1

Land Survey Services PLC
20651 W. Pasadena Avenue
Buckeye, AZ 85396-1255
Phone No. 602.703.7010
LandSurveyServices@cox.net

VICINITY MAP



1000 0 500 1000 2000

(IN FEET)
1 inch = 1000ft.

1389

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.W. PLZS-21-00109 Sun City Festival Parcel HH1-4 Final Plat
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 4
STAFF LIAISON: Robert Busick, Planner II, rbusick@buckeyeaz.gov, (623) 349-6242	
DEPARTMENT: Development Services	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on a final plat for Sun City Festival Parcel HH1-4, generally located northeast of the intersection of Beardsley Parkway and Desert Oasis Boulevard.

RELEVANT GOALS:
GOAL 3: A Well-Planned Urban Community

ADDITIONAL RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

SUMMARY

PROJECT DESCRIPTION:
The applicant has requested approval of a final plat of Parcel HH1-4 of Sun City Festival. The 26.15-acre plat is located northeast of Beardsley Parkway and Desert Oasis Boulevard. It includes 114 single-family residential lots with an overall gross density of 4.35 du/ac. There are two minimum lot sizes proposed throughout the final plat area: 46'x115' lots and 52'x115' lots. 7.01 acres (26.8%) of landscaped open space, parks, recreation areas, and trails are planned in Parcel HH1-4. Additional recreational amenities are located in the adjacent units of Sun City Festival. Approximately 4.26 acres of right-of-way are being dedicated to the City of Buckeye through this final plat. The proposal is substantially consistent with the existing development in the area, the preliminary plat approved 12/8/2020 and still valid, the community master plan, and the planning unit plan. Planning, Engineering, Fire, Community Services, and Public Works have all approved this plat. The applicant has obtained an Assured Water Supply certificate from ADWR, per A.R.S. 9-463.01.I.

BENEFITS:
The approval of this plat will allow continued development of traditional single-family residences within Sun City Festival.

FUTURE ACTION:
None

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
Vicinity Map
Narrative

Final Plat
Certificate of Assured Water Supply

Vicinity Map



2nd Submittal

PLZS-21-00109

RECEIVED

JUN 30 2021

CITY OF BUCKEYE by:
WD

SUN CITY FESTIVAL
PARCEL HH1-4
FINAL PLAT NARRATIVE

June 22, 2021

Prepared for:

16767 North Perimeter Drive, Suite 100
Scottsdale, Arizona 85260
(480) 391-6000

Prepared by:

19621 N 23rd Drive, Suite 150
Phoenix, AZ 85027
(602) 977-8075

Cardno Project No. 4151093000

Application Request

This application requests the approval of a Final Plat for Sun City Festival Parcel HH1-4, a portion of the Festival Ranch Master Plan. The final plat for Sun City Festival Parcel HH1-4 contains 26.15 acres (gross) and 114 lots. The preliminary plat for Parcel HH1-4 was approved on December 8th, 2020.

Introduction

The Festival Ranch Community Master Plan (CMP) is comprised of approximately 10,105 acres. The property is located in the northern portion of the City of Buckeye. It is bounded on the west by the Hassayampa River and by State Lands on the north and east. The south edge of the property is partially bisected by the Sun Valley Parkway and is bounded by a small portion of the White Tank Mountains, State Lands, and private landowners.

The original Festival Ranch CMP consisted of six Planning Units, identified as Planning Units A through F. Portions of the original Planning Units E and F are presently identified as Planning Unit One and Planning Area 2 of the Sun City Festival Development. This final plat is a portion of Sun City Festival Planning Unit 1.

Within Sun City Festival, there are numerous parcels identified with residential, recreation, retail, mixed use, worship and school designations. This final plat submittal includes Parcel HH1-4 of Planning Unit 1. This parcel will be developed as detached, single-family residential parcels with an overall gross density of 4.35 du/ac. The remaining parcels within Planning Unit 1 will be subsequently submitted, under separate submittal packages, as they are developed per the City of Buckeye requirements.

Location

This final plat consists of portions of Section 23 of Township 4 North, Range 4 West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona. The site is located within the City of Buckeye north of Sun Valley Parkway, and west of Desert Vista Boulevard.

Zoning

The property is zoned Planned Community per the Festival Ranch CMP as approved by City Council in September of 2000.

Proposed Development

The portion of Sun City Festival Planning Unit 1 covered in this Final Plat will be developed in one phase identified as Sun City Festival Parcel HH1-4.

As previously mentioned, the proposed HH1-4 Final Plat boundary is covered within the Preliminary Plat for Sun City Festival HH1-3, 4, and 5 which was approved on December 8th, 2020. The following is the proposed HH1-4 Final Plat lot breakdown per the associated preliminary plat:

- Sun City Festival Parcel HH1-4 Final Plat Lots 1-114
  (107 - 46’ x 115’ lots)
  (7 - 52’ x 115’ lots)

Sun City Festival Parcel HH1-4 is planned to be developed as detached, single family residential parcels with three typical residential lot widths of 46-feet and 52-feet. All lots will have a minimum depth of 115 feet. The gross density of the Parcel HH1-4 is 4.35 du/ac.

The gross area of the Sun City Festival Parcel HH1-4 Final Plat is 26.15 acres. The HH1-4 Final Plat open space total acreage is 7.01 acres, which represents 26.8% distribution of the gross area.

Street Improvements

Parcel HH1-4 circulation is provided by Covey Lane which connects to Desert Oasis Boulevard to the west and Desert Vista Boulevard to the east. Two local street connections are also being constructed within Parcel HH1-3. All residential streets have a 44-foot right of way and will be 32 ft wide from back-of-curb to back-of-curb. All local streets shall conform to the street sections provided in the Festival Ranch CMP as approved by City Council in September of 2000.

Utilities

There is one existing sewer main within the proposed parcel. The 15" sewer main is located in the north portion of Parcel HH1-4 along the Melinda Lane alignment. Parcel HH1-4 will connect to this existing sewer line.

Parcel HH1-4 will connect to existing water mains located in Covey Lane and new 8” water mains being constructed with Parcel HH1-3. The water lines will for a looped water system to serve Parcel HH1-4.

There are no other existing utilities in this portion of Planning Unit One, which are incorporated within this final plat.

Communications

Cox Communications and Zona Communications can provide video, high-speed data and telephone services to Sun City Festival. Both companies are currently constructing or have facilities within Sun City Festival to serve this project. Both Cox and Zona Communications are aware of the development timeline for Sun City Festival and they have both expressed their ability to provide communications services in accordance with the project's needs.

Natural Gas

Pulte Homes has negotiated an agreement with Southwest Gas to provide natural gas service to Sun City Festival.

Electricity

Pulte Homes has worked with Arizona Public Service (APS) to provide electrical service to Sun City Festival. APS has installed a 69-kV, overhead transmission line that runs from approximately Bell Road and Cotton Lane west along the Salt River Project corridor to service the project. Pulte Homes and APS have also constructed a substation on the Sun City Festival property to service the project. The delivery of electrical service will be timed to meet the project's needs.

Open Space and Recreation

Sun City Festival residents have access to the amenities located throughout the community. These amenities include a 31,000 sq. ft. recreation center, a 25,000 sq. ft. recreation center, the ASU Lifelong Learning Academy, a 27 hole golf course, fitness center, pickle ball, bocce ball, basketball, tennis, softball, wood shop, and crafts studio.

Offsite & Onsite Stormwater Control

A master study of the storm water system was developed for the site. *Sun City Festival Planning Unit One – Parcel HH1 Technical Memo* prepared by Erie and Associates, Inc. Parcel HH1-4 has been designed in accordance with the study (dated February 20, 2020).

Water Supply and Distribution

A study of the water distribution system to serve the area was prepared by Wilson Engineers (September, 2016).

The Sun City Festival potable water infrastructure consists of a system of water distribution mains, booster pump stations, pressure control valves, wells and storage tanks.

The number of wells has been determined based on the maximum day demand and coincident irrigation and construction water use demands. Three groundwater wells will be in operation. The three wells currently serving Sun City Festival are of sufficient size and capacity to serve Parcel HH1-4. Well #1 is in Parcel E1, Well #2 is within the confines of the water campus and Well #3, is within Parcel N1.

The booster pump stations have been designed to meet the greater of the maximum day demand plus fire flow or the peak hour demand. The storage tanks will supplement the source supply when demands exceed maximum day demand (i.e. peak hour and fire flow). Initial storage requirements are based on a four-hour commercial fire flow of maximum intensity and 50% maximum day demand equalization and emergency reserve.

The parcel currently being developed are located within the City of Buckeye pressure zone 6 and have been found to have adequate pressure and supply to serve the associated parcels.

Wastewater Collection and Treatment

A study of the wastewater collection and treatment system to serve this area was prepared by Wilson Engineers (September, 2016).

Based on the natural topography, the wastewater collection infrastructure consists of an existing gravity sewer line in Melinda Lane. The sewer follows street alignments and/or sewer easements, and has been internalized in the residential streets where possible. The trunk sewer discharges to the Festival Ranch Water Reclamation Facility (WRF), located at the southwest corner of the development, south of Sun Valley Parkway.

RECEIVED
21 JUL 2021
CITY OF BUCKEYE by: RB

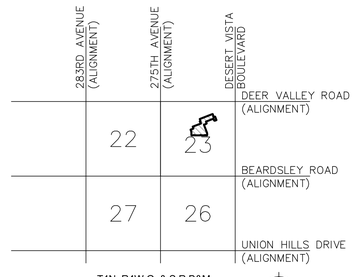
PLZS 21 00109

3rd Submittal

FINAL PLAT OF

SUN CITY FESTIVAL - PARCEL HH1-4

A PARCEL OF LAND SITUATED IN SECTION 23, TOWNSHIP 4 NORTH, RANGE 4
WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN,
CITY OF BUCKEYE, MARICOPA COUNTY, ARIZONA



T4N, R4W G. & S.R.B&M.

VICINITY MAP

NOT TO SCALE

SURVEYOR

KENNETH CONVERSE, R.L.S.
T2 UTILITY ENGINEERS.
19621 N. 23RD DRIVE
SUITE 150
PHOENIX, AZ 85027
PHONE: (602) 977-8000
FAX: (602) 977-8099
Kenneth.Converse@t2ue.com

ENGINEER

DANIEL J. POTTINGER, P.E.
CARDNO, INC.
19621 N. 23RD DRIVE
SUITE 150
PHOENIX, AZ 85027
PHONE: (602) 977-8000
FAX: (602) 977-8099
Daniel.Pottinger@cardno.com

OWNER/DEVELOPER

LAURA MEYERS
PULTE HOME COMPANY, LLC
16767 N. PERIMETER DRIVE,
SUITE 100
SCOTTSDALE, AZ 85260
PHONE: (480) 391-6000
FAX: (480) 391-6100
Laura.Meyers@pultegroup.com

NOTES

1. EXCEPT FOR CONSTRUCTION AND IMPROVEMENTS BY GOVERNMENTAL ENTITIES AND CERTIFIED PUBLIC UTILITIES, CONSTRUCTION AND IMPROVEMENTS WITHIN PUBLIC UTILITY EASEMENTS SHALL BE LIMITED TO ONLY THE FOLLOWING:
   A. WOOD, WIRE, OR REMOVABLE SECTION TYPE FENCING.
   B. CONSTRUCTION, STRUCTURES, MAILBOXES OR BUILDINGS EXPRESSLY APPROVED IN WRITING BY THE CITY OF BUCKEYE AND ALL DRY PUBLIC UTILITIES WHICH USE OR MAY USE THE EASEMENT.
   C. LANDSCAPING.
2. ALL NEW OR RELOCATED UTILITIES ARE TO BE INSTALLED UNDERGROUND EXCEPT POWER LINES 69KV AND LARGER.
3. NO STRUCTURES OF ANY KIND MAY BE CONSTRUCTED, NOR ANY VEGETATION BE PLANTED OR ALLOWED TO GROW WITHIN A DRAINAGE EASEMENT OR TRACT, WHICH WOULD IMPEDE THE FLOW OF WATER OVER UNDER, OR THROUGH THE DRAINAGE EASEMENT OR TRACT.
4. THE SUN CITY FESTIVAL COMMUNITY ASSOCIATION SHALL HAVE THE RESPONSIBILITY OF MAINTAINING ALL COMMON AREAS NOTED AS TRACTS, LANDSCAPED AREAS AND DRAINAGE FACILITIES IN ACCORDANCE WITH THE APPROVED PLANS. THIS RESPONSIBILITY INCLUDES ALL ADJACENT RIGHTS-OF-WAY.
5. THE LAND DESCRIBED IN THIS FINAL PLAT IS LOCATED WITHIN THE CITY OF BUCKEYE SERVICE AREA. CERTIFICATE OF ASSURED 100 YEAR WATER SUPPLY NO. 27-700535.0000, UNDER A.R.S. 45-576, AND THE APPLICABLE REGULATIONS, HAS BEEN ISSUED.
6. AN 18" REBAR , 1/2" DIAMETER, WITH L.S. CAP WILL BE SET AT ALL BOUNDARY CORNERS, LOT CORNERS, POINTS OF CURVATURE, POINTS OF TANGENCY, AND ANGLE POINTS AT COMPLETION OF MASS GRADING.
7. IN EASEMENTS FOR EXCLUSIVE USE OF WATER, SANITARY SEWER, RECLAIMED WATER OR ANY COMBINATION THEREOF, ONLY GROUNDCOVER AND BUSHES ARE ALLOWED TO BE PLANTED WITHIN THE EASEMENT AREA, NO TREES OR BOULDERS ARE ALLOWED.
8. VISIBILITY RESTRICTIONS: ANY OBJECT, WALL, STRUCTURE, MOUND OR LANDSCAPING (MATURE) OVER 24" IN HEIGHT IS NOT ALLOWED WITHIN THE VISIBILITY EASEMENT. TREE CANOPIES OVERHANGING THE EASEMENT, SHALL BE KEPT TRIMMED TO A HEIGHT NO LESS THAN 7'. NO TREES ARE TO BE INSTALLED WITHIN 6' OF ANY FIRE HYDRANT. NO BOULDERS ARE TO BE INSTALLED IN THE V.N.A.E., P.U.E., R/W, OR WITHIN 6' OF THE BACK OF CURB. ANY VEGETATION VIOLATING THESE RESTRICTIONS INCLUDING TREES, SHRUBS, BUSHES OR GROUND COVER MAY BE REMOVED FOR ANY REASON IF DEEMED NECESSARY BY THE CITY OF BUCKEYE.
9. THE MAINTENANCE OF ALL LANDSCAPING WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE THE RESPONSIBILITY OF THE SUN CITY FESTIVAL COMMUNITY ASSOCIATION OR ABUTTING PROPERTY OWNER IN ACCORDANCE WITH THE DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS FOR "SUN CITY FESTIVAL" PREVIOUSLY RECORDED AS INSTRUMENT NO. 2005-1720347 AND ANY SUPPLEMENTAL DECLARATIONS RECORDED PURSUANT THERETO (COLLECTIVELY THE "C.C. & R.'S").
10. ALL MEASUREMENTS ARE THE SAME AS RECORD UNLESS OTHERWISE NOTED. ALL FOUND MONUMENTS ARE WITHIN ACCEPTABLE TOLERANCES PER ARIZONA BOUNDARY SURVEY MINIMUM STANDARDS, UNLESS OTHERWISE NOTED.
11. THE PROPERTY OWNERS, OR ANY SUBSEQUENT OWNERS SHALL NOT PROCEED WITH ANY ON SITE GRADING OR EXCAVATION WITHOUT FIRST OBTAINING A PERMIT FROM THE CITY OF BUCKEYE.
12. IN ACCORDANCE WITH ARS 9-461.07, THE CITY OF BUCKEYE HAS DETERMINED THAT ALL DEDICATIONS OCCURRING WITH THIS PLAT ARE IN CONFORMANCE WITH THE GENERAL PLAN.
13. PURSUANT TO A.R.S. 42-11102, THE CITY OF BUCKEYE, A POLITICAL SUBDIVISION OF THE STATE OF ARIZONA, IS EXEMPT FROM ALL TAXES AND ASSESSMENTS BASED ON ASSESSED VALUE EXCEPT FOR SPECIAL DISTRICTS #14751 AND 14710, WHEN APPLICABLE.
14. THIS SUBDIVISION IS SUBJECT TO A MAINTENANCE IMPROVEMENT DISTRICT (MID) FORMED PURSUANT TO ARS 45-574 WHICH MAY LEVY ANNUAL AD VALOREM TAXES TO COVER THE COSTS OF MAINTAINING THE LANDSCAPING AND ORNAMENTATION ON STREETS WITHING THE SUBDIVISION.
15. THIS SUBDIVISION IS SUBJECT TO THE FORMATION OF A STREET LIGHT IMPROVEMENT DISTRICT (SLID).

SHEET INDEX

SHEET 1 - DEDICATIONS, ACKNOWLEDGMENTS, CERTIFICATIONS AND NOTES
SHEET 2 - BOUNDARY SHEET
SHEET 3 - KEY MAP, LOT, TRACT AND RIGHTS-OF-WAY TABLES
SHEET 4 - 6 - FINAL PLAT PLAN SHEETS

BASIS OF BEARINGS

THE EAST WEST MID SECTION LINE OF SECTION 23, TOWNSHIP 4 NORTH, RANGE 4 WEST OF THE GILA AND SALT RIVER MERIDIAN MARICOPA COUNTY, ARIZONA, USING A BEARINGS OF SOUTH 89°37'07" EAST,

GROSS SITE AREA

1,138,937 SQUARE FEET OR 26.15 ACRES MORE OR LESS.

LIMITATIONS ON THE ISSUANCE OF CERTIFICATES OF OCCUPANCY

THE LOTS AND PARCELS CREATED, DEFINED, OR DEPICTED ON THIS PLAT ARE SUBJECT TO A LIMITATION ON THE ISSUANCE OF CERTIFICATES OF OCCUPANCY. NO PERSON MAY OCCUPY A BUILDING OR STRUCTURE ERECTED ON ANY LOT OR PARCEL CREATED, DEFINED OR DEPICTED ON THIS PLAT UNTIL THE CITY OF BUCKEYE HAS ISSUED A CERTIFICATE OF OCCUPANCY. THE CITY WILL NOT ISSUE A CERTIFICATE OF OCCUPANCY UNTIL STREET, UTILITY, DRAINAGE AND OTHER IMPROVEMENTS RELATING TO THIS PLAT AS REQUIRED BY THE CITY'S SUBDIVISION ORDINANCE ARE COMPLETED TO CITY OF BUCKEYE STANDARDS. THIS LIMITATION MAY BE RELEASED IN PHASES, A PROSPECTIVE BUYER OF A LOT OR PARCEL CREATED, DEFINED, OR DEPICTED ON THIS PLAT SHOULD REQUIRE THE SELLER TO PRODUCE A RECORDED RELEASE OF THIS LIMITATION ON THE ISSUANCE OF CERTIFICATES OF OCCUPANCY SIGNED BY THE CITY OF BUCKEYE BEFORE PURCHASING AND/OR CLOSING ESCROW ON THAT LOT OR PARCEL. FAILURE TO OBTAIN SUCH A RELEASE OF THIS LIMITATION MAY RESULT IN THE BUYER BEING PROHIBITED FROM OCCUPYING A HOUSE OR OTHER STRUCTURE BUILT ON THE LOT OR PARCEL. THIS LIMITATION IS SUBJECT TO THE REASONABLE DISCRETION BY THE CITY AS TO THE COMPLETION STATUS OF OTHER IMPROVEMENTS SUCH AS LANDSCAPING AND PUNCH LIST ITEMS THAT ARE IN PROCESS, OPERATIONAL AND SUBSTANTIALLY COMPLETE. THE HOMEBUILDER SHALL BE REQUIRED TO DISCLOSE THIS STATEMENT OF LIMITATION ON THE ISSUANCE OF CERTIFICATES OF OCCUPANCY TO A PROSPECTIVE BUYER PRIOR TO THE BUYER PURCHASING AND CLOSING ESCROW ON ANY BUILDING OR STRUCTURE ON ANY LOT OR PARCEL.

FLOOD ZONE DESIGNATIONS

THE PROPERTY IS LOCATED WITHIN AN AREA DESIGNATED AS SHADED FLOOD ZONE "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO. 04013C1170L, WITH A REVISION DATE OF OCTOBER 16, 2013 FOR COMMUNITY NUMBER 040039, IN THE CITY OF BUCKEYE, COUNTY OF MARICOPA, STATE OF ARIZONA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

HOMEOWNERS ASSOCIATION RATIFICATION

KNOW ALL PERSONS BY THESE PRESENTS:

THE UNDERSIGNED, DULY AUTHORIZED OF THE SUN CITY FESTIVAL COMMUNITY ASSOCIATION, AN ARIZONA NON-PROFIT ORGANIZATION, HEREBY RATIFIES THE RECORDATION OF THIS FINAL PLAT OF "SUN CITY FESTIVAL - PARCEL HH1-4" AND ACKNOWLEDGES THE RESPONSIBILITIES SET FORTH THEREIN.

SUN CITY FESTIVAL COMMUNITY ASSOCIATION,
AN ARIZONA NON-PROFIT ORGANIZATION

BY:_____ DATE:_____

ITS: _____

ACKNOWLEDGMENT

STATE OF ARIZONA)
) SS
COUNTY OF MARICOPA)

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS_____DAY OF_____, 20___, BY_____, THE_____ OF SUN CITY FESTIVAL COMMUNITY ASSOCIATION, AN ARIZONA NON-PROFIT ORGANIZATION, FOR AND ON BEHALF THEREOF.

_____
NOTARY PUBLIC

_____
MY COMMISSION EXPIRES:

APPROVAL

APPROVED BY THE COUNCIL OF THE CITY OF BUCKEYE ON

THIS _____ DAY OF_____20____.

BY: _____
MAYOR

ATTEST: _____
CITY CLERK

I CERTIFY THAT ALL ENGINEERING CONDITIONS AND REQUIREMENTS HAVE BEEN COMPLIED WITH.

BY: _____
BUCKEYE CITY ENGINEER DATE

BY: _____
DEVELOPMENT SERVICES DIRECTOR DATE

CERTIFICATION

I, KENNETH P. CONVERSE, HEREBY CERTIFY THAT I AM A REGISTERED LAND SURVEYOR IN THE STATE OF ARIZONA, THAT THIS PLAT CONSISTING OF SIX SHEETS CORRECTLY REPRESENTS A BOUNDARY SURVEY MADE BY ME DURING THE MONTH OF JUNE, 2021. THAT THE SURVEY IS TRUE AND CORRECT AS SHOWN, THAT ALL MONUMENTS EXIST OR WILL BE SET AND, THAT THEIR POSITIONS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

_____
KENNETH P. CONVERSE, R.L.S.
ARIZONA REGISTERED LAND SURVEYOR #29259

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

DEDICATION

STATE OF ARIZONA)
) SS
COUNTY OF MARICOPA)

KNOW ALL PERSONS BY THESE PRESENTS:

THAT PULTE HOME COMPANY, LLC, A MICHIGAN LIMITED LIABILITY COMPANY, ("OWNER"), HAS SUBDIVIDED UNDER THE NAME OF "SUN CITY FESTIVAL - PARCEL HH1-4", A SUBDIVISION LOCATED IN A PORTION OF SECTION 23, TOWNSHIP 4 NORTH, RANGE 4 WEST, OF THE GILA AND SALT RIVER MERIDIAN, CITY OF BUCKEYE, COUNTY OF MARICOPA, STATE OF ARIZONA, AS SHOWN AND PLATTED HEREON AND DOES HEREBY PUBLISH THIS PLAT AS AND FOR THE PLAT OF "SUN CITY FESTIVAL - PARCEL HH1-4" AND DECLARES THAT THIS PLAT SETS FORTH THE LOCATION AND GIVES THE DIMENSIONS OF EACH LOT, TRACT, STREET, AND EASEMENT CONSTITUTING SAME, AND THAT EACH LOT, TRACT, STREET, AND EASEMENT SHALL BE KNOWN BY THE NUMBER, LETTER, AND/OR NAME GIVEN TO EACH RESPECTIVELY AS SHOWN ON THIS PLAT.

OWNER HEREBY DEDICATES TO THE CITY OF BUCKEYE FEE TITLE TO ALL PUBLIC RIGHT-OF-WAYS AS SHOWN ON THE PLAT.

OWNER HEREBY GRANTS TO THE CITY OF BUCKEYE NON-EXCLUSIVE EASEMENTS OVER, UPON, AND ACROSS THE AREAS DESIGNATED AS "ROADWAY EASEMENT" AS SHOWN ON THE PLAT FOR THE PURPOSE OF INSTALLING, CONSTRUCTING, MAINTAINING, REPAIRING, REPLACING AND UTILIZING STREETS AS PER THE CITY OF BUCKEYE ENGINEERING DESIGN STANDARDS.

OWNER HEREBY GRANTS TO THE CITY OF BUCKEYE A NON-EXCLUSIVE EASEMENT OVER, UPON AND ACROSS THE AREAS DESIGNATED AS "PUBLIC UTILITY EASEMENT" AS SHOWN ON THE PLAT FOR THE PURPOSE OF INSTALLING, CONSTRUCTING, MAINTAINING, REPAIRING, REPLACING AND UTILIZING PUBLIC UTILITIES.

OWNER HEREBY GRANTS TO THE CITY OF BUCKEYE A NON-EXCLUSIVE EASEMENT OVER, UPON AND ACROSS THE AREAS DESIGNATED AS "SIGHT VISIBILITY TRIANGLE EASEMENT" FOR THE PURPOSE OF ENSURING THAT THESE AREAS REMAIN FREE OF SIGHT VISIBILITY OBSTRUCTIONS AS PER THE ENGINEERING DESIGN STANDARDS.

OWNER HEREBY GRANTS TO THE CITY OF BUCKEYE AND THE SUN CITY FESTIVAL COMMUNITY ASSOCIATION A NON-EXCLUSIVE EASEMENT OVER, UPON, UNDER AND ACROSS THE AREAS DESIGNATED AS "VEHICULAR NON-ACCESS EASEMENT" FOR THE PURPOSE OF PROHIBITING VEHICULAR ACCESS ACROSS SAID AREAS.

THE MAINTENANCE OF LANDSCAPING WITHIN THE OPEN SPACES, LANDSCAPED TRACTS, RETENTION BASINS AND PARKS SHALL BE THE RESPONSIBILITY OF THE OWNER OR THE ASSOCIATION FORMED BY THE OWNER.

THE MAINTENANCE OF LANDSCAPING WITHIN THE ADJACENT PUBLIC RIGHT-OF-WAYS, INCLUDING; LANDSCAPED MEDIANS WITHIN COLLECTORS AND LOCAL STREETS AND LANDSCAPED AREAS BETWEEN THE CURB AND THE DETACHED SIDEWALK, SHALL BE THE RESPONSIBILITY OF THE ADJACENT PROPERTY OWNER OR THE PROPERTY ASSOCIATION FORMED BY THE ADJACENT PROPERTY.

TRACTS "A" THROUGH "K" ARE HEREBY DECLARED AS COMMON AREAS FOR THE PURPOSES SHOWN, AND FOR THE USE AND ENJOYMENT OF THE LOT OWNERS IN OTHER SUN CITY FESTIVAL PARCELS AS MORE FULLY SET FORTH IN THE DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS FOR "SUN CITY FESTIVAL" TO BE HEREAFTER RECORDED, AND WILL BE OWNED AND MAINTAINED BY THE SUN CITY FESTIVAL COMMUNITY ASSOCIATION. THE TRACTS WILL NOT BE CONVEYED TO THE CITY OF BUCKEYE AND ALL COMMON PROPERTY SHALL BE APPROVED BY THE CITY OF BUCKEYE AND SHALL BE CONVEYED BY WARRANTY (OR SPECIAL WARRANTY) DEED TO THE SUN CITY FESTIVAL COMMUNITY ASSOCIATION. DWELLING UNITS SHALL NOT BE CONSTRUCTED ON SAID TRACTS.

TRACT L IS HEREBY RESERVED FOR FUTURE WELLSITE.

THE EASEMENTS GRANTED WITHIN THIS DEDICATION ARE PERMANENT AND PERPETUAL AND SHALL RUN WITH THE LAND AND BE BINDING UPON OWNER AND ITS HEIRS, ASSIGNS, AND SUCCESSORS IN INTEREST TO THIS PLAT OR ANY PARCEL OR LOT THEREOF.

IN WITNESS WHEREOF THAT PULTE HOME COMPANY, LLC, A MICHIGAN LIMITED LIABILITY COMPANY, ("OWNER"), HAS HEREUNTO CAUSED ITS CORPORATE NAME TO BE SIGNED AND ITS CORPORATE SEAL TO BE AFFIXED BY THE UNDERSIGNED, DULY AUTHORIZED OFFICER

THIS_____ DAY OF _____, 20____.

BY: PULTE HOME COMPANY, LLC, A MICHIGAN LIMITED LIABILITY COMPANY

BY: _____.

ITS: _____.

ACKNOWLEDGMENT

STATE OF ARIZONA)
) SS
COUNTY OF MARICOPA)

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS_____DAY OF_____, 20___, BY_____, THE_____ _____ OF PULTE HOME COMPANY, LLC, A MICHIGAN LIMITED LIABILITY COMPANY, THE SUCCESSOR UPON THE CONVERSION OF PULTE HOME CORPORATION, A MICHIGAN CORPORATION, FOR AND ON BEHALF THEREOF.

_____
NOTARY PUBLIC

_____
MY COMMISSION EXPIRES:

MANAGING ENGINEERING / SURVEYOR	KENNETH CONVERSE, R.L.S.
PROJECT COORDINATOR	DANIEL J. POTTINGER, P.E.
DESIGN/LAYOUT	DLP
DRAFTED	JAW
CHECKED	DJP
FIELD SURVEY	KPC
DRAFTED	TLB
CHECKED	ALS
DRAWING SCALES	NTS

FINAL PLAT

T2 utility engineers
PHOENIX
19621 N. 23RD DRIVE, SUITE 150,
PHOENIX, AZ 85027
TEL:(602)-977-8000
FAX:(602)-977-8099
www.T2UE.com

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ENGINEER INFORMATION

PLAN TYPE

SUN CITY FESTIVAL
PARCEL HH1-4

PROJECT PLAN STICKER

PROJECT

REVISIONS:

1

2

3

COB PERMITTING APPROVED STAMP

COB ENGINEERING APPROVED STAMP

SUBMITTAL

(POSSIBLE AS-BUILT SEAL)

DESIGN SEAL

Expires 6/30/22
REGISTERED LAND SURVEYOR
CERTIFICATE NO.
29259
KENNETH P.
CONVERSE
Date Signed 7/21/21

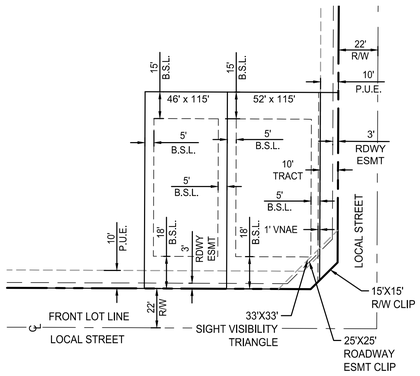
ORIGINAL PLAN DATE
Jul/2021

LATEST REVISION DATE

PROJECT NUMBER
4151093000

SHEET NUMBER
1 OF 6

COB PLAN PACKAGE #
PLZS-21-00109
COB PERMIT #



TYPICAL SETBACK DETAILS
N.T.S.

1. SUN CITY FESTIVAL CMP DEVELOPMENT OPTION 2 R1-3.5

503-84-007J
USA-BOR
DOC: 13429-0975, M.C.R .

503-84-008Q
PULTE HOME CORP
DOC: 04-1205690, M.C.R .

SUN CITY FESTIVAL
PARCEL HH1-1
BK 1290, PG 36, M.C.R.
(RECORDED 09/19/2016)

SUN CITY FESTIVAL
PARCEL HH1-3

SUN CITY FESTIVAL
PARCEL HH1-2
BK 1423, PG 41, M.C.R.
(RECORDED 11/13/2018)

PROPOSED
SUN CITY FESTIVAL
PARCEL HH1-3

MID-SECTION LINE

SEE DETAIL "A"

N69°27'50"E 973.84'
S20°31'33"E 162.54'
S20°31'33"E 260.00'
S69°28'27"W 572.26'
N20°31'33"W 140.00'
S20°32'24"E 140.00'
S69°27'36"W 169.50'
S20°32'24"E 611.75'
N69°27'36"E 618.00'
N69°27'36"E 197.00'
N00°22'53"E 202.31'
S00°27'53"W 3282.41'
N89°37'07"W 145.00'
N89°37'07"W 386.78'
N89°37'07"W 248.91'
S00°22'53"W 244.00'
S89°37'07"E 2641.18'
S89°37'07"E 2636.85'
2186.93'
454.25'

RADIAL BEARING N26°26'16"E 45.00'
RADIAL BEARING N88°39'45"E 45.00'
RADIAL BEARING S88°39'45"W 45.00'
RADIAL BEARING S74°02'16"W 45.00'
RADIAL BEARING S39°43'41"E 45.00'
RADIAL BEARING S20°32'24"E 45.00'
RADIAL BEARING N09°39'06"E 45.00'
RADIAL BEARING N39°43'41"W 45.00'

WEST QUARTER CORNER
SEC 23, T4N, R4W
GILA AND SALT RIVER MERIDIAN
FOUND G.L.O. BRASS CAP

EAST QUARTER CORNER
SEC 23, T4N, R4W
GILA AND SALT RIVER MERIDIAN
FOUND G.L.O. BRASS CAP

P.O.B

175'
WAPA ELECTRIC
TRANSMISSION LINE ESMT
REC. #93-0572904

200'

330'
SRP ELECTRIC
TRANSMISSION LINE ESMT
REC. #85-411065
REC. #85-411077

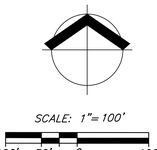
50'
TRANSWESTERN
TEMP WORKSPACE ESMT
REC. #2008-0678812, M.C.R.

50'
TRANSWESTERN
PIPELINE ESMT (GAS)
D.O.C. #2008-0678812, M.C.R.

129.87'

10'
APS ROW ESMT
REC. #2005-0073629

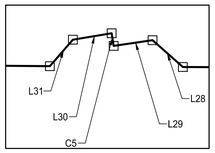
BEARDSLEY PARKWAY



LINE TABLE		
NO.	BEARING	LENGTH
L1	N08°56'56"W	58.60'
L2	N16°57'09"W	58.56'
L3	N20°32'24"W	94.13'
L4	N20°32'24"W	6.00'
L5	N69°27'36"E	22.00'
L6	N20°32'24"W	140.00'
L7	N20°32'24"W	100.00'
L8	N65°32'24"W	21.21'
L9	N20°32'24"W	22.00'
L10	S69°27'36"W	10.58'
L11	N20°32'24"W	22.00'
L12	N09°39'06"E	18.63'
L13	N20°32'24"W	105.00'
L14	N20°32'10"W	49.84'
L15	S26°26'16"W	24.78'
L16	N69°28'27"E	114.86'
L17	S69°28'27"W	120.00'
L18	N20°31'33"W	27.00'

LINE TABLE		
NO.	BEARING	LENGTH
L19	S69°28'27"W	44.00'
L20	S69°27'36"W	44.00'
L21	S20°32'24"E	17.78'
L22	S09°52'29"E	61.00'
L23	S00°22'53"W	118.76'
L24	N89°37'07"W	105.00'
L25	N44°37'07"W	21.21'
L26	N89°37'07"W	44.00'
L27	S45°22'53"W	21.21'
L28	N48°28'53"W	22.59'
L29	S81°38'15"W	22.00'
L30	S80°36'56"W	22.00'
L31	S41°04'01"W	19.56'
L32	N44°37'07"W	21.21'
L33	N89°37'07"W	44.00'
L34	S45°22'53"W	21.21'

CURVE TABLE			
NO.	DELTA	RADIUS	LENGTH
C1	19°11'17"	45.00'	15.07'
C2	49°22'47"	45.00'	38.78'
C3	62°13'29"	45.00'	48.87'
C4	14°37'29"	45.00'	11.49'
C5	1°01'19"	400.00'	7.14'



DETAIL A

TITLE
SUN CITY FESTIVAL
PARCEL HH1-4
FINAL PLAT

ENGINEER INFORMATION:
Cardno
PHOENIX
19621 N. 23RD DRIVE, SUITE 150,
PHOENIX, AZ 85027
TEL: (602)977-8000 FAX: (602)977-8099
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COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

(POSSIBLE AS-BUILT SEAL)

DESIGN SEAL
Expires 6/30/23
REGISTERED LAND SURVEYOR
CERTIFICATE NO.
29259
KENNETH P. CONVERSE
7/21/21
ARIZONA U.S.A.

SUBMITTAL

ORIGINAL PLAN DATE: Jul/2021

LATEST REVISION DATE: -

PROJECT NUMBER: 4151093000

SHEET NUMBER: 2 of 6

COT PLAN TRACKING #

PLZS-21-00109

COT PERMIT #

LOT SUMMARY TABLE	
LOT #	*AREA (SF)*
1	5,277
2	5,290
3	5,290
4	5,290
5	5,601
6	5,838
7	5,724
8	5,290
9	5,290
10	5,290
11	5,290
12	5,290
13	5,290
14	5,290
15	5,290
16	5,290
17	5,290
18	5,278
19	5,507
20	5,520

LOT SUMMARY TABLE	
LOT #	*AREA (SF)*
21	5,520
22	5,520
23	5,504
24	7,509
25	8,873
26	7,414
27	5,506
28	5,520
29	5,516
30	6,323
31	5,752
32	5,543
33	5,290
34	5,289
35	5,281
36	5,301
37	5,309
38	5,765
39	6,575
40	5,545

LOT SUMMARY TABLE	
LOT #	*AREA (SF)*
41	5,639
42	6,221
43	6,423
44	6,223
45	5,520
46	5,520
47	5,520
48	5,520
49	5,520
50	5,520
51	5,520
52	5,520
53	5,520
54	5,520
55	5,520
56	5,520
57	5,507
58	6,228
59	6,240
60	5,278

LOT SUMMARY TABLE	
LOT #	*AREA (SF)*
61	5,290
62	5,290
63	5,290
64	5,290
65	5,290
66	5,290
67	5,290
68	5,290
69	5,290
70	5,290
71	5,309
72	6,240
73	6,240
74	6,240
75	6,240
76	6,240
77	5,520
78	5,520
79	5,520
80	5,520

LOT SUMMARY TABLE	
LOT #	*AREA (SF)*
81	5,520
82	5,520
83	5,520
84	5,520
85	5,520
86	5,520
87	5,520
88	5,401
89	5,697
90	5,232
91	5,290
92	5,290
93	5,290
94	5,231
95	5,278
96	5,290
97	5,290
98	5,290
99	5,290
100	5,290

LOT SUMMARY TABLE	
LOT #	*AREA (SF)*
101	5,290
102	5,290
103	5,290
104	5,290
105	5,290
106	5,278
107	5,521
108	5,904
109	5,911
110	5,827
111	5,520
112	5,520
113	5,520
114	5,508
TOTAL LOT AREA = 636,614 SQUARE FEET OR 14.61 ACRES MORE OR LESS	

TRACT USE AND AREA TABLE			
TRACT	*PRIMARY USE*	*SQ. FT.*	*ACRE*
TRACT A	LANDSCAPE/DRAINAGE	28,074	0.64
TRACT B	LANDSCAPE/DRAINAGE	100,433	2.31
TRACT C	LANDSCAPE/DRAINAGE	24,096	0.55
TRACT D	LANDSCAPE	7,100	0.16
TRACT E	LANDSCAPE/DRAINAGE	32,110	0.74
TRACT F	LANDSCAPE/DRAINAGE	7,843	0.18
TRACT G	LANDSCAPE/DRAINAGE	102,108	2.34
TRACT H	LANDSCAPE	1,050	0.02
TRACT I	LANDSCAPE	1,050	0.02
TRACT J	LANDSCAPE	277	0.01
TRACT K	LANDSCAPE	1,490	0.03
TRACT L	WELLSITE	11,015	0.25
TOTAL TRACT AREA = 316,645 SQUARE FEET OR 7.30 ACRES MORE OR LESS			

TOTAL SUMMARY TABLE	
TOTAL LOT AREA	636,614 SQ FT, 14.61 AC.
TOTAL TRACT AREA	316,645 SQ FT, 7.27 AC.
TOTAL RIGHT OF WAY AREA	185,678 SQ FT, 4.26 AC.
COMBINE TOTAL AREA	1,138,937 SQ FT, 26.15 AC.

RIGHT-OF-WAY AREA TABLE			
STREET NAME	*PRIMARY USE*	*SQ. FT.*	*ACRE*
269TH AVENUE	RIGHT-OF-WAY	14,300	0.33
270TH AVENUE	RIGHT-OF-WAY	15,185	0.35
270TH DRIVE	RIGHT-OF-WAY	49,597	1.14
270TH LANE	RIGHT-OF-WAY	12,557	0.29
271ST DRIVE	RIGHT-OF-WAY	21,587	0.50
ABRAHAM LANE	RIGHT-OF-WAY	11,418	0.26
ADAM AVENUE	RIGHT-OF-WAY	25,873	0.59
MELINDA LANE	RIGHT-OF-WAY	23,395	0.54
QUAIL AVENUE	RIGHT-OF-WAY	11,767	0.27
TOTAL RIGHT-OF-WAY AREA = 185,678 SQUARE FEET OR 4.26 ACRES MORE OR LESS			



TITLE

SUN CITY FESTIVAL
PARCEL HH1-4
FINAL PLAT

ENGINEER INFORMATION

Cardno
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COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

SUBMITTAL

(POSSIBLE AS-BUILT SEAL)

DESIGN SEAL

Expires 6/30/22
REGISTERED LAND SURVEYOR
CERTIFICATE NO.
29259
KENNETH P.
CONVERSE
Date of Revision
7/7/22
Kenneth P. Converse

ORIGINAL PLAN DATE
Jul/2021

LATEST REVISION DATE
-

PROJECT NUMBER
4151093000

SHEET NUMBER
3 of 6

COS PLAN TRACKING #
PLZS-21-00109

COS PERMIT #

LEGEND

⊕	SURVEY CORNER MONUMENT (FOUND AS NOTED)
◎	BRASS CAP MONUMENT (FOUND AS NOTED)
◉	INTERIOR MONUMENT SET BRASS CAP PER MAG DETAIL 120-1 TYPE B
●	CORNER OF THIS SUBDIVISION SET 5/8" REBAR WITH CAP RLS #29259 UNLESS OTHERWISE STATED
△	MONUMENT PER SUN CITY FESTIVAL PARCEL HH1-1 BOOK 1423, PG 41, M.C.R. RLS# 19846
⊡	MONUMENT PER PROPOSE SUN CITY FESTIVAL PARCEL HH1-3
P.U.E.	PUBLIC UTILITY EASEMENT
V.N.A.E.	VEHICULAR NON-ACCESS EASEMENT
M.C.R.	MARICOPA COUNTY RECORDER
R/W	RIGHT OF WAY
E.E.	ELECTRICAL EASEMENT
(A)	33' X 33' SIGHT VISIBILITY TRIANGLE EASEMENT
(B)	10' P.U.E.
(C)	3' ROADWAY EASEMENT
(D)	25' X 25' ROADWAY EASEMENT CLIP
(E)	10' PUE PER PROPOSED SUN CITY FESTIVAL PARCEL HH1-3
(F)	3' ROADWAY EASEMENT PER PROPOSED SUN CITY FESTIVAL PARCEL HH1-3
(G)	44' R/W PER PROPOSED SUN CITY FESTIVAL PARCEL HH1-3
(H)	33' X 33' SIGHT VISIBILITY TRIANGLE EASEMENT PER PROPOSED SUN CITY FESTIVAL PARCEL HH1-3
(I)	25' ROADWAY EASEMENT CLIP PER PROPOSED SUN CITY FESTIVAL PARCEL HH1-3
	MATCHLINE
	BOUNDARY LINE
	ROAD CENTERLINE
	PROPOSED RIGHT-OF-WAY LINE
	EXISTING RIGHT-OF-WAY LINE
	PARCEL LINE
	EXISTING PARCEL LINE
	SECTION LINE
	EASEMENT LINE

503-84-008Q
PULTE HOME
CORPORATION

MID-SECTION LINE

SCALE: 1"= 40'

40 20 0 40

LINE TABLE		
NO.	BEARING	LENGTH
L2	N16°57'09"W	58.56'
L3	N20°32'24"W	6.00'
L4	N69°27'36"E	22.00'
L5	N65°32'24"W	21.21'
L6	N20°32'24"W	22.00'
L7	S69°27'36"W	10.58'
L8	N20°32'24"W	22.00'
L9	N09°39'06"E	18.63'
L10	N20°32'10"W	49.84'
L26	N69°27'36"E	47.58'
L27	N25°03'13"E	21.43'
L28	N25°03'13"E	14.34'
L29	S65°32'24"E	21.21'

LINE TABLE		
NO.	BEARING	LENGTH
L30	S65°32'24"E	14.14'
L31	S65°32'24"E	21.21'
L32	S65°32'24"E	14.14'
L33	N24°27'36"E	21.21'
L34	N24°27'36"E	14.14'
L35	N24°27'36"E	21.21'
L36	N24°27'36"E	14.14'
L37	S65°32'24"E	21.21'
L38	S65°32'24"E	15.33'
L55	N18°05'24"W	43.82'
L56	N20°30'41"W	46.00'
L59	S06°30'13"E	20.62'

CURVE TABLE			
NO.	DELTA	RADIUS	LENGTH
C1	19°11'17"	45.00'	15.07'
C2	49°22'47"	45.00'	38.78'
C6	20°55'17"	634.00'	231.50'
C7	128°22'35"	45.00'	100.83'
C8	19°11'17"	45.00'	15.07'
C15	9°31'30"	666.00'	110.72'

Call at least two full working days before you begin excavation.
ARIZONA 811 Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

TITLE
SUN CITY FESTIVAL
PARCEL HH1-4
FINAL PLAT

ENGINEER INFORMATION

Cardno
PHOENIX
1921 N. 23RD DRIVE, SUITE 150,
PHOENIX, AZ 85027
TEL:(602)977-8000 FAX:(602)977-8099
www.cardno.com

T2 utility engineers
PHOENIX
1921 N. 23RD DRIVE, SUITE 150,
PHOENIX, AZ 85027
TEL:(602)977-8000 FAX:(602)977-8099
www.T2UE.com

COS PERMITTING APPROVED SEAL

COS ENGINEERING APPROVED SEAL

SUBMITTAL

(POSSIBLE AS-BUILT SEAL)

DESIGN SEAL

Expires 6/30/22
REGISTERED LAND SURVEYOR
CERTIFICATE NO.
29259
KENNETH P. CONVERSE
Date of Registration 7/2/21
ARIZONA U.S.A.

ORIGINAL PLAN DATE
Jul/2021

LATEST REVISION DATE
-

PROJECT NUMBER
4151093000

SHEET NUMBER
4 of 6

COS CASE PROJECT #
PLZS-21-00109
COS PERMIT #

LINE TABLE		
NO.	BEARING	LENGTH
L1	N08°56'56"W	58.60'
L2	N16°57'09"W	58.56'
L16	N44°37'07"W	21.21'
L17	N89°37'07"W	44.00'
L18	S45°22'53"W	21.21'
L19	N48°28'53"W	22.59'
L20	S81°38'15"W	22.00'
L21	S80°36'56"W	22.00'
L22	S41°04'01"W	19.56'
L23	N44°37'07"W	21.21'
L24	N89°37'07"W	44.00'
L25	S45°22'53"W	21.21'
L39	S24°27'36"W	21.21'
L40	S24°27'36"W	14.14'

LINE TABLE		
NO.	BEARING	LENGTH
L41	S65°32'24"E	21.21'
L42	S65°32'24"E	14.14'
L43	N23°28'14"E	20.84'
L44	N48°28'53"W	15.20'
L53	N01°10'17"W	44.26'
L54	N12°59'29"W	43.77'
L57	N00°22'53"E	46.40'
L58	N08°42'43"W	41.82'
L62	S45°22'53"W	14.14'
L63	S45°22'53"W	7.07'
L64	N44°37'07"W	7.07'
L65	N44°37'07"W	14.14'

LEGEND

- A — 33' X 33' SIGHT VISIBILITY TRIANGLE EASEMENT
- B — 10' P.U.E.
- C — 3' ROADWAY EASEMENT
- D — 25' X 25' ROADWAY EASEMENT CLIP
- E — 10' PUE PER PROPOSED SUN CITY FESTIVAL PARCEL HH1-3
- F — 3' ROADWAY EASEMENT PER PROPOSED SUN CITY FESTIVAL PARCEL HH1-3
- G — 44' R/W PER PROPOSED SUN CITY FESTIVAL PARCEL HH1-3
- H — 33' X 33' SIGHT VISIBILITY TRIANGLE EASEMENT PER PROPOSED SUN CITY FESTIVAL PARCEL HH1-3
- I — 25' ROADWAY EASEMENT CLIP PER PROPOSED SUN CITY FESTIVAL PARCEL HH1-3

- MATCHLINE
- BOUNDARY LINE
- ROAD CENTERLINE
- PROPOSED RIGHT-OF-WAY LINE
- EXISTING RIGHT-OF-WAY LINE
- PARCEL LINE
- EXISTING PARCEL LINE
- SECTION LINE
- EASEMENT LINE

- SURVEY CORNER MONUMENT (FOUND AS NOTED)
- BRASS CAP MONUMENT (FOUND AS NOTED)
- INTERIOR MONUMENT SET BRASS CAP PER MAG DETAIL 120-1 TYPE B
- CORNER OF THIS SUBDIVISION SET 5/8" REBAR WITH CAP RLS #29259 UNLESS OTHERWISE STATED
- MONUMENT PER SUN CITY FESTIVAL PARCEL HH1-1 BOOK 1423, PG 41, M.C.R. RLS# 19846
- MONUMENT PER PROPOSE SUN CITY FESTIVAL PARCEL HH1-3

P.U.E. PUBLIC UTILITY EASEMENT
V.N.A.E. VEHICULAR NON-ACCESS EASEMENT
M.C.R. MARICOPA COUNTY RECORDER
R/W RIGHT OF WAY
E.E. ELECTRICAL EASEMENT

CURVE TABLE			
NO.	DELTA	RADIUS	LENGTH
C5	1°01'19"	400.00'	7.14'
C13	19°11'17"	45.00'	15.07'
C14	19°11'17"	45.00'	15.07'

SCALE: 1"= 40'
40 20 0 40

MATCH LINE SEE SHEET 4

N69°27'36"E 276.00'
N69°27'36"E 287.10'
MID-SECTION LINE
N74°27'32"E 120.02'
S79°33'30"W 120.02'
N69°27'36"E 185.86'
N69°27'36"E 339.89'
N47°16'41"W 134.16'
N18°31'53"E 128.53'
N86°15'02"W 124.72'
N83°20'04"E 120.87'
N87°17'33"E 116.12'
N86°24'06"E 120.02'
S89°37'17"E 120.01'
S89°37'07"E 115.00'
N89°37'17"W 120.01'
N89°37'17"W 120.00'
N89°37'18"W 115.00'
N89°37'07"W 110.00'
N89°37'07"W 145.00'
N89°37'07"W 386.78'
N89°37'07"W 248.91'
N89°37'07"W 105.00'
N00°22'53"E 202.31'
N00°22'43"E 184.01'
N00°22'53"E 189.10'
S00°22'53"W 289.41'
S20°32'24"E 115.00'
S20°32'24"E 611.75'
S00°22'53"W 118.76'
S00°22'53"W 619.00'
N69°27'36"E 110.00'
S67°28'51"W 113.94'
S67°28'51"W 117.21'
S67°28'51"W 115.00'
S67°28'51"W 120.00'
S67°28'51"W 119.41'
N22°31'08"W 143.46'
N22°31'08"W 149.36'
N16°05'27"W 59.90'
N10°17'44"W 68.95'
S89°37'07"E 112.62'
S69°27'37"W 115.16'
S69°27'39"W 115.49'
S73°54'37"W 115.17'
S88°39'58"W 115.17'
N89°37'07"W 115.24'
N20°20'04"W 183.43'
S69°27'36"E 120.00'
S69°27'36"W 120.00'
S76°04'00"W 122.95'
S83°55'42"W 122.82'
N89°37'07"W 120.00'
N89°37'07"W 118.34'
S20°32'24"E 855.56'
L=223.47'
L=73.10'
L=42.51'
L=231.50'
R=634.00'
D=020°55'47"
L=54.47'
L=218.45'
L=45.32'
L=35.37'
L=34.45'
L=30.61'
L=34.76'
L=0.92'
L=1.62'
L=65.65'
L=104.27'
L=43.88'
L=36.18'
L=71.60'
L=105.54'
R=300.00'
D=020°09'17"
L=117.58'
L=14.18'
L=36.27'
L=21.91'
L=8.32'
L=8.43'
C14
C13
C5
R=400.00'
D=020°34'01"
R=45.00'
D=130°21'20"
R=45.00'
D=019°11'17"
R=45.00'
D=019°11'17"
R=300.00'
D=020°09'17"
R=400.00'
D=020°34'01"
22 RW
1' VNAE
46.00'
41.00'
53.70'
51.71'
189.10'
338.76'
284.76'
254.67'
265.11'
202.60'
165.80'
80.18'
101.15'
57.46'
44.91'
44.52'
53.77'
45.34'
59.58'
105.42'
105.43'
13.34'
TRACT A
TRACT B
TRACT C
TRACT K
271ST DRIVE
270TH LANE
270TH DRIVE
QUAIL AVENUE
COVEY LANE
SUN CITY FESTIVAL PARCEL HH1-3
175' WAPA ELECTRIC TRANSMISSION LINE ESMT REC. #93-0572904
MID-SECTION LINE

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

TITLE
SUN CITY FESTIVAL
PARCEL HH1-4
FINAL PLAT

ENGINEER INFORMATION
Cardno
PHOENIX
19421 N. 23RD DRIVE, SUITE 150,
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COS PERMITTING APPROVED SEAL
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SUBMITTAL
(POSSIBLE AS-BUILT SEAL)
DESIGN SEAL
Expires 6/30/22
REGISTERED LAND SURVEYOR
CERTIFICATE NO.
29259
KENNETH P. CONVERSE
7/7/21
Kenneth P. Converse

ORIGINAL PLAN DATE: Jul/2021
LATEST REVISION DATE: -
PROJECT NUMBER: 4151093000
SHEET NUMBER: 5 of 6
COS PLAN PROJECT #: PLZS-21-00109
COS PERMIT #:

1401

LEGEND

- SURVEY CORNER MONUMENT (FOUND AS NOTED)
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- M.C.R. MARICOPA COUNTY RECORDER
- R/W RIGHT OF WAY
- E.E. ELECTRICAL EASEMENT
- (A) 33' X 33' SIGHT VISIBILITY TRIANGLE EASEMENT
- (B) 10' P.U.E.
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- MATCHLINE
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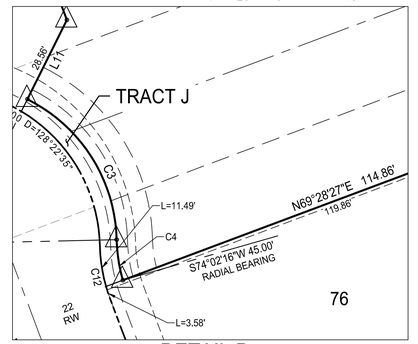
- EXISTING RIGHT-OF-WAY LINE
- PARCEL LINE
- EXISTING PARCEL LINE
- SECTION LINE
- EASEMENT LINE

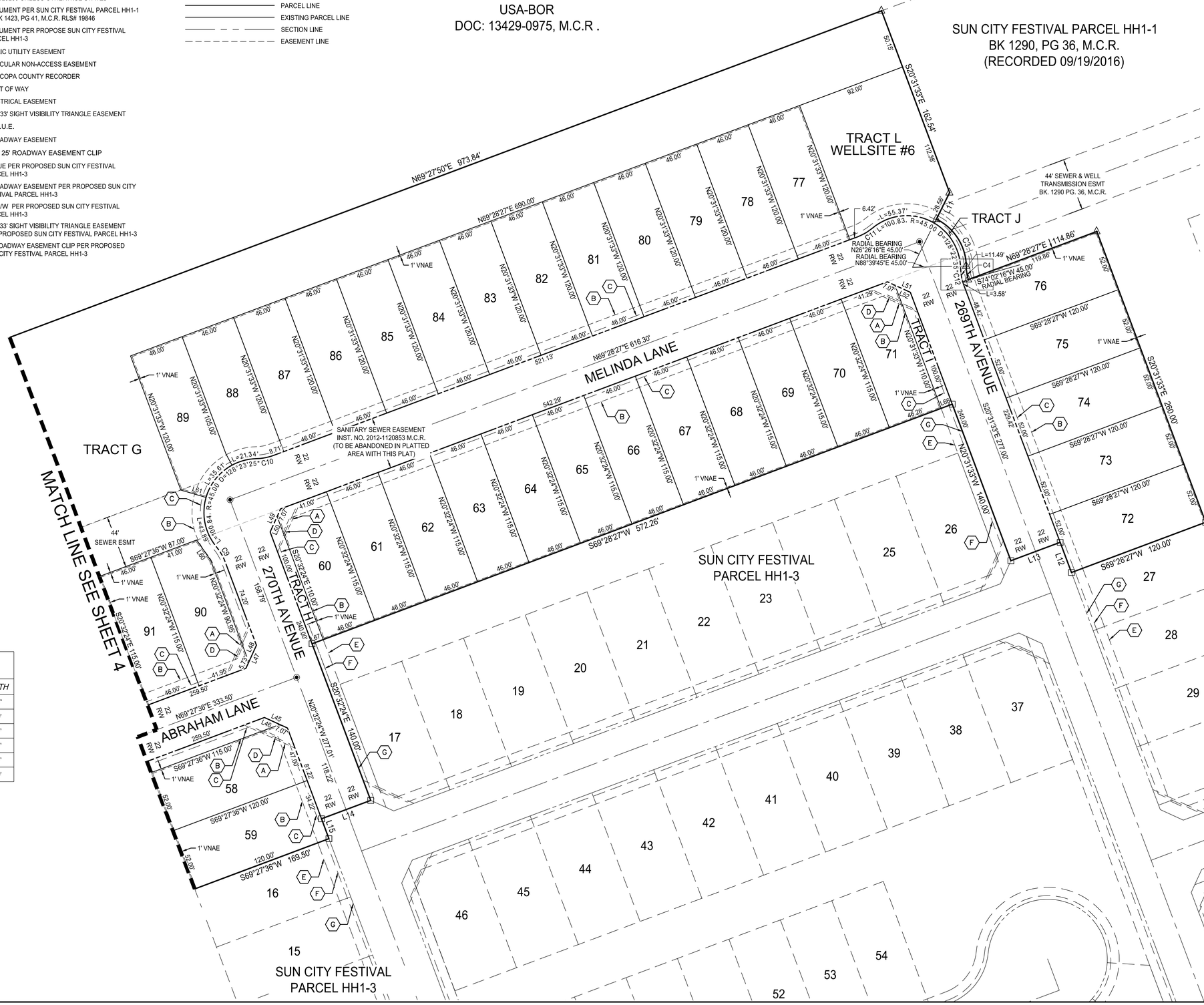
503-84-007J
USA-BOR
DOC: 13429-0975, M.C.R .

SUN CITY FESTIVAL PARCEL HH1-1
BK 1290, PG 36, M.C.R.
(RECORDED 09/19/2016)

SCALE: 1"= 40'
40 20 0 40



DETAIL B



LINE TABLE

NO.	BEARING	LENGTH
L11	S26°26'16"W	24.78'
L12	N20°31'33"W	27.00'
L13	S69°28'27"W	44.00'
L14	S69°27'36"W	44.00'
L15	S20°32'24"E	17.78'
L45	S65°32'24"E	21.21'
L46	S65°32'24"E	14.14'
L47	N24°27'36"E	21.21'
L48	N24°27'36"E	15.49'
L49	N24°28'02"E	21.21'
L50	N24°28'02"E	14.14'
L51	S65°31'33"E	21.21'
L52	S65°31'33"E	14.14'
L60	N34°34'34"W	20.62'
L61	N73°50'53"W	21.97'
L66	S69°28'27"W	10.00'
L67	S69°28'27"W	10.00'

CURVE TABLE

NO.	DELTA	RADIUS	LENGTH
C3	62°13'29"	45.00'	48.87'
C4	14°37'29"	45.00'	11.49'
C9	19°11'17"	45.00'	15.07'
C10	19°11'16"	45.00'	15.07'
C11	19°11'17"	45.00'	15.07'
C12	14°37'29"	45.00'	11.49'

Call at least two full working days before you begin excavation.
ARIZONA 811
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TITLE
SUN CITY FESTIVAL
PARCEL HH1-4
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ENGINEER INFORMATION:

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COS PERMITTING APPROVED SEAL

COS ENGINEERING APPROVED SEAL

SUBMITTAL

(POSSIBLE AS-BUILT SEAL)

DESIGN SEAL

Expires 6/30/23
REGISTERED LAND SURVEYOR
CERTIFICATE NO.
29259
KENNETH P.
CONVERSE
ARIZONA U.S.A.
7/21/21

ORIGINAL PLAN DATE: Jul/2021

LATEST REVISION DATE: -

PROJECT NUMBER: 4151093000

SHEET NUMBER: 6 of 6

COS PLAN TRACKING #

PLZS-21-00109

COS PROJECT #

1402

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
CERTIFICATE OF ASSURED WATER SUPPLY

This is to certify that

Pulte Home Corporation, a Michigan corporation, owner,

has met the requirements of A.R.S. §§ 45-576 and the applicable regulations, and

By powers vested in the Director of the Arizona Department of Water Resources by the State of Arizona, and subject to the conditions contained in the applicable regulations,

Is issued this Certificate of Assured Water Supply for

Sun City Festival Parcels L 1-2, HH, II, & JJ
Township 4 North, Range 4 West, Sections 13, 22, 23, & 24
GSRB&M Maricopa County, PHOENIX Active Management Area

Sufficient water of adequate quality will be continuously available to satisfy the water demand of the referenced subdivision for at least one hundred years. The referenced subdivision consists of **608 lots** as described in the preliminary plat on file with the Department, and has an estimated water demand of **646.81 acre-feet per year.** The subdivision will be served **groundwater** by **Town of Buckeye.**

This Certificate is invalid as to any entity not named above.
This Certificate may be assigned pursuant to A.A.C. R12-15-705.

Certificate Number: 27-700535.0000

ARIZONA DEPARTMENT OF WATER RESOURCES

Assistant Director

25 FEB 2009
Date

TYPE A CERTIFICATE

JANICE K. BREWER
Governor

HERBERT R. GUENTHEI
Director

ARIZONA DEPARTMENT OF WATER RESOURCES

3550 North Central Avenue, Second Floor
PHOENIX, ARIZONA 85012-2105
(602) 771-8500

February 6, 2009

VIA CERTIFIED MAIL
Eric Laurin
Coe & Van Loo Consultants, Inc.
3443 N Central Ave
North Rotunda
Phoenix AZ 85012

Re: Certificate of Assured Water Supply
Sun City Festival Parcels L 1-2, HH, II, & JJ
DWR File No. 27-700535.0000

Dear Mr. Laurin:

The Department of Water Resources has determined that the criteria for an Assured Water Supply pursuant to A.R.S. § 45-576 and A.A.C. R12-15-701 *et seq.* have been met, and therefore the Director has decided to issue Assured Water Supply Certificate No.27-700535.0000. Town of Buckeye will provide the water supply to the lots. The source of supply will be groundwater. Based on current information, the Department has determined that the subdivision's total projected demand is 646.81 acre-feet per year for 608 lots, and the groundwater allowance for the 100-year period is 2587.24 acre-feet. The Certificate is attached. The Department suggests you record your Certificate of Assured Water Supply in the appropriate county recorder's office. This will provide you with a permanent public record of the Certificate.

This determination is applicable only to the person or entity specified on the Certificate and for the plat reviewed by the Department. Information used in evaluating this application is available for review in the Department's files. Please contact us if questions arise.

Pursuant to A.R.S. § 41-1092.03, the Department is notifying you that the Director's determination and decision to issue the Certificate is an appealable agency action. You are entitled to appeal this action. If you wish to appeal this action, you must file a written appeal within thirty (30) days from receipt of this letter. I am providing you with a summary of the appeal process and an appeal form, should you elect to pursue this option.

Sincerely,

John Schneeman, Manager
Office of Assured and Adequate Water Supply

JFS/rbo

Enclosures

Cc: Via electronic mail
Cliff Neal, CAGRD
Drew Swieczkowski, Hydrology Division
J. Scott Miller, Director, PHOENIX AMA Division
Rosemary Lopez, OAWS

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.X. PLZS-21-00111 Sun City Festival Parcel K2 and N2 Final Plat
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 4
STAFF LIAISON: Robert Busick, Planner II, rbusick@buckeyeaz.gov, (623) 349-6242	
DEPARTMENT: Development Services	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council) Council to take action on a final plat for Sun City Festival Parcel K2 and N2, generally located southwest of the intersection of Sun Valley Parkway and Canyon Springs Boulevard.

RELEVANT GOALS:
GOAL 3: A Well-Planned Urban Community

ADDITIONAL RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

SUMMARY

PROJECT DESCRIPTION:
The applicant has requested approval of a final plat of Parcel K2 and N2 of Sun City Festival. The 18.87-acre plat is located southwest of Sun Valley Parkway and Canyon Springs Boulevard. It includes 58 single-family residential lots with an overall gross density of 3.07 du/ac. There are three minimum lot sizes proposed throughout the final plat area: 53'x115' lots, 65'x115' lots, and 75'x115' lots. 4.21 acres (22.3%) of landscaped open space, parks, recreation areas, and trails are planned in Parcel K2 and N2. Additional recreational amenities are located in the adjacent units of Sun City Festival. Approximately 3.97 acres of right-of-way are being dedicated to the City of Buckeye through this final plat. The proposal is substantially consistent with the existing development in the area, the preliminary plat approved 12/13/2016 and still valid, the community master plan, and the planning unit plan. Planning, Engineering, Fire, Community Services, and Public Works have all approved this plat. The applicant has obtained an Assured Water Supply certificate from ADWR, per A.R.S. 9-463.01.I.

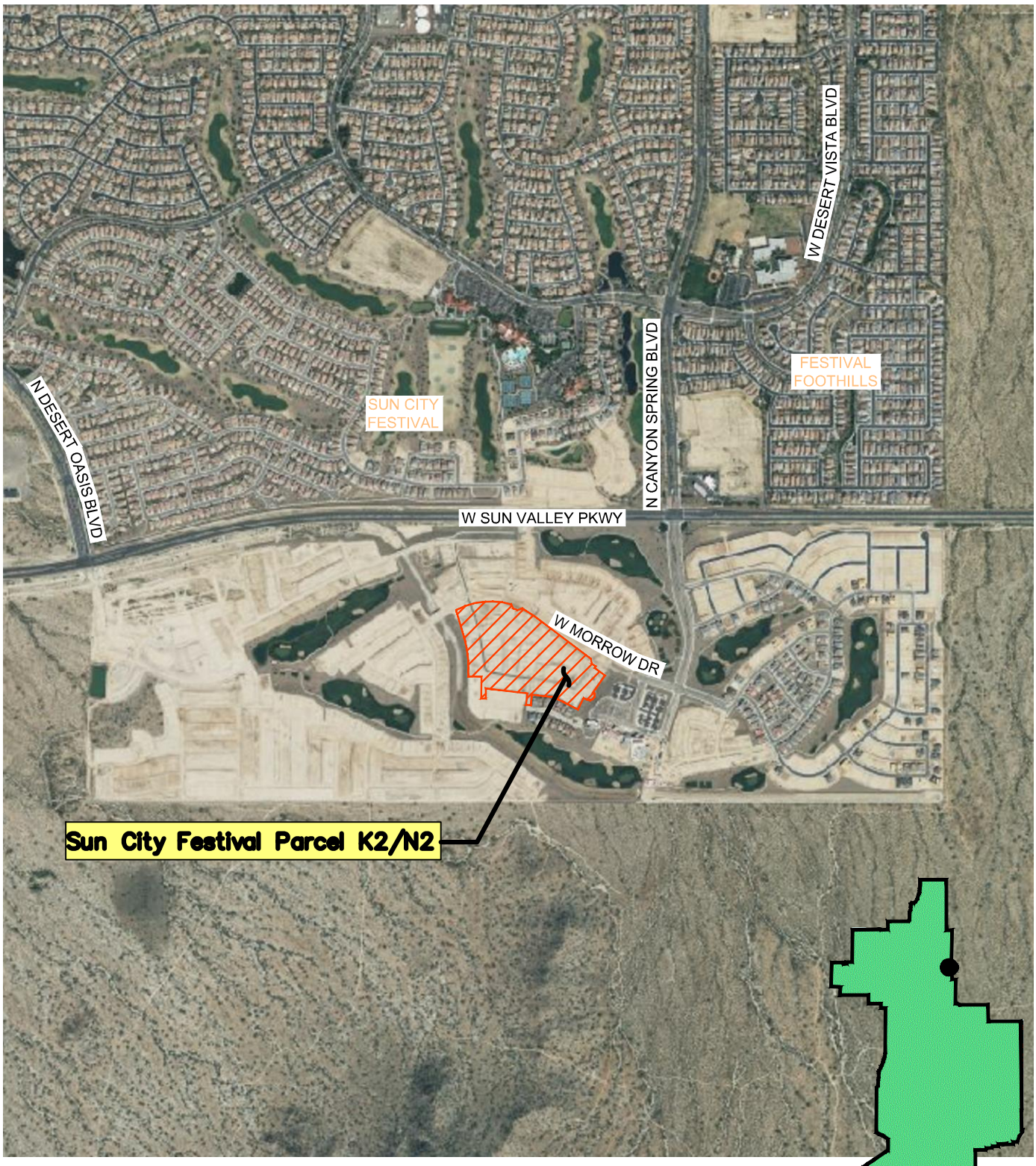
BENEFITS:
The approval of this plat will allow continued development of traditional single-family residences within Sun City Festival.

FUTURE ACTION:
None

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
Vicinity Map
Narrative

Final Plat
Certificate of Assured Water Supply

Vicinity Map



City of Surprise

BUCKEYE, AZ

SUBJECT SITE

0 0.25 0.5 Miles

N

1408

2nd Submittal

PLZS-21-00111

RECEIVED

JUN 21 2021

CITY OF BUCKEYE by: WD

SUN CITY FESTIVAL
PARCEL K2/N2
FINAL PLAT NARRATIVE

June 15, 2021

Prepared for:

16767 North Perimeter Drive, Suite 100
Scottsdale, Arizona 85260
(480) 391-6000

Prepared by:

19621 N 23rd Drive, Suite 150
Phoenix, AZ 85027
(602) 977-8075

Cardno Project No. 4201456000

Application Request

This application requests the approval of a Final Plat for Sun City Festival Parcel K2/N2, a portion of the Festival Ranch Master Plan. The final plat for Sun City Festival Parcel K2/N2 contains 18.87 acres (gross) and 58 lots. The preliminary plat for Parcel K2/N2 was approved by the City of Buckeye on December 13, 2016 as part of the Preliminary Plat for Sun City Festival Planning Area 2.

Introduction

The Festival Ranch Community Master Plan (CMP) is comprised of approximately 10,105 acres. The property is located in the northern portion of the City of Buckeye. It is bounded on the west by the Hassayampa River and by State Lands on the north and east. The south edge of the property is partially bisected by the Sun Valley Parkway and is bounded by a small portion of the White Tank Mountains, State Lands, and private landowners.

The original Festival Ranch CMP consisted of six Planning Units, identified as Planning Units A through F. Portions of the original Planning Units E and F are presently identified as Planning Unit One and Planning Area 2 of the Sun City Festival Development. This final plat is a portion of Sun City Festival Planning Area 2. The majority of residential development, approximately 456 acres, for Sun City Festival Planning Area 2, is proposed as an active adult community.

Within Sun City Festival, there are numerous parcels identified with residential, recreation, retail, mixed use, worship and school designations. This final plat submittal includes Parcel K2/N2 of Planning Area 2. This parcel will be developed as detached, single-family residential parcels with an overall gross density of 3.13 du/ac. The remaining parcels within Planning Area 2 will be subsequently submitted, under separate submittal packages, as they are developed per the City of Buckeye requirements.

Location

This final plat consists of portions of the southwest quarter of Section 25 of Township 4 North, Range 4 West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona. The site is located within the City of Buckeye south of Sun Valley Parkway, and east of Desert Oasis Boulevard.

Zoning

The property is zoned Planned Community per the Festival Ranch CMP as approved by City Council in September of 2000.

Proposed Development

The portion of Sun City Festival Planning Area 2 covered in this Final Plat will be developed in one phase identified as Sun City Festival Parcel K2/N2.

As previously mentioned, the proposed K2/N2 Final Plat boundary is covered within the approved Preliminary Plat for Sun City Festival Planning Area 2 entitlement area. The following is the proposed K2/N2 Final Plat lot breakdown per the associated preliminary plat:

Preliminary Plat for Sun City Festival Planning Area 2 - Approved December 13, 2016:

- Sun City Festival Parcel K2/N2 Final Plat- Lots 1-58

Sun City Festival Parcel K2/N2 is planned to be developed as detached, single family residential parcels with three typical residential lot widths of 53-feet, 65-feet, and 75-feet. All lots will have a minimum depth of 115 feet. The gross density of the Parcel K2/N2 is 3.07 du/ac. The approved Preliminary Plat provides for a gross density of 2.62 du/ac average for the entire Preliminary Plat.

The gross area of the Sun City Festival Parcel K2/N2 Final Plat is 18.87 acres. The K2/N2 Final Plat open space total acreage is 4.21 acres, which represents 22.3% distribution of the gross area.

Street Improvements

Parcel K2/N2 is bordered by Morrow Drive to the north. All residential streets have a 44-foot right of way and will be 32 ft wide from back-of-curb to back-of-curb. All local streets shall conform to the street sections provided in the Festival Ranch CMP as approved by City Council in September of 2000.

Utilities

Parcel K2/N2 will construct 8" sewer lines to serve the development and will ultimately tie into the existing 8" sewer line in 265th Drive.

Parcel K2/N2 will connect to existing water mains located in Parcel 265th Drive, Salina Drive, and 263rd Avenue. These connections will provide a looped water system throughout K2/N2.

There are no other existing utilities in this portion of Planning Unit One, which are incorporated within this final plat.

Communications

Cox Communications and Zona Communications can provide video, high-speed data and telephone services to Sun City Festival. Both companies are currently constructing or have facilities within Sun City Festival to serve this project. Both Cox and Zona Communications are aware of the development timeline for Sun City Festival and they have both expressed their ability to provide communications services in accordance with the project's needs.

Natural Gas

Pulte Homes has negotiated an agreement with Southwest Gas to provide natural gas service to Sun City Festival.

Electricity

Pulte Homes has worked with Arizona Public Service (APS) to provide electrical service to Sun City Festival. APS has installed a 69-kV, overhead transmission line that runs from approximately Bell Road and Cotton Lane west along the Salt River Project corridor to service the project. Pulte Homes and APS have also constructed a substation on the Sun City Festival property to service the project. The delivery of electrical service will be timed to meet the project's needs.

Open Space and Recreation

Sun City Festival residents have access to the amenities located throughout the community. These amenities include a 31,000 sq. ft. recreation center, a 25,000 sq. ft. recreation center, the ASU Lifelong Learning Academy, a 27 hole golf course, fitness center, pickle ball, bocce ball, basketball, tennis, softball, wood shop, and crafts studio.

Offsite & Onsite Stormwater Control

A master study of the storm water system was developed by Wood Patel & Associates. Parcel K2/N2 has been designed in accordance with the study (dated August 3, 2017).

Water Supply and Distribution

A study of the water distribution system to serve the area was prepared by Wilson Engineers (September, 2016).

The Sun City Festival potable water infrastructure consists of a system of water distribution mains, booster pump stations, pressure control valves, wells and storage tanks.

The number of wells has been determined based on the maximum day demand and coincident irrigation and construction water use demands. Three groundwater wells will be in operation. The three wells currently serving Sun City Festival are of sufficient size and capacity to serve Parcel K2/N2. Well #1 is in Parcel E1, Well #2 is within the confines of the water campus and Well #3, is within Parcel N1.

The booster pump stations have been designed to meet the greater of the maximum day demand plus fire flow or the peak hour demand. The storage tanks will supplement the source supply when demands exceed maximum day demand (i.e. peak hour and fire flow). Initial storage requirements are based on a four-hour commercial fire flow of maximum intensity and 50% maximum day demand equalization and emergency reserve.

The parcels currently being developed are located within the City of Buckeye pressure zone 7 and have been found to have adequate pressure and supply to serve the associated parcels.

Wastewater Collection and Treatment

A study of the wastewater collection and treatment system to serve this area was prepared by Wilson Engineers (September, 2016).

Based on the natural topography, the wastewater collection infrastructure for Parcel K2/N2 will flow to the existing 8" sewer located in 265th Drive. The sewer follows street alignments and/or sewer easements, and has been internalized in the residential streets where possible. The trunk sewer discharges to the Festival Ranch Water Reclamation Facility (WRF), located at the southwest corner of the development, south of Sun Valley Parkway.

RECEIVED
22 JUL 2021
CITY OF BUCKEYE by: RB

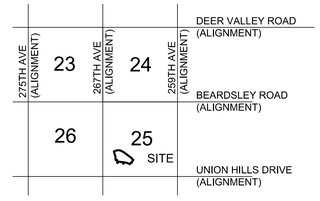
PLZS 21 00111

3rd Submittal

FINAL PLAT OF

"SUN CITY FESTIVAL - PARCEL K2 & N2"-
A REPLAT OF PARCEL 7 OF SUN CITY FESTIVAL - PARCEL E2 AS RECORDED IN BOOK 1579, PAGE 14, M.C.R. & A REPLAT OF TRACT D OF SUN CITY FESTIVAL - PARCEL B2 AS RECORDED IN BOOK 1505, PAGE 37, M.C.R .

LOCATED IN THE SOUTHWEST QUARTER OF SECTION 25
TOWNSHIP 4 NORTH, RANGE 4 WEST OF THE GILA AND SALT RIVER MERIDIAN,
CITY OF BUCKEYE, COUNTY OF MARICOPA, STATE OF ARIZONA
DEVELOPER: PULTE HOME COMPANY, LLC



T4N, R4W G. & S.R.B&M.

VICINITY MAP

NOT TO SCALE

SURVEYOR

KENNETH CONVERSE, R.L.S.
T2 UTILITY ENGINEERS
19621 N. 23RD DRIVE
SUITE 150
PHOENIX, AZ 85027
PHONE: (602) 977-8000
FAX: (602) 977-8099
Kenneth.converse@t2ue.com

ENGINEER

DANIEL J. POTTINGER, P.E.
CARDNO, INC.
19621 N. 23RD DRIVE
SUITE 150
PHOENIX, AZ 85027
PHONE: (602) 977-8000
FAX: (602) 977-8099
Daniel.Pottinger@cardno.com

OWNER/DEVELOPER

LAURA MEYERS
PULTE HOME COMPANY, LLC
16767 N. PERIMETER DRIVE,
SUITE 100
SCOTTSDALE, AZ 85260
PHONE: (480) 391-6000
FAX: (480) 391-6100
Laura.Meyers@pultegroup.com

NOTES

1. EXCEPT FOR CONSTRUCTION AND IMPROVEMENTS BY GOVERNMENTAL ENTITIES AND CERTIFIED PUBLIC UTILITIES, CONSTRUCTION AND IMPROVEMENTS WITHIN PUBLIC UTILITY EASEMENTS SHALL BE LIMITED TO ONLY THE FOLLOWING:
   A. WOOD, WIRE, OR REMOVABLE SECTION TYPE FENCING.
   B. CONSTRUCTION, STRUCTURES, MAILBOXES OR BUILDINGS EXPRESSLY APPROVED IN WRITING BY THE CITY OF BUCKEYE AND ALL DRY PUBLIC UTILITIES WHICH USE OR MAY USE THE EASEMENT.
   C. LANDSCAPING
2. ALL NEW OR RELOCATED UTILITIES ARE TO BE INSTALLED UNDERGROUND EXCEPT POWER LINES 69KV AND LARGER.
3. NO STRUCTURES OF ANY KIND MAY BE CONSTRUCTED, NOR ANY VEGETATION BE PLANTED OR ALLOWED TO GROW WITHIN A DRAINAGE EASEMENT OR TRACT, WHICH WOULD IMPEDE THE FLOW OF WATER OVER UNDER, OR THROUGH THE DRAINAGE EASEMENT OR TRACT.
4. THE SUN CITY FESTIVAL COMMUNITY ASSOCIATION SHALL HAVE THE RESPONSIBILITY OF MAINTAINING ALL COMMON AREAS NOTED AS TRACTS, LANDSCAPED AREAS AND DRAINAGE FACILITIES IN ACCORDANCE WITH THE APPROVED PLANS. THIS RESPONSIBILITY INCLUDES ALL ADJACENT RIGHTS-OF-WAY.
5. THE LAND DESCRIBED IN THIS FINAL PLAT IS LOCATED WITHIN THE CITY OF BUCKEYE SERVICE AREA. CERTIFICATE OF ASSURED 100 YEAR WATER SUPPLY NO. 27-700961.0000, UNDER A.R.S. 45-576, AND THE APPLICABLE REGULATIONS, HAS BEEN ISSUED.
6. AN 18" REBAR , 1/2" DIAMETER, WITH L.S. CAP WILL BE SET AT ALL BOUNDARY CORNERS, LOT CORNERS, POINTS OF CURVATURE, POINTS OF TANGENCY, AND ANGLE POINTS AT COMPLETION OF MASS GRADING.
7. IN EASEMENTS FOR EXCLUSIVE USE OF WATER, SANITARY SEWER, RECLAIMED WATER OR ANY COMBINATION THEREOF, ONLY GROUNDCOVER AND BUSHES ARE ALLOWED TO BE PLANTED WITHIN THE EASEMENT AREA, NO TREES OR BOULDERS ARE ALLOWED.
8. VISIBILITY RESTRICTIONS: ANY OBJECT, WALL, STRUCTURE, MOUND OR LANDSCAPING (MATURE) OVER 24" IN HEIGHT IS NOT ALLOWED WITHIN THE VISIBILITY EASEMENT. TREE CANOPIES OVERHANGING THE EASEMENT, SHALL BE KEPT TRIMMED TO A HEIGHT NO LESS THAN 7'. NO TREES ARE TO BE INSTALLED WITHIN 6' OF ANY FIRE HYDRANT. NO BOULDERS ARE TO BE INSTALLED IN THE V.N.A.E., P.U.E., R/W, OR WITHIN 6' OF THE BACK OF CURB. ANY VEGETATION VIOLATING THESE RESTRICTIONS INCLUDING TREES, SHRUBS, BUSHES OR GROUND COVER MAY BE REMOVED FOR ANY REASON IF DEEMED NECESSARY BY THE CITY OF BUCKEYE.
9. THE MAINTENANCE OF ALL LANDSCAPING WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE THE RESPONSIBILITY OF THE SUN CITY FESTIVAL COMMUNITY ASSOCIATION OR ABUTTING PROPERTY OWNER IN ACCORDANCE WITH THE DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS FOR "SUN CITY FESTIVAL" PREVIOUSLY RECORDED AS INSTRUMENT NO. 2005-1720347 AND ANY SUPPLEMENTAL DECLARATIONS RECORDED PURSUANT THERETO (COLLECTIVELY THE "C.C. & R.'S").
10. ALL MEASUREMENTS ARE THE SAME AS RECORD UNLESS OTHERWISE NOTED. ALL FOUND MONUMENTS ARE WITHIN ACCEPTABLE TOLERANCES PER ARIZONA BOUNDARY SURVEY MINIMUM STANDARDS, UNLESS OTHERWISE NOTED.
11. THE PROPERTY OWNERS, OR ANY SUBSEQUENT OWNERS SHALL NOT PROCEED WITH ANY ON SITE GRADING OR EXCAVATION WITHOUT FIRST OBTAINING A PERMIT FROM THE CITY OF BUCKEYE.
12. IN ACCORDANCE WITH ARS 9-461.07, THE CITY OF BUCKEYE HAS DETERMINED THAT ALL DEDICATIONS OCCURRING WITH THIS PLAT ARE IN CONFORMANCE WITH THE GENERAL PLAN.
13. PURSUANT TO A.R.S. 42-11102, THE CITY OF BUCKEYE, A POLITICAL SUBDIVISION OF THE STATE OF ARIZONA, IS EXEMPT FROM ALL TAXES AND ASSESSMENTS BASED ON ASSESSED VALUE EXCEPT FOR SPECIAL DISTRICTS #14751 AND 14710, WHEN APPLICABLE.
14. IT IS ACKNOWLEDGED THAT THIS PROPERTY WILL BE PART OF A PARKWAY MAINTENANCE INPROVEMENT DISTRICT (MID) AND STREET LIGHT INPROVEMENT DISTRICT (SLID) AT THE TIME THAT IT IS DEVELOPED, IN ACCORDANCE WITH BUCKEYE ORDINANCES 43-05 AND 42-06.

FLOOD ZONE DESIGNATIONS

THE PROPERTY IS LOCATED WITHIN AN AREA DESIGNATED AS SHADED FLOOD ZONE "X" BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO. 04013C1190L & 04013C1170L, WITH A REVISION DATE OF OCTOBER 16, 2013 FOR COMMUNITY NUMBER 040039, IN THE CITY OF BUCKEYE, COUNTY OF MARICOPA, STATE OF ARIZONA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

SHEET INDEX

SHEET 1 - DEDICATIONS, ACKNOWLEDGMENTS, CERTIFICATIONS AND NOTES
SHEET 2 - BOUNDARY SHEET
SHEET 3 - KEY MAP, LOT, TRACT AND RIGHTS-OF-WAY TABLES
SHEET 4 - 6 - FINAL PLAT PLAN SHEETS

BASIS OF BEARINGS

BEARINGS SHOWN HEREON ARE BASED ON THE EAST-WEST MID SECTION LINE OF SECTION 25, TOWNSHIP 4 NORTH RANGE 4 WEST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA HOLDING A BEARING OF N89°35'39"W

GROSS SITE AREA

822,108 SQUARE FEET OR 18.87 ACRES MORE OR LESS.

LIMITATIONS ON THE ISSUANCE OF CERTIFICATES OF OCCUPANCY

THE LOTS AND PARCELS CREATED, DEFINED, OR DEPICTED ON THIS PLAT ARE SUBJECT TO A LIMITATION ON THE ISSUANCE OF CERTIFICATES OF OCCUPANCY. NO PERSON MAY OCCUPY A BUILDING OR STRUCTURE ERECTED ON ANY LOT OR PARCEL CREATED, DEFINED OR DEPICTED ON THIS PLAT UNTIL THE CITY OF BUCKEYE HAS ISSUED A CERTIFICATE OF OCCUPANCY. THE CITY WILL NOT ISSUE A CERTIFICATE OF OCCUPANCY UNTIL STREET, UTILITY, DRAINAGE AND OTHER IMPROVEMENTS RELATING TO THIS PLAT AS REQUIRED BY THE CITY'S SUBDIVISION ORDINANCE ARE COMPLETED TO CITY OF BUCKEYE STANDARDS. THIS LIMITATION MAY BE RELEASED IN PHASES, A PROSPECTIVE BUYER OF A LOT OR PARCEL CREATED, DEFINED, OR DEPICTED ON THIS PLAT SHOULD REQUIRE THE SELLER TO PRODUCE A RECORDED RELEASE OF THIS LIMITATION ON THE ISSUANCE OF CERTIFICATES OF OCCUPANCY SIGNED BY THE CITY OF BUCKEYE BEFORE PURCHASING AND/OR CLOSING ESCROW ON THAT LOT OR PARCEL. FAILURE TO OBTAIN SUCH A RELEASE OF THIS LIMITATION MAY RESULT IN THE BUYER BEING PROHIBITED FROM OCCUPYING A HOUSE OR OTHER STRUCTURE BUILT ON THE LOT OR PARCEL. THIS LIMITATION IS SUBJECT TO THE REASONABLE DISCRETION BY THE CITY AS TO THE COMPLETION STATUS OF OTHER IMPROVEMENTS SUCH AS LANDSCAPING AND PUNCH LIST ITEMS THAT ARE IN PROCESS, OPERATIONAL AND SUBSTANTIALLY COMPLETE. THE HOMEBUILDER SHALL BE REQUIRED TO DISCLOSE THIS STATEMENT OF LIMITATION ON THE ISSUANCE OF CERTIFICATES OF OCCUPANCY TO A PROSPECTIVE BUYER PRIOR TO THE BUYER PURCHASING AND CLOSING ESCROW ON ANY BUILDING OR STRUCTURE ON ANY LOT OR PARCEL.

CONSENT OF LIENHOLDERS

KNOW ALL PERSONS BY THESE PRESENTS:

THE UNDERSIGNED, AS TRUSTEE UNDER THAT CERTAIN DEED OF TRUST RECORDED MAY 18, 2004, AS INSTRUMENT NO. 2004-549496 OFFICIAL RECORDS OF MARICOPA COUNTY, ARIZONA, AND ASSIGNED TO MENG SHIANG IN PURSUANT TO THE CERTAIN ASSIGNMENT OF DEED OF TRUST RECORDED NOVEMBER 2, 2010 IN INSTRUMENT NO. 2010-0957274 HEREBY CONSENT TO AND JOINS IN THAT CERTAIN FINAL PLAT OF "SUN CITY FESTIVAL - PARCEL K2 & N2", AND AGREES THAT SUCH PLAT AND THE EASEMENTS SHOWN THEREON SHALL BE SUPERIOR TO, AND HAVE PRIORITY OVER, THE ABOVE DESCRIBED DEED OF TRUST.

PGP TITLE, INC., A NEVADA CORPORATION, AS SUCCESSOR IN INTEREST TO SUN CITY TITLE AGENCY, DBA SUN TITLE AGENCY, SUCCESSOR TRUSTEE UNDER THAT CERTAIN PERFORMANCE DEED OF TRUST RECORDED MAY 18, 2004.

BY: _____

NAME: _____ DATE: _____

TITLE: _____

ACKNOWLEDGMENT

STATE OF TEXAS)
) SS
COUNTY OF DALLAS)

THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME ON _____

BY: _____ .

OF _____

FOR AND ON BEHALF THEREOF.

_____
NOTARY PUBLIC

_____
MY COMMISSION EXPIRES:

HOMEOWNERS ASSOCIATION RATIFICATION

KNOW ALL PERSONS BY THESE PRESENTS:

THE UNDERSIGNED, DULY AUTHORIZED OF THE SUN CITY FESTIVAL COMMUNITY ASSOCIATION, AN ARIZONA NON-PROFIT ORGANIZATION, HEREBY RATIFIES THE RECORDATION OF THIS FINAL PLAT OF "SUN CITY FESTIVAL - PARCEL K2 & N2" AND ACKNOWLEDGES THE RESPONSIBILITIES SET FORTH THEREIN.

SUN CITY FESTIVAL COMMUNITY ASSOCIATION,
AN ARIZONA NON-PROFIT ORGANIZATION

BY:_____ DATE:_____

ITS: _____

ACKNOWLEDGMENT

STATE OF ARIZONA)
) SS
COUNTY OF MARICOPA)

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS_____DAY OF_____, 20____, BY_____,
THE_____ OF SUN CITY FESTIVAL COMMUNITY ASSOCIATION, AN ARIZONA NON-PROFIT ORGANIZATION, FOR AND ON BEHALF THEREOF.

_____
NOTARY PUBLIC

_____
MY COMMISSION EXPIRES:

APPROVAL

APPROVED BY THE COUNCIL OF THE CITY OF BUCKEYE ON

THIS _____ DAY OF_____20____.

BY: _____
MAYOR

ATTEST: _____
CITY CLERK

I CERTIFY THAT ALL ENGINEERING CONDITIONS AND REQUIREMENTS HAVE BEEN COMPLIED WITH.

BY: _____
BUCKEYE CITY ENGINEER DATE

BY: _____
DEVELOPMENT SERVICES DIRECTOR DATE

CERTIFICATION

I, KENNETH CONVERSE, HEREBY CERTIFY THAT I AM A REGISTERED LAND SURVEYOR IN THE STATE OF ARIZONA, THAT THIS PLAT CONSISTING OF SIX SHEETS CORRECTLY REPRESENTS A BOUNDARY SURVEY MADE BY ME DURING THE MONTH OF JULY, 2021. THAT THE SURVEY IS TRUE AND CORRECT AS SHOWN, THAT ALL MONUMENTS EXIST OR WILL BE SET AND, THAT THEIR POSITIONS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

_____
KENNETH CONVERSE, R.L.S.
ARIZONA REGISTERED LAND SURVEYOR #29259

DEDICATION

STATE OF ARIZONA)
) SS
COUNTY OF MARICOPA)

KNOW ALL PERSONS BY THESE PRESENTS:

THAT PULTE HOME COMPANY, LLC, A MICHIGAN LIMITED LIABILITY COMPANY, ("OWNER"), HAS SUBDIVIDED UNDER THE NAME OF "SUN CITY FESTIVAL - PARCEL K2 & N2", A SUBDIVISION LOCATED IN THE SOUTHWEST QUARTER OF SECTION 25, TOWNSHIP 4 NORTH, RANGE 4 WEST, OF THE GILA AND SALT RIVER MERIDIAN, CITY OF BUCKEYE, COUNTY OF MARICOPA, STATE OF ARIZONA, AS SHOWN AND PLATTED HEREON AND DOES HEREBY PUBLISH THIS PLAT AS AND FOR THE PLAT OF "SUN CITY FESTIVAL - PARCEL K2 & N2" AND DECLARES THAT THIS PLAT SETS FORTH THE LOCATION AND GIVES THE DIMENSIONS OF EACH LOT, TRACT, STREET, AND EASEMENT CONSTITUTING SAME, AND THAT EACH LOT, TRACT, STREET, AND EASEMENT SHALL BE KNOWN BY THE NUMBER, LETTER, AND/OR NAME GIVEN TO EACH RESPECTIVELY AS SHOWN ON THIS PLAT.

OWNER HEREBY DEDICATES TO THE CITY OF BUCKEYE FEE TITLE TO ALL PUBLIC RIGHT-OF-WAYS AS SHOWN ON THE PLAT.

OWNER HEREBY GRANTS TO THE CITY OF BUCKEYE NON-EXCLUSIVE EASEMENTS OVER, UPON, AND ACROSS THE AREAS DESIGNATED AS "ROADWAY EASEMENT" AS SHOWN ON THE PLAT FOR THE PURPOSE OF INSTALLING, CONSTRUCTING, MAINTAINING, REPAIRING, REPLACING AND UTILIZING STREETS AS PER THE CITY OF BUCKEYE ENGINEERING DESIGN STANDARDS.

OWNER HEREBY GRANTS TO THE CITY OF BUCKEYE A NON-EXCLUSIVE EASEMENT OVER, UPON AND ACROSS THE AREAS DESIGNATED AS "PUBLIC UTILITY EASEMENT" AS SHOWN ON THE PLAT FOR THE PURPOSE OF INSTALLING, CONSTRUCTING, MAINTAINING, REPAIRING, REPLACING AND UTILIZING PUBLIC UTILITIES.

OWNER HEREBY GRANTS TO THE CITY OF BUCKEYE A NON-EXCLUSIVE EASEMENT OVER, UPON AND ACROSS THE AREAS DESIGNATED AS "SIGHT VISIBILITY TRIANGLE EASEMENT" FOR THE PURPOSE OF ENSURING THAT THESE AREAS REMAIN FREE OF SIGHT VISIBILITY OBSTRUCTIONS AS PER THE ENGINEERING DESIGN STANDARDS.

OWNER HEREBY GRANTS TO THE CITY OF BUCKEYE AND THE SUN CITY FESTIVAL COMMUNITY ASSOCIATION A NON-EXCLUSIVE EASEMENT OVER, UPON, UNDER AND ACROSS THE AREAS DESIGNATED AS "VEHICULAR NON-ACCESS EASEMENT" FOR THE PURPOSE OF PROHIBITING VEHICULAR ACCESS ACROSS SAID AREAS.

THE MAINTENANCE OF LANDSCAPING WITHIN THE OPEN SPACES, LANDSCAPED TRACTS, RETENTION BASINS AND PARKS SHALL BE THE RESPONSIBILITY OF THE OWNER OR THE ASSOCIATION FORMED BY THE OWNER.

THE MAINTENANCE OF LANDSCAPING WITHIN THE ADJACENT PUBLIC RIGHT-OF-WAYS, INCLUDING; LANDSCAPED MEDIANS WITHIN COLLECTORS AND LOCAL STREETS AND LANDSCAPED AREAS BETWEEN THE CURB AND THE DETACHED SIDEWALK, SHALL BE THE RESPONSIBILITY OF THE ADJACENT PROPERTY OWNER OR THE PROPERTY ASSOCIATION FORMED BY THE ADJACENT PROPERTY.

TRACTS "A" THROUGH "E" ARE HEREBY DECLARED AS COMMON AREA FOR THE PURPOSES SHOWN AND WILL BE OWNED AND MAINTAINED BY THE SUN CITY FESTIVAL COMMUNITY ASSOCIATION.

PARCEL 7 IS RETAINED FOR FUTURE RESIDENTIAL DEVELOPMENT.

PARCEL 8 IS RETAINED FOR FUTURE RIGHT OF WAY.

THE EASEMENTS GRANTED WITHIN THIS DEDICATION ARE PERMANENT AND PERPETUAL AND SHALL RUN WITH THE LAND AND BE BINDING UPON OWNER AND ITS HEIRS, ASSIGNS, AND SUCCESSORS IN INTEREST TO THIS PLAT OR ANY PARCEL OR LOT THEREOF.

IN WITNESS WHEREOF THAT PULTE HOME COMPANY, LLC, A MICHIGAN LIMITED LIABILITY COMPANY, ("OWNER"), HAS HEREUNTO CAUSED ITS CORPORATE NAME TO BE SIGNED AND ITS CORPORATE SEAL TO BE AFFIXED BY THE UNDERSIGNED, DULY AUTHORIZED OFFICER

THIS_____ DAY OF _____, 20____.

BY: PULTE HOME COMPANY, LLC, A MICHIGAN LIMITED LIABILITY COMPANY

BY: _____.

ITS: _____.

ACKNOWLEDGMENT

STATE OF ARIZONA)
) SS
COUNTY OF MARICOPA)

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS_____DAY OF_____, 20____, BY_____,
THE_____ OF PULTE HOME COMPANY, LLC, A MICHIGAN LIMITED LIABILITY COMPANY, THE SUCCESSOR UPON THE CONVERSION OF PULTE HOME CORPORATION, A MICHIGAN CORPORATION, FOR AND ON BEHALF THEREOF.

_____
NOTARY PUBLIC

_____
MY COMMISSION EXPIRES:

Call at least two full working days before you begin excavation.
ARIZONA811 Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

MANAGING ENGINEERING / SURVEYOR: KENNETH CONVERSE, R.L.S.		CHECKED: DJP	CHECKED: KPC
PROJECT COORDINATOR: DANIEL J. POTTINGER, P.E.		DRAFTED: JAW	DRAFTED: TLB
DESIGN LAYOUT: DLP	FIELD SURVEY: MGB		DRAWING SCALES: NTS

PLAN TYPE: FINAL PLAT

ENGINEER INFORMATION:

T2 utility engineers
PHOENIX
19621 N. 23RD DRIVE, SUITE 150,
PHOENIX, AZ 85027
TEL: (602)-977-8000
FAX: (602)-977-8099
www.T2UE.com

Cardno Shaping the Future
PHOENIX
19621 N. 23RD DRIVE, SUITE 150,
PHOENIX, AZ 85027
TEL: (602)-977-8000 FAX: (602)-977-8099
www.cardno.com

PROJECT: SUN CITY FESTIVAL
PARCEL K2 & N2

PROJECT PLAN STICKER

REVISIONS:

1
2
3

COB PERMITTING APPROVED STAMP | COB ENGINEERING APPROVED STAMP

POSSIBLE AS-BUILT SEAL)

DESIGN SEAL

Expires 6/30/22
REGISTERED LAND SURVEYOR
CERTIFICATE NO.
29259
KENNETH P. CONVERSE
Date signed 7/21/21
ARIZONA, U.S.A.

SUBMITTAL

ORIGINAL PLAN DATE: Jul/2021	LATEST REVISION DATE:
PROJECT NUMBER: 4201456000	SHEET NUMBER: 1 OF 6

COB PLAN TRACKING # PLZS 21-00111
COB PERMIT #

WEST QUARTER CORNER OF
SEC. 25, T4N, R4W
EAST QUARTER CORNER OF
SEC. 26, T4N, R4W
FOUND MARICOPA COUNTY HWY DEPT.
BRASS CAP, IN HANDHOLE

(BASIS OF BEARINGS)
N89°35'39"W 2638.32'
5280.12'

EAST QUARTER CORNER OF
SEC. 25, T4N, R4W
FOUND GLO. BRASS CAP,
IN HANDHOLE STAMPED
S25 S30 1915

SCALE: 1"=100'
100' 50' 0 100'

SUN VALLEY PARKWAY

75' R/W
100' R/W
PER BOOK 1358,
PAGE 17, M.C.R.
TRACT D

CENTER OF SEC. 25, T4N, R4W
FOUND PK NAIL AND STRADDLES, NO I.D.
FLUSH

2641.80'

S89°35'39"E 192.57'

150' NON EXCLUSIVE EASEMENT
FOR ROADWAY & UTILITIES
DOC. NO. 86-582071, M.C.R.
DOC. NO. 86-453958, M.C.R.
DOC. NO. 87-194082, M.C.R.
BK. 33 OF MAPS PAGE 3, M.C.R.
BK. 33 OF MAPS PAGE 4, M.C.R.
DOC. NO. 89-247225
DOC. NO. 90-259267

SUN CITY FESTIVAL
PARCEL B2
BK. 1505 PG. 37, M.C.R.

SUN CITY FESTIVAL
PARCEL E2
BK. 1579, PG. 14, M.C.R.

N-S 1/4
SECTION LINE

SUN CITY FESTIVAL
PARCEL D2
BK. 1430 PG. 35, M.C.R.

S00°00'16"E 592.55'

PARCEL 7

SECTION LINE

P.O.B

L=524.82' R=665.00' D=045°13'06"

MORROW DRIVE

S52°48'53"E 656.25'

N00°24'24"E 2640.76'

N16°43'37"W 270.92'

RADIAL BEARING
S28°30'19"E 665.00'

RADIAL BEARING
S16°30'41"W 665.00'

44'
UE & AE
BK. 1358 PG. 17 M.C.R.

44'
UE & AE
BK. 1358 PG. 17, M.C.R.

RADIAL BEARING
S51°24'44"W 50.00'

RADIAL BEARING
N27°37'50"E 50.00'

S35°47'59"W 160.49'

10' PUE
PER BK. 1358, PG.17 M.C.R.

10' PUE
BK. 1358 PG. 17, M.C.R.

3'
RDWY ESMT
BK. 1358 PG. 17 M.C.R.

PARCEL 8

N00°52'38"E 201.82'

N82°55'34"W 383.82'

SUN CITY FESTIVAL
PARCEL M2
BK. 1365 PG. 45, M.C.R.

10' PUE
PER BK. 1365, PG. 45, M.C.R.

3' RDWY ESMT
PER BK. 1365, PG. 45, M.C.R.

1' VNAE
PER BK. 1365, PG. 45, M.C.R.

N62°22'10"W 159.00'

SUN CITY FESTIVAL
PLANNING AREA 2
BK. 1564 PG. 11 M.C.R.

TRACT J

LINE TABLE		
NO.	BEARING	LENGTH
L1	N00°25'22"E	100.00'
L2	S00°24'21"W	76.31'
L3	S38°23'13"E	187.27'
L4	S54°30'26"E	53.89'
L5	S33°35'43"E	70.00'
L6	S56°24'17"W	47.45'
L7	S25°27'01"E	41.23'
L8	S68°51'22"E	44.00'
L9	N67°44'17"E	41.23'
L10	S08°31'31"E	42.92'
L11	S54°12'01"E	44.00'
L12	S35°47'59"W	16.62'
L13	S54°12'01"E	120.00'
L14	N62°22'10"W	32.28'
L15	S27°37'50"W	120.00'
L16	N63°22'20"W	35.06'
L17	N67°02'36"W	64.44'
L18	N83°07'16"W	134.97'

LINE TABLE		
NO.	BEARING	LENGTH
L19	N82°55'34"W	56.00'
L20	S07°04'26"W	100.00'
L21	N82°55'34"W	44.00'
L22	N07°04'26"E	105.00'
L23	S00°52'38"W	94.71'
L24	N89°07'22"W	44.00'
L25	N89°07'22"W	120.00'
L26	N00°52'38"E	63.66'
L27	N01°44'19"W	75.38'
L28	N05°29'02"W	63.78'
L29	N08°56'55"W	63.80'
L30	N12°24'55"W	63.79'
L31	N14°33'54"W	23.93'
L32	N56°24'17"E	47.45'
L33	S20°19'06"E	70.00'
L34	S66°03'57"W	115.00'
L35	N19°02'11"W	43.36'
L36	N00°52'38"E	257.77'

CURVE TABLE			
NO.	DELTA	RADIUS	LENGTH
C1	5°02'25"	665.01'	58.50'
C2	11°33'39"	665.00'	134.18'
C3	156°13'06"	50.00'	136.33'
C4	13°19'10"	665.00'	154.59'
C5	19°11'17"	45.00'	15.07'
C6	43°59'58"	45.00'	34.56'
C7	13°18'56"	735.00'	170.81'

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In Maricopa County: (602) 263-1100

TITLE
SUN CITY FESTIVAL
PARCEL K2 & N2
FINAL PLAT

ENGINEER INFORMATION
Cardno
Shaping the Future
PHOENIX
19621 N. 23RD DRIVE, SUITE 150,
PHOENIX, AZ 85027
TEL:(602)977-8000 FAX:(602)977-8099
www.cardno.com

COB PERMITTING APPROVED SEAL

COB ENGINEERING APPROVED SEAL

SUBMITTAL

(POSSIBLE AS-BUILT SEAL)

DESIGN SEAL
REGISTERED LAND SURVEYOR
CERTIFICATE NO.
29259
KENNETH P.
CONVERSE
ARIZONA U.S.A.
7/21/22

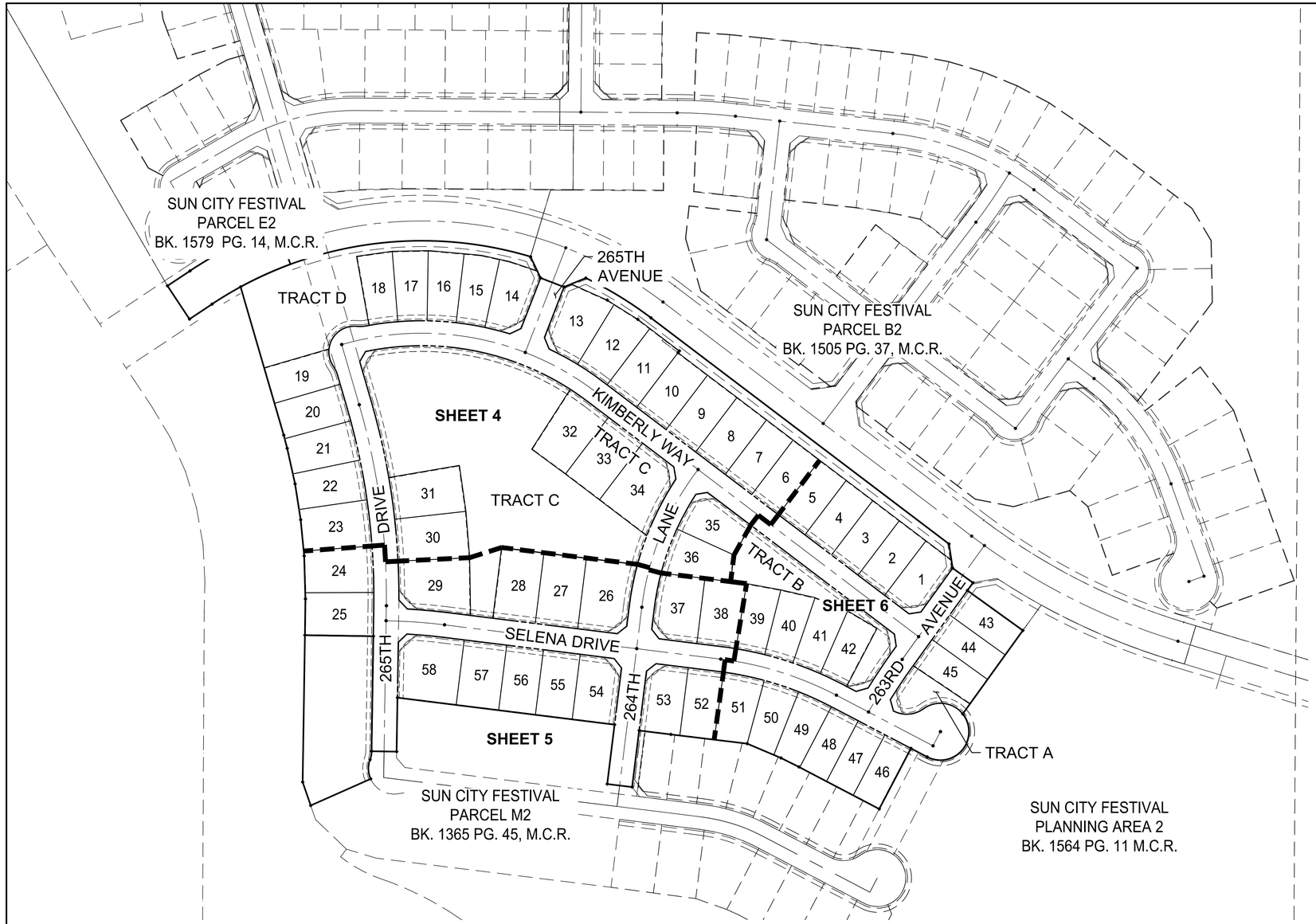
ORIGINAL PLAN DATE
Jul/2021

LATEST REVISION DATE

PROJECT NUMBER
4201456000

SHEET NUMBER
2 of 6

COB PLAN PACKAGE #
PLZS-21-00111
COB PERMIT #



LOT SUMMARY TABLE	
LOT #	*AREA (SF)*
1	7930
2	7020
3	7020
4	7020
5	7020
6	7020
7	7020
8	7800
9	7800
10	7800
11	8060
12	8577
13	9839
14	8255
15	7001
16	6974
17	7033
18	7033
19	7659
20	7882
21	8071
22	8074
23	9317
24	9325

LOT SUMMARY TABLE	
LOT #	*AREA (SF)*
25	9084
26	10641
27	9375
28	9375
29	11326
30	9733
31	9726
32	9817
33	9375
34	11329
35	7893
36	7488
37	9181
38	8232
39	6531
40	6695
41	6788
42	6541
43	6360
44	6360
45	6590
46	6167
47	6360
48	6360

LOT SUMMARY TABLE	
LOT #	*AREA (SF)*
49	6797
50	6702
51	7743
52	7366
53	8522
54	8513
55	7475
56	7475
57	8625
58	12458
TOTAL LOT AREA = 465,553 SQUARE FEET OR 10.69 ACRES MORE OR LESS	

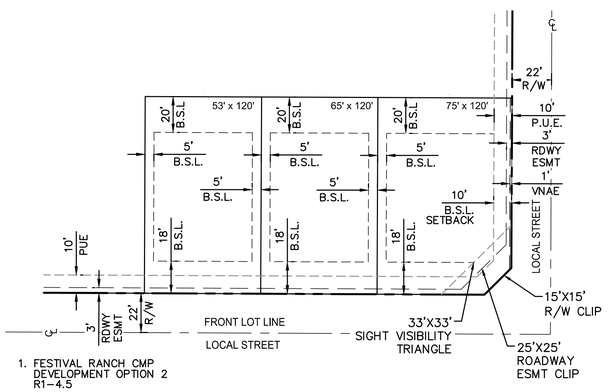
TRACT USE AND AREA TABLE			
TRACT	*PRIMARY USE*	*SQ. FT.*	*ACRE*
TRACT A	LANDSCAPE&DRAINAGE	6017	0.138
TRACT B	LANDSCAPE/DRAINAGE	17750	0.407
TRACT C	LANDSCAPE/DRAINAGE/RETENTION	107772	2.474
TRACT D	LANDSCAPE/DRAINAGE	36337	0.834
TRACT E	LANDSCAPE	15501	0.356
TOTAL TRACT AREA = 183,375 SQUARE FEET OR 4.21 ACRES MORE OR LESS			

PARCEL SUMMARY TABLE		
PARCEL #	*SQ. FT.*	*ACRE*
PARCEL 7	14711	0.338

RIGHT OF WAY AREA TABLE			
TRACT	*PRIMARY USE*	*SQ. FT.*	*ACRE*
263RD DRIVE	RIGHT OF WAY	12076	0.277
264TH LANE (N)	RIGHT-OF-WAY	11589	0.266
264TH LANE (S)	RIGHT-OF-WAY	9020	0.207
265TH AVENUE	RIGHT-OF-WAY	4184	0.096
265TH DRIVE	RIGHT OF WAY	34830	0.800
KIMBERLY WAY	RIGHT-OF-WAY	50184	1.152
SELENA DRIVE	RIGHT-OF-WAY	51297	1.178
TOTAL RIGHT OF WAY AREA = 173,180 SQUARE FEET OR 3.97 ACRES MORE OR LESS			

PARCEL SUMMARY TABLE		
PARCEL #	*SQ. FT.*	*ACRE*
PARCEL 8	32821	0.753

TOTAL SUMMARY TABLE	
TOTAL LOT AREA	465,553 SQ FT, 10.69 AC.
TOTAL TRACT AREA	183,375 SQ FT, 4.21 AC.
TOTAL RIGHT OF WAY AREA	173,180 SQ FT, 3.97 AC
COMBINE TOTAL AREA	822,108 SQ FT, 18.87 AC



TYPICAL LOT DIMENSIONS & BUILDING SETBACK

NO SCALE

LEGEND

⊕	SURVEY CORNER MONUMENT (FOUND AS NOTED)
◎	BRASS CAP MONUMENT (FOUND AS NOTED)
◉	INTERIOR MONUMENT SET BRASS CAP PER MAG DETAIL 120-1 TYPE B
●	CORNER OF THIS SUBDIVISION SET 5/8" REBAR WITH CAP RLS #29259 UNLESS OTHERWISE STATED
P.U.E.	PUBLIC UTILITY EASEMENT
V.N.A.E.	VEHICULAR NON-ACCESS EASEMENT
M.C.R.	MARICOPA COUNTY RECORDER
R/W	RIGHT OF WAY
E.E.	ELECTRICAL EASEMENT

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SCALE: 1"=100'
100' 50' 0 100'

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REGISTERED LAND SURVEYOR
CERTIFICATE NO.
29259
KENNETH P. CONVERSE
7/21/22
Kenneth P. Converse

SUBMITTAL

ORIGINAL PLAN DATE: Jul/2021

LATEST REVISION DATE:

PROJECT NUMBER: 4201456000

SHEET NUMBER: 3 of 6

COB PLAN TRACKING #: PLZS-21-00111

COB PERMIT #:

SUN CITY FESTIVAL
PARCEL E2
BK. 1579, PG. 14, M.C.R.
(03/15/2021)

SUN CITY FESTIVAL
PARCEL B2
BK. 1505 PG. 37, M.C.R.
(01/09/2020)

PARCEL 7

TRACT D

TRACT C

TRACT E

P.O.B.

44' U.E. AND A.E. PER BK. 1358 PG. 17 M.C.R.

35' R/W PER BK. 1579, PG. 14, M.C.R.

35' R/W PER BK. 1505, PG. 37, M.C.R.

22 R/W

265TH DRIVE

265TH AVE

264TH LANE

MORROW DRIVE

KIMBERLY WAY

MATCH LINE SEE SHEET 6

MATCH LINE SEE SHEET 5

L583.32' R=665.00' D=050°15'30"

L170.81' R=735.00' D=013°18'56"

L=134.18' R=665.00' D=011°33'39"

L=468.90' R=503.00' D=053°24'40"

L=411.38'

L=374.33'

L=328.07'

L=256.35'

L=140.83'

L=109.98'

L=53.38'

L=56.62'

L=45.08'

L=6.40'

L=51.22'

L=71.03'

L=37.05'

L=2238.75'

L=264.19' R=300.00' D=050°26'27"

L=215.62'

L=82.26'

L=69.39'

L=211.85'

L=73.89'

L=353.41'

L=137.43'

L=70.73'

L=357.25' R=196.81' D=017°06'11"

L=350.69'

L=81.61'

S82°55'34"E 240.24'

S87°10'53"W 125.79'

N85°46'28"E 120.23'

S82°57'12"E 122.89'

S82°48'53"E 656.25'

S82°48'53"E 602.00'

N52°48'53"W 712.17'

N52°48'59"W 75.00'

N52°48'53"W 104.28'

N63°39'58"W 73.46'

N16°33'54"W 220.94'

N14°33'54"W 23.93'

S73°46'27"W 118.44'

S73°46'27"N 120.00'

N74°53'42"E 119.98'

N78°20'40"E 120.39'

N81°47'38"E 120.39'

S80°14'05"W 125.62'

S83°42'29"W 125.62'

N08°01'43"W 81.49'

N04°40'45"W 81.49'

S65°23'42"E 110.05'

N29°21'24"E 60.12'

N27°02'49"E 46.98'

N21°09'38"E 137.64'

S71°23'32"E 50.98'

S77°37'11"E 51.14'

S84°48'30"E 91.05'

N88°56'39"E 65.44'

N81°55'19"E 63.16'

S65°49'53"E 68.97'

S57°46'41"E 63.29'

S52°48'53"E 91.65'

S20°19'05"E 70.00'

N53°35'43"W 70.00'

RADIAL BEARING S26°30'19"E 665.00'

RADIAL BEARING N16°39'41"E 665.00'

LINE TABLE		
NO.	BEARING	LENGTH
L1	N25°27'01"W	41.23'
L2	S68°51'22"E	44.00'
L3	S67°44'17"W	41.23'
L4	N08°31'31"W	42.92'
L7	S62°22'10"E	32.28'
L10	S82°55'34"E	56.00'
L11	S82°55'34"E	44.00'
L14	N05°29'02"W	63.78'
L15	N08°56'55"W	63.80'
L16	N12°24'55"W	63.79'
L17	N14°33'54"W	23.93'
L18	N30°31'54"E	20.55'
L19	N64°32'01"E	21.80'
L20	S22°14'46"E	21.80'
L21	N09°21'22"W	21.78'
L22	N80°30'07"E	20.58'
L23	S25°27'01"E	27.31'
L24	S25°27'01"E	13.92'
L38	S56°24'17"W	47.45'
L39	N56°24'17"E	47.45'

CURVE TABLE			
NO.	DELTA	RADIUS	LENGTH
C1	19°11'17"	45.00'	15.07'
C2	132°10'49"	45.00'	103.81'
C3	17°38'29"	45.00'	13.86'
C4	5°02'24"	665.00'	58.49'

LEGEND

- SURVEY CORNER MONUMENT (FOUND AS NOTED)
- BRASS CAP MONUMENT (FOUND AS NOTED)
- INTERIOR MONUMENT SET BRASS CAP PER MAG DETAIL 120-1 TYPE B
- CORNER OF THIS SUBDIVISION SET 5/8" REBAR WITH CAP RLS #29259 UNLESS OTHERWISE STATED
- P.U.E. PUBLIC UTILITY EASEMENT
- V.N.A.E. VEHICULAR NON-ACCESS EASEMENT
- M.C.R. MARICOPA COUNTY RECORDER
- R/W RIGHT OF WAY
- E.E. ELECTRICAL EASEMENT
- (A) 33' X 33' SIGHT VISIBILITY TRIANGLE EASEMENT
- (B) 3' ROADWAY EASEMENT
- (C) 25' X 25' ROADWAY EASEMENT CLIP
- (D) 10' P.U.E.
- (E) 1' VNAE PER BK. 1365, PG. 45, M.C.R.
- (F) 3' ROADWAY EASEMENT PER BK. 1365, PG. 45, M.C.R.
- (G) 10' P.U.E. PER BK.1365 PG. 45 M.C.R.
- (H) 10' P.U.E. PER BK.1505 PG. 37 M.C.R.
- (I) 33' X 33' SIGHT VISIBILITY TRIANGLE EASEMENT PER BK. 1505 PG. 37 M.C.R.
- (J) 10' P.U.E. PER BK.1579 PG. 14 M.C.R.

- MATCHLINE
- BOUNDARY LINE
- ROAD CENTERLINE
- PROPOSED RIGHT-OF-WAY LINE
- EXISTING RIGHT-OF-WAY LINE
- PARCEL LINE
- EXISTING PARCEL LINE
- SECTION LINE

SCALE: 1"=40'
40' 20' 0 40'

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CERTIFICATE NO.
29259
KENNETH P.
CONVERSE
7/21/21
ARIZONA, U.S.A.

ORIGINAL PLAN DATE
Jul/2021

LATEST REVISION DATE

PROJECT NUMBER
4201456000

SHEET NUMBER
4 of 6

COB PLAN TRACKING #
PLZS-21-00111
COB PERMIT #

LEGEND

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- PARCEL LINE
- EXISTING PARCEL LINE
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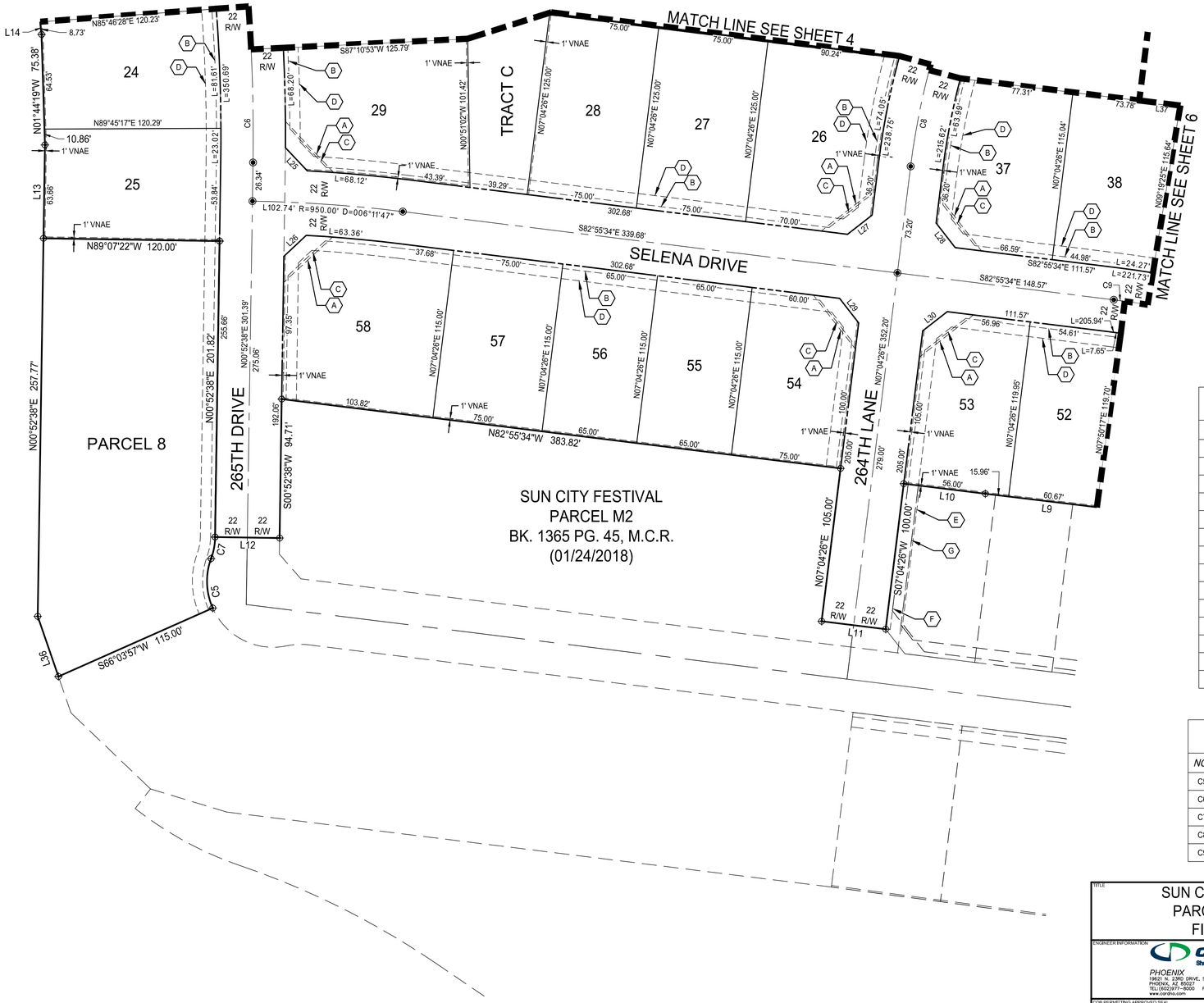

LINE TABLE

NO.	BEARING	LENGTH
L9	N83°07'16"W	134.97'
L10	S82°55'34"E	56.00'
L11	S82°55'34"E	44.00'
L12	N89°07'22"W	44.00'
L13	N00°52'38"E	63.66'
L14	N05°29'02"W	63.78'
L25	S43°20'17"E	21.56'
L26	N46°47'17"E	20.87'
L27	N52°04'26"E	21.21'
L28	S37°55'34"E	21.21'
L29	S37°55'34"E	21.21'
L30	N52°04'26"E	21.21'
L36	N19°02'11"W	43.36'
L37	S82°57'12"E	28.20'

CURVE TABLE

NO.	DELTA	RADIUS	LENGTH
C5	43°59'58"	45.00'	34.56'
C6	17°06'11"	1196.81'	357.25'
C7	19°11'17"	45.00'	15.07'
C8	30°16'27"	500.00'	264.19'
C9	20°33'24"	596.00'	213.83'

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In Maricopa County: (602) 263-1100

SCALE: 1"=40'
40' 20' 0 40'

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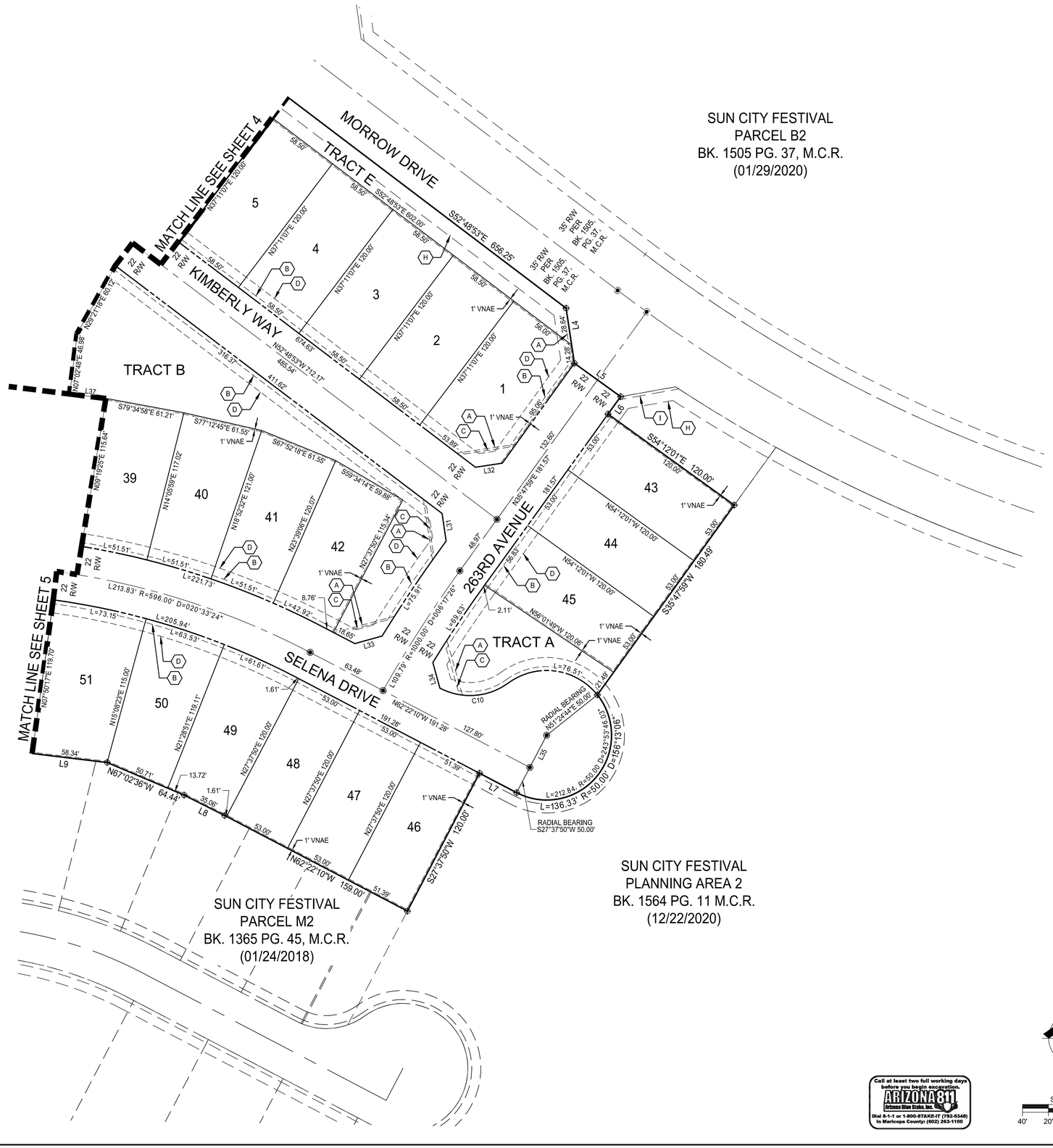

SUN CITY FESTIVAL
PARCEL B2
BK. 1505 PG. 37, M.C.R.
(01/29/2020)

SUN CITY FESTIVAL
PLANNING AREA 2
BK. 1564 PG. 11 M.C.R.
(12/22/2020)

SUN CITY FESTIVAL
PARCEL M2
BK. 1365 PG. 45, M.C.R.
(01/24/2018)

LEGEND

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- BRASS CAP MONUMENT (FOUND AS NOTED)
- INTERIOR MONUMENT SET BRASS CAP PER MAG DETAIL 120-1 TYPE B
- CORNER OF THIS SUBDIVISION SET 5/8" REBAR WITH CAP RLS #29259 UNLESS OTHERWISE STATED
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- (J) 10' P.U.E. PER BK.1579 PG. 14 M.C.R.

- MATCHLINE
- BOUNDARY LINE
- ROAD CENTERLINE
- PROPOSED RIGHT-OF-WAY LINE
- EXISTING RIGHT-OF-WAY LINE

LINE TABLE		
NO.	*BEARING*	*LENGTH*
L4	N08°31'31"W	42.92'
L5	N54°12'01"W	44.00'
L6	N35°47'59"E	16.62'
L7	S62°22'10"E	32.28'
L8	N63°22'20"W	35.06'
L9	N83°07'16"W	134.97'
L31	N08°30'27"W	21.47'
L32	N81°29'33"E	20.96'
L33	N74°22'37"E	21.85'
L34	S15°32'39"E	20.53'
L35	S27°37'50"W	28.00'
L36	N19°02'11"W	43.36'
L37	S82°57'12"E	28.20'

CURVE TABLE			
NO.	*DELTA*	*RADIUS*	*LENGTH*
C10	63°53'46"	50.00'	55.76'

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KENNETH P. CONVERSE
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ARIZONA U.S.A.

ORIGINAL PLAN DATE: Jul/2021
LATEST REVISION DATE:
PROJECT NUMBER: 4201456000
SHEET NUMBER: 6 of 6

SUBMITTAL
PLZS-21-00111
COS PLAN PACKAGE #
COS PERMIT #

DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

ARIZONA DEPARTMENT *of* WATER RESOURCES
1110 W. Washington St. Suite 310
Phoenix, Arizona 85007
602-771-8621
azwater.gov

Via Electronic and Certified Mail

May 8, 2018

Michele Van Quathem
Law Offices of Michele Van Quathem, PLLC
7600 N 15th Street, Suite 150-30
Phoenix, AZ 85020

Re: Certificate of Assured Water Supply
Sun City Festival Planning Area 2
DWR File No. 27-700961.0000

Dear Ms. Van Quathem:

The Arizona Department of Water Resources (Department) has determined that the criteria for an Assured Water Supply pursuant to A.R.S. § 45-576 and A.A.C. R12-15-701 et seq. have been met, and therefore the Director has decided to issue Assured Water Supply Certificate No.27-700961.0000. City of Buckeye will provide the water supply to the lots. The source of supply will be groundwater and effluent. Based on current information, the Department has determined that the subdivision's total projected demand is 836.51 acre-feet per year for 1199 lots, and the groundwater allowance for the 100-year period is 1673.02 acre-feet. The Certificate is attached. The Department suggests you record your Certificate of Assured Water Supply in the appropriate county recorder's office. This will provide you with a permanent public record of the Certificate.

This determination is applicable only to the person or entity specified on the Certificate and for the plat reviewed by the Department. Information used in evaluating this application is available for review in the Department's files. Please contact us if questions arise.

Pursuant to A.R.S. § 41-1092.03, the Department is notifying you that the Director's determination and decision to issue the Certificate is an appealable agency action. You are entitled to appeal this action. If you wish to appeal this action, you must file a written appeal within thirty (30) days from receipt of this letter. I am providing you with a summary of the appeal process and an appeal form, should you elect to pursue this option.

Sincerely,

David L. McKay
Manager, AAWS & Recharge Permitting

DLM/ vsb

CC: Via Electronic Mail:

CAGRD
Arizona Department of Real Estate
Arizona Department of Environmental Quality
Arizona State Land Department

ARIZONA DEPARTMENT OF WATER RESOURCES

NOTICE OF RIGHT TO APPEAL AGENCY ACTION

I. Right to Request Hearing

You have the right to request a hearing on the agency action described in the enclosed letter. To request a hearing, you must file a notice of appeal with the Docket Supervisor, Arizona Department of Water Resources, 3550 North Central Avenue, Phoenix, Arizona 85012 within thirty (30) days from the date of your receipt of this letter. **Effective June 13, 2016, the Department's address will be 1110 West Washington Street, Suite 310, Phoenix, Arizona 85007.** A Notice of Appeal form is enclosed. Pursuant to A.R.S. § 41-1092.03, the grounds for appeal by a party who will be adversely affected by the agency action and who exercised a right to comment on the action provided by law or rule is limited to the issues raised in the party's comments.

If you file a timely notice of appeal, a hearing will be scheduled and you will be given written notice of the time and place for the hearing at least thirty (30) days before the hearing date. The date scheduled for the hearing may be advanced or delayed on the agreement of the Department and the parties to the action or on a showing of good cause. **If no party files a notice of appeal within thirty days from the date of receipt of the enclosed letter, the agency action described in the letter will become final and will not be subject to judicial review.**

II. Right to Request Informal Settlement Conference

If you file a timely notice of appeal as described above, you will have the right to request an informal settlement conference. A request for an informal settlement conference must be in writing and must be filed with the Docket Supervisor, Arizona Department of Water Resources, 3550 North Central Avenue, Phoenix, Arizona 85012 not later than twenty (20) days before the hearing date. **Effective June 13, 2016, the Department's address will be 1110 West Washington Street, Suite 310, Phoenix, Arizona 85007.** The enclosed Notice of Appeal form includes a place for you to request an informal settlement conference. If you file a timely request for an informal settlement conference, the Department will give you written notice of the time and place for the settlement conference. An informal settlement conference must be held within fifteen (15) days after the request is filed.

If an informal settlement conference is held, a person with the authority to act on behalf of the Department will represent the Department at the conference. The parties participating in the settlement conference will waive their right to object to the participation of the Department's representative in the final administrative decision. Statements, either written or oral, made by the appellant at the conference, including a written document, created or expressed solely for the purpose of settlement negotiations, are inadmissible in any subsequent administrative hearing.

III. Agency Contact Person

If you have any questions regarding the appeals process, or the process for requesting an informal settlement conference, please contact the Docket Supervisor at (602) 771-8472.

Rev. 05/23/16

ARIZONA DEPARTMENT OF WATER RESOURCES
NOTICE OF APPEAL OF AGENCY ACTION

1. Party filing this notice of appeal:

   Name: _____
   Address: _____
   Phone No: (____)_____

2. The following action of the Department of Water Resources is being appealed:
   (Please attach a copy of the letter which advised you of the action.)

   _____
   _____
   _____
   _____

3 The following is a concise statement of the reason(s) for the appeal:
   (If you need additional space, please attach a separate page. Note: Pursuant to A.R.S. § 41-1092.03, the grounds for appeal by a party who will be adversely affected by an agency action and who exercised a right to comment on the action provided by law or rule is limited to the issues raised in the party's comments.)

   _____
   _____
   _____
   _____
   _____

4. Pursuant to A.R.S. § 41-1092.06, the appealing party may request an informal settlement conference. Such a request must be made no later than 20 days before the hearing. If an informal settlement conference is requested, the conference will be held within 15 days after the request is received by the agency.

   The person filing this notice of appeal requests an informal settlement conference at this time (check one):

   Yes _____ No _____

   Note: A person who participates in an informal settlement conference waives the right to object to the participation of the Department's representative in the final administrative decision. A.R.S. § 41-1092.06(B).

5 _____ Date: _____
   Signature of filing party

   _____ _____
   Print or type name Include title if applicable

FILING OF FORM: A party who desires to file a notice of appeal must complete this form and file it with the Docket Supervisor, Arizona Department of Water Resources, 3550 North Central Avenue, Phoenix, Arizona 85012 within thirty (30) days after the date the party received notice of the appealable agency action. Effective June 13, 2016, the Department's address will be 1110 West Washington Street, Suite 310, Phoenix, Arizona 85007.

Rev. 05/23/16

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
CERTIFICATE OF ASSURED WATER SUPPLY

This is to certify that

Pulte Home Company, LLC, a Michigan limited liability company, Owner,

has met the requirements of A.R.S. §§ 45-576 and the applicable regulations, and

By powers vested in the Director of the Arizona Department of Water Resources by the State of Arizona, and subject to the conditions contained in the applicable regulations,

Is issued this Certificate of Assured Water Supply for

Sun City Festival Planning Area 2
Township 4 North, Range 4 West, Section 25-26
GSRB&M Maricopa County, PHOENIX AMA

Sufficient water of adequate quality will be continuously available to satisfy the water demand of the referenced subdivision for at least one hundred years. The referenced subdivision consists of **1199 lots** as described in the preliminary plat on file with the Department, and has an estimated water demand of **836.51 acre-feet per year.** The subdivision will be served **groundwater and effluent** by **City of Buckeye.**

This Certificate is invalid as to any entity not named above.
This Certificate may be assigned pursuant to A.A.C. R12-15-705.

Certificate Number: 27-700961.0000

ARIZONA DEPARTMENT OF WATER RESOURCES

David L Mitchell
Program Manager

05/08/18
Date

TYPE A CERTIFICATE

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.Y. PLZV-20-00028-Verrado Victory District Phase 8-Final Plat
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 6
STAFF LIAISON: Sean Banda, Senior Planner, sbanda@buckeyeaz.gov, (623) 349-6215	
DEPARTMENT: Development Services	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on a final plat of Verrado Victory District Phase 8, generally located north of Victory Phases 7A and 7B and west of the Tuthill Roadway alignment and north of Tiger Mountain Drive within the Verrado Victory District.

RELEVANT GOALS:
GOAL 3: A Well-Planned Urban Community

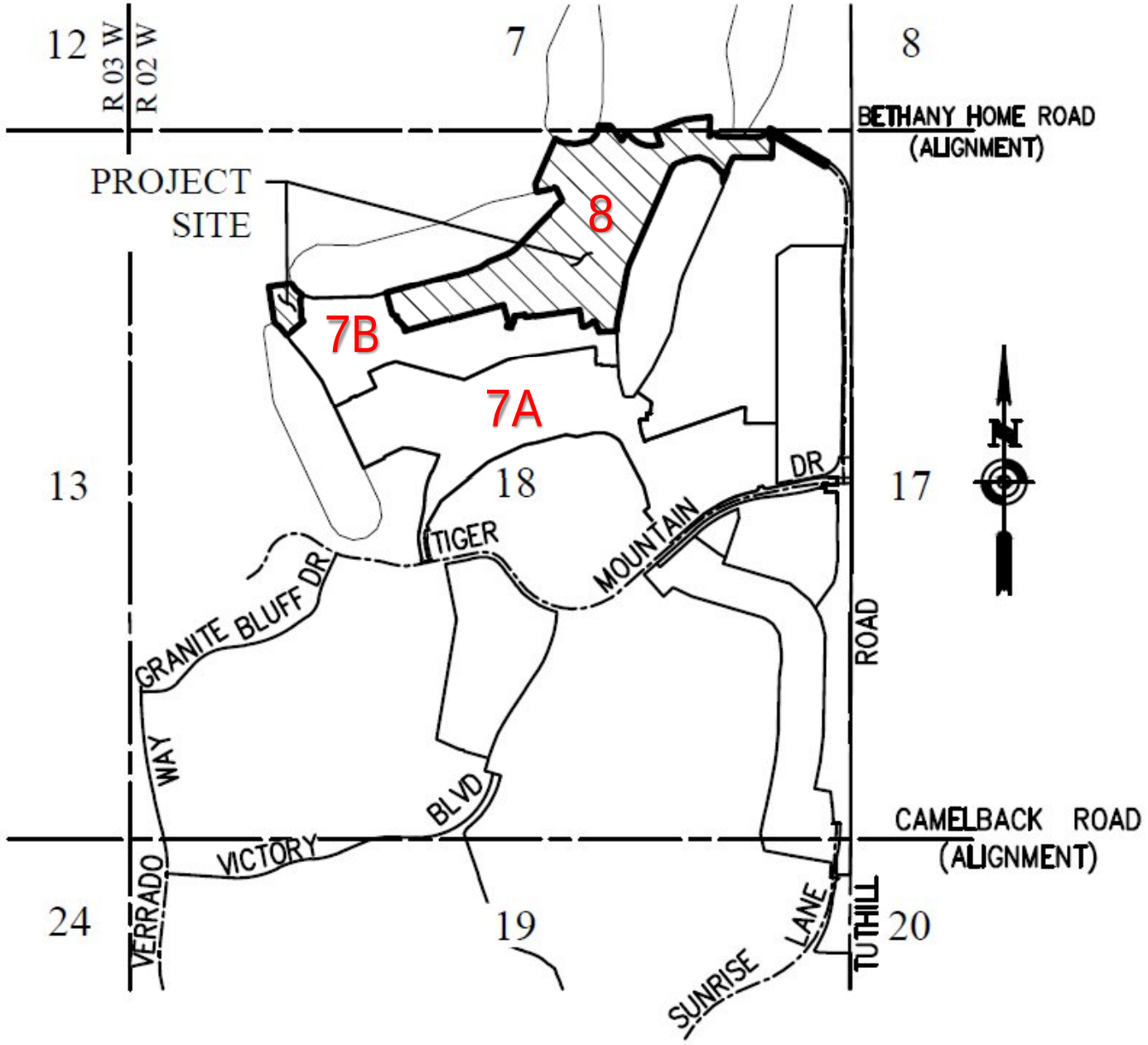
SUMMARY

PROJECT DESCRIPTION:
The applicant has requested approval of a final plat of Verrado Victory District Phase 8, consisting of 129 single-family lots on approximately 38.7 acres generally located north of Victory Phases 7A and 7B and west of the Tuthill Roadway alignment and north of Tiger Mountain Drive within the Verrado Victory District. The associated preliminary plat was approved by the Planning and Zoning Commission on April 28, 2020. Approval of the requested final plat would enable the applicant to additional single-family and golf course homes in Verrado. This request is in general conformance with the approved preliminary plat and the approved Verrado Community Master Plan. Reviewing departments (Planning, Engineering and Fire) have approved the request and the applicant has submitted a Certificate of Assured Water Supply pursuant to ARS 9-463.01.I. Requested by David Nilsen of Verrado ARC LLC.

BENEFITS:
The approval of the requested final plat would enable the applicant to develop additional single-family housing in the Verrado Victory District.

FUTURE ACTION:
None

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
PLZV-20-00028-Vicinity Map Rev.
PLZV-20-00028 Verrado Victory Phase 8 Narrative Final Plat.pdf
PLZV-20-00028 VerradoVictoryDisPh8_CAWS- signed.pdf
PLZV-20-00028 Verrado Phase 8 Final Plat.pdf


12
R 03 W
R 02 W
7
8
BETHANY HOME ROAD
(ALIGNMENT)
PROJECT
SITE
8
7B
7A
13
18
17
DR
TIGER
MOUNTAIN
GRANITE BLUFF DR
WAY
BLVD
ROAD
CAMELBACK ROAD
(ALIGNMENT)
VICTORY
VERRADO
24
19
20
SUNRISE
LANE
TUTHILL
N

RECIEVED

16 DEC 2020

CITY OF BUCKEYE by:
KH

1st Submittal

PLZV 20 00028

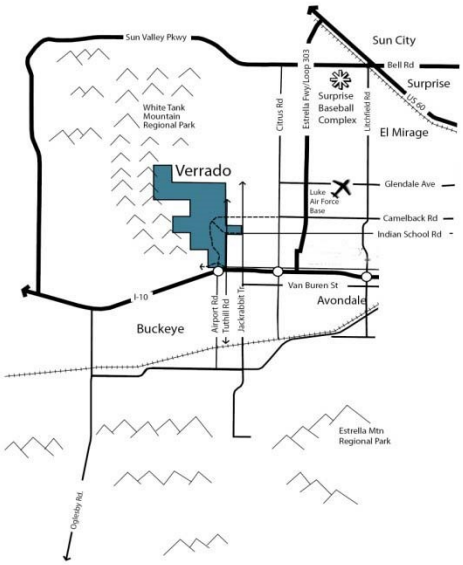
Victory District™

Final Plat
Verrado Victory District – Phase 8
Final Plat Narrative
(12.14.20)

Background

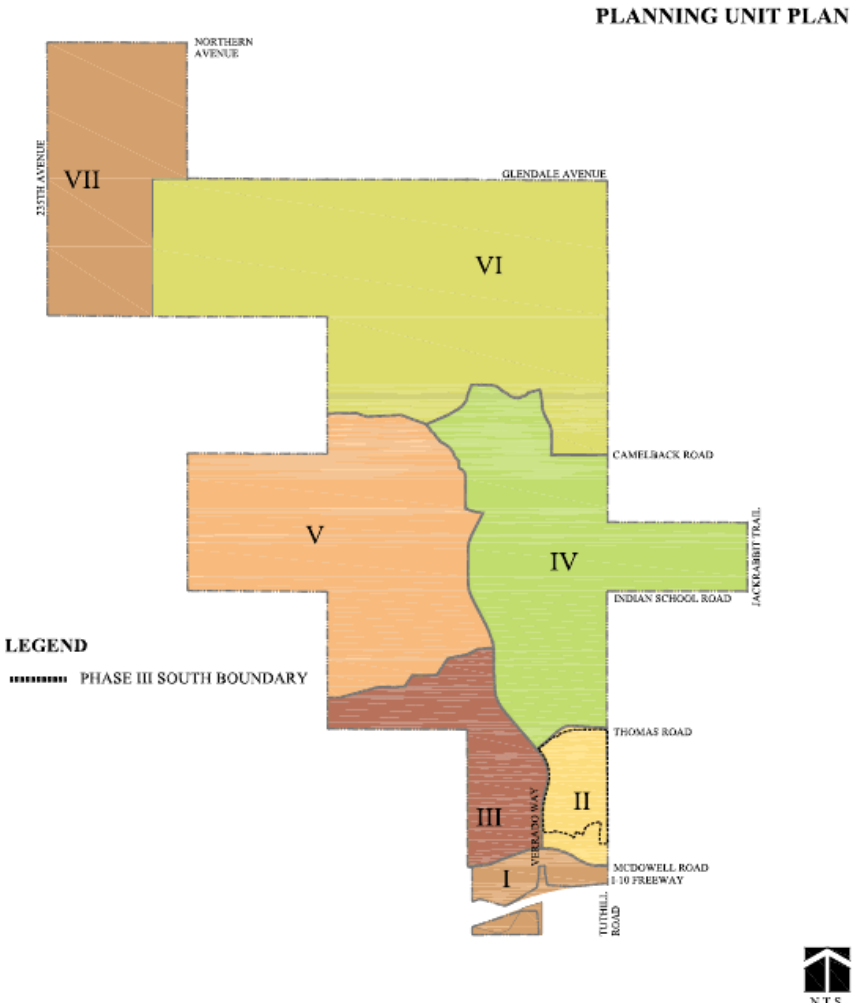
Verrado is an 8,816 acre master planned community located north and south of I-10 and east and west of Verrado Way ("Verrado") as shown on ***Exhibit A***. In 1999, the City of Buckeye (the "City") approved the Pre-Annexation and Development Agreement (the "PADA") and the Community Master Plan ("CMP"), both of which provide the planning and zoning entitlement framework for Verrado.

Exhibit A



In 2004, the City approved an amendment to the CMP that added an additional sixteen (16) acres to the entitlements. The CMP, as amended, allows for a maximum of 14,080 residential dwelling units, 4,234,550 square feet of commercial/mixed use and 1,000 resort rooms. A Land Use Budget allocates these densities/intensities throughout the 8,816 acre property into seven (7) Planning Units as depicted in ***Exhibit B***.

Exhibit B

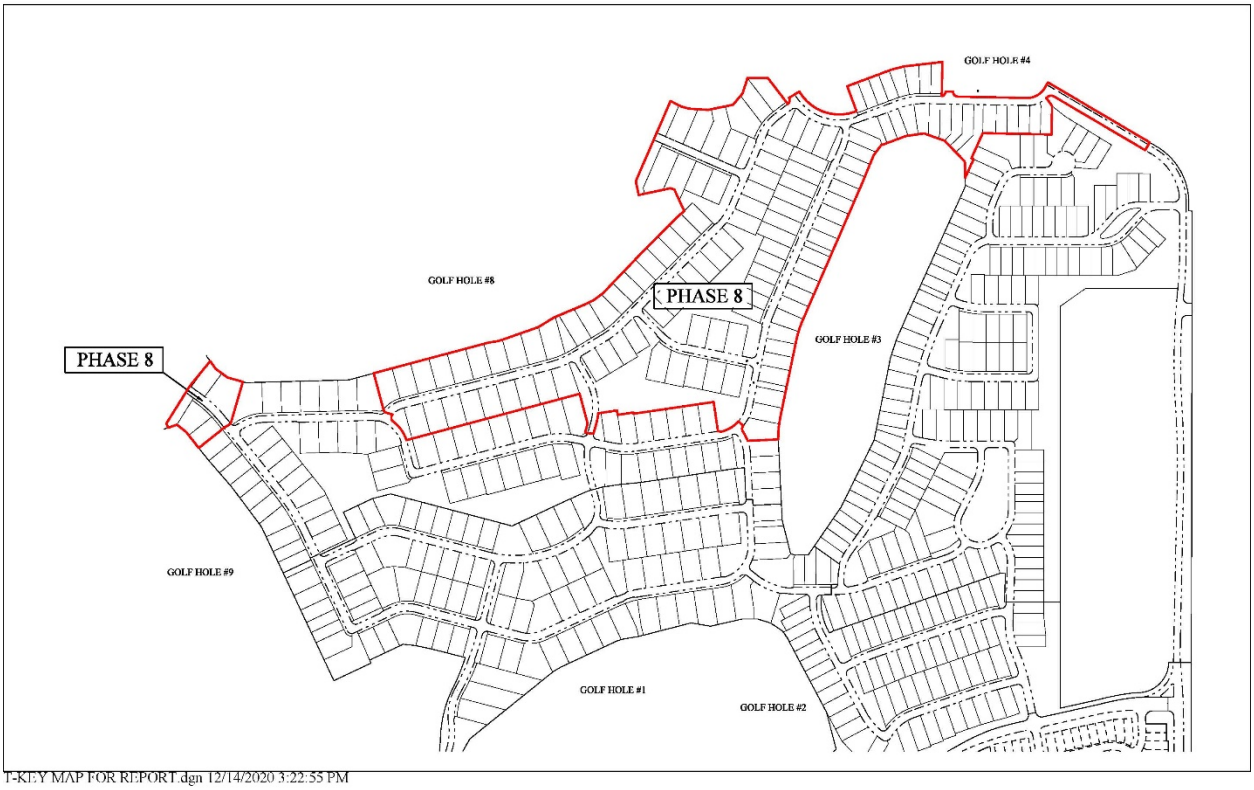


Description of Request

The purpose of this application is to request approval of a Final Plat for Phase 8 of the Verrado Victory District ("Victory"). The Planning Commission approved the Preliminary Plat for Victory Phase 7 and 8 on April 28, 2020. The Final Plat (the "Property"), as shown on ***Exhibit C***, consists of approximately 65 acres and is generally located north of Phase 7A, west of the Tuthill Roadway alignment, south of golf hole #8 and east of golf hole #9.

The Final Plat illustrates 217 residential lots and multiple private tracts to be utilized for neighborhood parks, trails and other such uses.

Exhibit C



Phasing

Separate Final Plats and Improvement Plans will be prepared for each of the three phases: Phase 7A, 7B and 8. Construction of the phases will commence with 7A, then progress to 7B and finish with 8. Careful consideration has been given in creating these separate phases and construction sequencing so that vehicular circulation and utilities (wet and dry) properly function from phase to phase.

Background on Verrado and Victory District

Verrado is set against the White Tank Mountains with elevations ranging from 1,100 to 3,600 feet. This setting allows for unique placement and mix of forms that are not only

appropriate for the environment, but also allow for a mix of residential and non-residential uses. With this setting, Verrado was planned to be a place to experience the best of home, town and Arizona. As Verrado has developed, it has become a modern hometown with an authentic small-town charm that focuses on bringing people together. The first phase of development, the Main Street District was established as a series of residential areas that were focused around a main street as well as other important civic uses, just like a small town. Residential areas were also planned around a series of small, neighborhood parks that allow residents to travel just a few steps to reach "their" park with neighborhood identities focused on the park. The streets have been important in the planning of the community with narrow travel lanes, detached sidewalks and street trees, making the neighborhoods a friendly place to engage rather than retreating to the enclosed backyard.

The Victory District is in the area north of the Main Street District and is exclusively for active adults. This represents a unique opportunity to create a convergence of complementary lifestyles, which will add to the diversity and charm of Verrado. Because this area is north of the Main Street District and given its proximity to the terrain of the White Tanks, the land plan will relax and take on a more organic quality that responds to terrain and the open space pattern of the golf fairways. While the fundamental design principles including street design, street trees, architectural design and neighborhood parks will still be employed, differences in execution will be made in order to meet the needs of the active adult.

Current Site Conditions

The "Property" is currently undeveloped and is primarily undeveloped desert; however, some areas have been disturbed in association with the construction of the golf holes and/or areas associated with the Caterpillar proving grounds operation, which ceased operations over 30 years ago.

Current General Plan Designation

The entire 8,816 Verrado property is designated as *Master Planned Community* in the City of Buckeye General Plan. In addition, because of the major washes that traverse Verrado, the General Plan land use map has several 'Floodway Transitional Areas' designated throughout the master planned community.

Current Zoning Designation

Verrado is zoned Planned Community District ("PC") with an approved CMP and PADA as noted above. The CMP identifies several Development Options, which specify allowed uses and development criteria. In accordance with the CMP, the selected Development Options are identified on the Final Plat.

Planning Unit Plans

The Victory District is located within two (2) planning units including Planning Units IV and VI and a Planning Unit Environmental Design Plan has been approved for the area.

Surrounding Vicinity Information

The Final Plat is located within the northern portion of Verrado and within the middle area of Victory. Areas surrounding the Property are developed as shown below.

To the east are properties outside of Verrado, which include future phases of the Canyon Views development and a State Land parcel located north of Canyon Views.

	North	**South**	**East**	**West**
Existing Use	Undeveloped	Under development – Phase 6	Undeveloped	Undeveloped
Existing Zoning	PC	PC	N/A	PC
Planning Unit Plan Designation	PU VI	PU IV and VI	N/A	PU IV and VI
Verrado "Districts"	Victory	Victory	N/A	Victory

Water Management Plan

EPCOR Water[1] is the water service provider for Verrado. Both the existing Zone 3 and Zone 4 water systems will be extended from Tiger Mountain Drive and Sunrise Lane to service the Property. Water storage will initially be provided by the Zone 3 South Reservoir. EPCOR Water will initiate the design and construction of the Zone 3 North Reservoir in the near future.

[1] EPCOR is a private utility provider service to Verrado and other areas in Maricopa County.

Wastewater Management Plan

EPCOR Water is also the wastewater service provider for Verrado. The wastewater distribution systems will be extended to service the "Property" from the existing Tuthill sewer trunk line that directs the wastewater to the existing wastewater reclamation facility, located north of McDowell Road adjacent to the Tuthill Road alignment.

Fire & Police Protection

Fire, Police and emergency services are provided by the City. The Verrado Fire Station 703 is located approximately 3 ½ miles to the south of the "Property" at 2582 North Verrado Way. Station 703 is a joint fire/police station that was partially funded by Verrado through the donation of land as well as cash donation as specified in the PADA. A future fire station is planned west of Verrado Way just north of Indian School Road.

Impact on Local Schools

The "Property" is located within three (3) school districts including 1) the Litchfield Elementary School District, 2) the Agua Fria Union High School District, and 3) the Saddle Mountain Elementary School District. The proposed Final Plat complies with land use intensities allowed within the land use budget and further, will not impact the school districts by creating a need for additional schools because the project is age restricted.

Transportation/Roadways

Roadway circulation will be provided to Victory Phase 8 by multiple connection points into Phase 7A and 7B that ultimately outlet onto Tiger Mountain (minor collector) at two separate access points. Additionally, Sunrise Lane (Local Collector) will extend north from Tiger Mountain, approximately 2,000 feet, to the northern end of Phase 7B. Internal local residential roadway will provide internal circulation.

The residential streets will be tree-lined and have a five (5) foot wide sidewalk located on one side of the street only, as shown on the On-site Phase 7B Civil Improvement Plans. Local roadways will be minimum width of thirty-two (32) feet back-of-curb when lots are located on both side of the roadway. In this situation, parking is allowed on both sides of the street. Roadway widths adjacent to open space tracts will utilize a smaller half street section of twelve (12) feet from center line to back-of-curb. One-way streets will be a minimum width of twenty-five (25) feet, with parking allowed on one side of the street only. Roadway widths are shown on the final plat and are in conformance with CMP standards.

Proposed Trails, Parks and Open Space

The Improvement Plans include a trail system that traverses the project, which will connect to existing trail systems within Victory. Trails are a central feature of Victory. Future connections will also be made to other areas of Verrado as well as off-site trail systems with the goal of providing an overall trail system within the entire community that connects with trails from adjacent parks and other open space amenities. We have found in our research, that one of the key community elements that active adults desire is a path and trail system. To that end, we have made this an important feature of the community.

Development Standards

The Final Plat illustrates 129 residential lots as well as several private "tracts" that will be used for several uses including neighborhood parks, trails and drainage. The residential lots will include different lot sizes resulting in use of several Development Options including the Residential Low and Residential Medium categories. Below is an abbreviated summary of the Development Options with proposed lot development standards:

Development Option	Lot Size (CMP)		Min. Width & Depth		Max. Lot Coverage	
	CMP	Prop.	CMP	Prop.	CMP	
Residential Low	6,000	10,400 (80 x 130)	60'	80'	60%	
		8,160 (68 x 120)		68'	60%	
Residential Medium	3,500	5,170 (47 x 110)	45':35' when alley loaded	47'	65%	
		6,840 (57 x 110)		57'	65%	

Verrado Design Guidelines

Design Guidelines for Victory have been developed to address the unique character that will be created in this portion of Verrado. The Victory design guidelines are similar to the existing Verrado Design Guidelines that are utilized to guide the unique architectural and land planning character that has made this community unique.

Summary

The Final Plat represents the seventh phase of the Victory District in Verrado. Victory will blend in seamlessly with Verrado, yet will be developed with its own character and qualities, which will ensure the success of the community.

DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

ARIZONA DEPARTMENT of WATER RESOURCES
1110 West Washington Street, Suite 310
Phoenix, Arizona 85007
602.771.8500

azwater.gov

Via Electronic and Certified Mail

June 7, 2021

Annie Stewart
Fennemore Craig, PC
2394 E Camelback Road, Ste. 600
Phoenix, AZ 85016

Re: Certificate of Assured Water Supply
Verrado Victory District Phase 8
DWR File No. 27-701152.0000

Dear Ms. Stewart:

The Arizona Department of Water Resources (Department) has determined that the criteria for an Assured Water Supply pursuant to A.R.S. § 45-576 and A.A.C. R12-15-701 *et seq.* have been met, and therefore the Director has decided to issue Certificate of Assured Water Supply No. 27-701152.0000, attached.

EPCOR - Agua Fria will provide water to the subdivision. The source of supply will be groundwater. The annual estimated water demand of the subdivision is 51.45 acre-feet per year for 129 lots, and the groundwater allowance for the subdivision for the 100-year period is 51.45 acre-feet. Pursuant to A.R.S. § 45-578(F), the total projected average annual replenishment obligation at build-out for each plat under the Certificate is 50.94 acre-feet per year.

The Department suggests you record your Certificate of Assured Water Supply in the appropriate county recorder's office. This will provide you with a permanent public record of the Certificate. This determination is applicable only to the persons or entities specified on the Certificate and for the plat reviewed by the Department, including non-material plat changes pursuant to A.A.C. R12-15-708.

Pursuant to A.R.S. § 41-1092.03, the Director's determination and decision to issue the Certificate is an appealable agency action. You are entitled to appeal this action. If you wish to appeal this action, you must file a written appeal within thirty (30) days from receipt of this letter. A summary of the appeal process and an appeal form are attached, should you elect to pursue this option.

Sincerely,

David L. McKay

David L. McKay
Manager, AAWS & Recharge Permitting

DLM/ecp

CC: Via Electronic Mail:

CAGRD
Arizona Corporation Commission
Arizona Department of Real Estate
Arizona Department of Environmental Quality
Arizona State Land Department

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
CERTIFICATE OF ASSURED WATER SUPPLY

This is to certify that

Fidelity National Title Insurance Company, a Florida corporation that acquired title as a California corporation, as Trustee under its Trust # B176, with Caterpillar Foundation, an Illinois not-for-profit corporation as first beneficiary and DMB White Tank, LLC, an Arizona limited liability company as second beneficiary, Owner, K. Hovnanian Great Western Homes, LLC, an Arizona limited liability company, Buyer, K. Hovnanian at Victory at Verrado, LLC, an Arizona limited liability company, Buyer, Taylor Morrison/ Arizona, Inc., an Arizona corporation, Buyer, Weekley Homes Arizona, LLC, an Arizona limited liability company, Buyer, and Weekley Homes, LLC, a Delaware limited liability company, Buyer

have met the requirements of A.R.S. §§ 45-576 and A.A.C.R12-15-701 et. seq., and

By powers vested in the Director of the Arizona Department of Water Resources by the State of Arizona, and subject to the conditions contained in A.A.C. R12-15-701 et seq.,

Are issued this Certificate of Assured Water Supply for

Verrado Victory District Phase 8
Township 2 North, Range 2 West, Section 7, 18
GSRB&M Maricopa County, PHOENIX AMA

The referenced subdivision consists of **129 lots** as described in the preliminary plat on file with the Department, and has an estimated water demand of **51.45 acre-feet per year.** The subdivision will be served **groundwater** by **EPCOR - Agua Fria.**

This Certificate is invalid as to any entity not named above.
This Certificate may be assigned pursuant to A.A.C. R12-15-705.

Certificate Number: 27-701152.0000

ARIZONA DEPARTMENT OF WATER RESOURCES

David L McKay
Program Manager

Jun 7, 2021
Date

TYPE A CERTIFICATE

3rd Submittal
PLZV-20-00028
RECEIVED
JULY 14 2021
CITY OF BUCKEYE by: WD

FINAL PLAT
FOR

"VERRADO VICTORY DISTRICT - PHASE 8"

SITUATED IN A PART OF SECTIONS 7 AND 18, TOWNSHIP 2 NORTH, RANGE 2 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, CITY OF BUCKEYE, MARICOPA COUNTY, ARIZONA.

DEDICATION

STATE OF ARIZONA }
} SS
COUNTY OF MARICOPA }

KNOW ALL MEN BY THESE PRESENTS:

THAT FIDELITY NATIONAL TITLE INSURANCE COMPANY, A FLORIDA CORPORATION, ACTING NOT IN ITS CORPORATE CAPACITY, BUT SOLELY AS TRUSTEE UNDER ITS TRUST NO. B176 ("TRUSTEE"), AS OWNER OF THE LAND DESCRIBED HEREIN, HAS SUBDIVIDED UNDER THE NAME OF "VERRADO VICTORY DISTRICT – PHASE 8"; SITUATED IN A PART OF SECTIONS 7 AND 18, TOWNSHIP 2 NORTH, RANGE 2 WEST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, CITY OF BUCKEYE, MARICOPA COUNTY, ARIZONA, AS SHOWN HEREON, AND HEREBY PUBLISHES THIS PLAT AS AND FOR THE FINAL PLAT OF SAID "VERRADO VICTORY DISTRICT – PHASE 8", AND HEREBY DECLARES THAT THIS PLAT SETS FORTH THE LOCATION AND GIVES THE DIMENSIONS OF THE STREETS, LOTS, TRACTS AND EASEMENTS CONSTITUTING SAME, AND THAT THE STREETS, LOTS, TRACTS AND EASEMENTS SHALL BE KNOWN BY THE NUMBER, LETTER OR NAME GIVEN EACH RESPECTIVELY ON SAID PLAT AND THAT OWNER, HEREBY DEDICATES TO THE PUBLIC FOR USE AS SUCH THE PUBLIC STREETS AND PUBLIC EASEMENTS AS SHOWN ON THIS PLAT AND INCLUDED IN THE ABOVE DESCRIBED PREMISES.

THE TERMS AND CONDITIONS OF THE FOREGOING DEDICATION OF PUBLIC STREETS ARE HEREBY MADE SUBJECT TO THE PROVISIONS OF THAT CERTAIN DEDICATION, EASEMENT AND MAINTENANCE AGREEMENT (VICTORY DISTRICT) RECORDED AS DOCUMENT NO, 2013–1046384 M.C.R AS SAME MAY BE AMENDED FROM TIME TO TIME (THE "DEMA") INCLUDING THE TERMS AND CONDITIONS OF CERTAIN EASEMENTS AND RIGHTS RESERVED FROM SUCH DEDICATION, THE TERMS AND CONDITIONS OF THE FOREGOING DEDICATION OF PUBLIC STREETS ARE HEREBY MADE SUBJECT TO THE PROVISIONS OF THE DEMA RELATIVE TO "RIGHT–OF–WAY" OR "R.O.W." AND SUBJECT TO ALL OF THE TERMS AND CONDITIONS RELATING THERETO AS ARE SPECIFICALLY SET FORTH IN SECTION 1.1 OF THE DEMA. THE DEMA IS INCORPORATED HEREIN AS IF SET FORTH IN ITS ENTIRETY, IT IS INTENDED THAT THIS PLAT AND THE DEMA BE READ TOGETHER TO THE EXTENT OF ALL APPLICABLE PROVISIONS OF THE DEMA.

ALL AREAS DESIGNATED HEREON AS "P.U.E" OR "PUBLIC UTILITY EASEMENT" SHALL BE UTILIZED ONLY FOR THE PURPOSES, AND SHALL BE SUBJECT TO ALL OF THE TERMS AND CONDITIONS RELATING THERETO, SET FORTH IN SECTION 2.4 OF THE DEMA, AS IF THE PUBLIC UTILITY EASEMENTS WERE CREATED UNDER THE DEMA.

OWNER, HEREBY GRANTS TO EPCOR WATER ARIZONA, INC., AN ARIZONA CORPORATION, ("EPCOR"), A PERPETUAL WATER EASEMENT OVER, UNDER, UPON AND ACROSS ALL AREAS DESIGNATED HEREON AS WATER EASEMENT, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH IN THE WATER LINE EASEMENT RECORDED AS INSTRUMENT NO. 2012–0714757, M.C.R., AS IF SAID AREAS WERE EASEMENT PREMISES THEREUNDER.

OWNER, HEREBY GRANTS TO EPCOR A PERPETUAL SEWER EASEMENT OVER, UNDER, UPON AND ACROSS ALL AREAS DESIGNATED HEREON AS SEWER EASEMENT, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH IN THE WASTEWATER LINE EASEMENT RECORDED AS INSTRUMENT NO. 2012–0714756, M.C.R., AS IF SAID AREAS WERE EASEMENT PREMISES THEREUNDER.

OWNER, HEREBY GRANTS TO SOUTHWEST GAS CORPORATION, A CALIFORNIA CORPORATION ("SW GAS"), A SEPARATE EASEMENT FOR INSTALLATION AND MAINTENANCE OF NATURAL GAS PIPELINE OR PIPELINES AND APPURTENANCES OVER, UPON, AND ACROSS ALL AREAS DESIGNATED HEREON AS PUE, OR PUBLIC UTILITY EASEMENT AND ALL TRACTS REFLECTED HEREON, BUT ONLY TO THE EXTENT WITHIN AREAS CONTEMPLATED BY THE FINAL APPROVED APPLICABLE SW GAS IMPROVEMENT PLANS FOR THE SUBDIVISION, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH IN THE GRANT OF EASEMENT RECORDED AS INSTRUMENT NO 2017–0294149, M.C.R. AS IF SAID AREAS WERE EASEMENT PROPERTY THEREUNDER

OWNER, HEREBY GRANTS TO THE CITY OF BUCKEYE FOR THE BENEFIT OF THE PUBLIC, A PERPETUAL VISIBILITY TRIANGLE EASEMENT OVER, UPON AND ACROSS ALL AREAS DESIGNATED HEREON AS "V.T.E." OR "VISIBILITY TRIANGLE EASEMENT" AND EACH SUCH EASEMENT AREA SHALL BE SUBJECT TO ALL OF THE TERMS AND CONDITIONS RELATING THERETO, AS ARE SPECIFICALLY SET FORTH IN SECTION 2.7 OF THE DEMA.

OWNER, HEREBY GRANTS TO THE CITY OF BUCKEYE FOR THE BENEFIT OF THE PUBLIC, A PERPETUAL SIGHT VISIBILITY EASEMENT OVER, UPON AND ACROSS ALL AREAS DESIGNATED HEREON AS "S.V.E." OR "SIGHT VISIBILITY EASEMENT", AND EACH SUCH EASEMENT AREA SHALL BE SUBJECT TO ALL OF THE TERMS AND CONDITIONS RELATING THERETO, AS ARE SPECIFICALLY SET FORTH IN SECTION 2.8 OF THE DEMA.

OWNER, HEREBY GRANTS TO THE CITY OF BUCKEYE FOR THE BENEFIT OF THE PUBLIC, A PERPETUAL LANDSCAPE AND SIDEWALK EASEMENT OVER, UNDER, UPON AND ACROSS EACH OF TRACTS "A–4", "C–4", "H–3", "H–5", "I–5", "J–3", "K–3", "L–3", "N–3", "P–3", "Q–3", "S–3", "T–2", "T–3", "U–2", "U–3", "V–3", "W–3", "Y–3" AND "Z–3" EACH SUCH EASEMENT AREA SHALL BE SUBJECT TO ALL OF THE TERMS AND CONDITIONS RELATING THERETO, AS ARE SPECIFICALLY SET FORTH IN SECTION 2.6 OF THE DEMA; SUCH TRACTS BEING DESIGNATED AS "LANDSCAPE / SIDEWALK TRACTS" AS DESCRIBED IN SECTION 2.6 OF THE DEMA.

OWNER, HEREBY GRANTS TO THE CITY OF BUCKEYE FOR THE BENEFIT OF THE PUBLIC, A PERPETUAL STORM DRAIN EASEMENT OVER, UPON AND ACROSS ALL AREAS DESIGNATED HEREON AS "S.D.E." OR "STORM DRAIN EASEMENT", AND EACH SUCH EASEMENT AREA SHALL BE UTILIZED ONLY FOR THE PURPOSES, AND SHALL BE SUBJECT TO ALL OF THE TERMS AND CONDITIONS RELATING THERETO, AS ARE SPECIFICALLY SET FORTH IN SECTION 2.10 OF THE DEMA.

OWNER, HEREBY GRANTS TO THE CITY OF BUCKEYE FOR THE BENEFIT OF THE PUBLIC, A SEPARATE PERPETUAL DRAINAGE EASEMENT OVER, UNDER, UPON AND ACROSS TRACTS "C–1", "C–4", "H–5", "I–5", "O–3", "R–3", "U–2" AND "U–3" ALL AREAS DESIGNATED HEREON AS "D.E.". OR DRAINAGE EASEMENT, AND EACH SUCH EASEMENT AREA SHALL BE SUBJECT TO ALL OF THE TERMS AND CONDITIONS RELATING THERETO, AS ARE SPECIFICALLY SET FORTH IN SECTION 2.2 OF THE DEMA; SUCH TRACTS BEING DESIGNATED AS "DRAINAGE TRACTS" AS DESCRIBED IN SECTION 2.2 OF THE DEMA.

IN WITNESS WHEREOF:

FIDELITY NATIONAL TITLE INSURANCE COMPANY, A FLORIDA CORPORATION, ACTING NOT IN ITS CORPORATE CAPACITY, BUT SOLELY AS TRUSTEE OF ITS TRUST NO. B176, AS OWNER OF THE LAND DESCRIBED HEREIN, HAS HEREUNTO CAUSED ITS NAME TO BE AFFIXED AND THE SAME TO BE ATTESTED BY THE SIGNATURES OF THE UNDERSIGNED DULY AUTHORIZED OFFICER. THE NAMES AND ADDRESSES OF THE BENEFICIARIES OF FIDELITY NATIONAL TITLE INSURANCE COMPANY TRUST NO. B176 ARE SET FORTH IN THE INSTRUMENT RECORDED AS INSTRUMENT NO. 2013–1028199, M.C.R.

FIDELITY NATIONAL TITLE INSURANCE COMPANY, A FLORIDA CORPORATION, ACTING NOT IN ITS CORPORATE CAPACITY, BUT SOLELY AS TRUSTEE OF ITS TRUST NO. B176

BY: _____

ITS: _____

ACKNOWLEDGMENT

STATE OF ARIZONA }
} SS
COUNTY OF MARICOPA }

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS _____ DAY OF _____, 2021. BY _____, THE _____ OF FIDELITY NATIONAL TITLE INSURANCE COMPANY, A FLORIDA CORPORATION, ACTING NOT IN ITS CORPORATE CAPACITY, BUT SOLELY AS TRUSTEE OF ITS TRUST NO. B176, ON BEHALF OF THE CORPORATION.

_____
NOTARY PUBLIC

MY COMMISSION EXPIRES: _____

RATIFICATION AND APPROVAL

THE UNDERSIGNED, DULY ELECTED _____, ON BEHALF OF THE BOARD OF DIRECTORS OF VERRADO COMMUNITY ASSOCIATION, INC., AN ARIZONA NONPROFIT CORPORATION, AS REQUIRED BY THE CHARTER, RATIFIES AND APPROVES THIS PLAT AND APPROVES ALL DESIGNATIONS OF AREAS OF COMMON RESPONSIBILITY SET FORTH HEREIN.

BY: _____

ITS: _____

ACKNOWLEDGMENT

STATE OF ARIZONA }
} SS
COUNTY OF MARICOPA }

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS _____ DAY OF _____, 2021. BY _____, THE _____ OF VERRADO COMMUNITY ASSOCIATION, INC., AN ARIZONA NON–PROFIT CORPORATION, ON BEHALF OF THE NON–PROFIT CORPORATION.

_____
NOTARY PUBLIC

MY COMMISSION EXPIRES: _____

APPROVAL

APPROVED BY THE COUNCIL OF THE CITY OF BUCKEYE ON THIS ____ DAY OF _____, 2021.

BY: _____
MAYOR

ATTEST: _____
CITY CLERK

I HEREBY CERTIFY THAT ALL ENGINEERING CONDITIONS AND REQUIREMENTS OF THE CMP, INCLUDING ALL MAJOR AND MINOR AMENDMENTS THERETO, HAVE BEEN COMPLIED WITH.

BY: _____ DATE: _____
BUCKEYE CITY ENGINEER

I HEREBY CERTIFY THAT THIS PLAT SUBSTANTIALLY CONFORMS TO THE APPROVED PRELIMINARY PLAT AND THAT ALL TRACTS SHOWN UPON THIS PLAT CONFORM TO THE VERRADO (FORMERLY CATERPILLAR) COMMUNITY MASTER PLAN APPROVED BY THE CITY OF BUCKEYE AND INCORPORATED BY REFERENCE INTO THAT CERTAIN PRE–ANNEXATION AND DEVELOPMENT AGREEMENT BY AND BETWEEN THE CITY OF BUCKEYE AND DMB WHITE TANK, LLC, AN ARIZONA LIMITED LIABILITY COMPANY, RECORDED AS DOCUMENT NO 99–1071208, M.C.R. THE "CMP", INCLUDING ALL MAJOR AND MINOR AMENDMENTS THERETO, AND ARE SUITABLE FOR THE PURPOSE FOR WHICH THEY ARE SUBDIVIDED.

BY: _____ DATE: _____
DEVELOPMENT SERVICES DIRECTOR

CMP DEVELOPMENT OPTION

ALL SETBACKS SHALL CONFORM TO THE CMP, INCLUDING ALL MAJOR AND MINOR AMENDMENTS THERETO, DEVELOPMENT OPTION – RESIDENTIAL MEDIUM AND RESIDENTIAL LOW.

NOTES

1. THE LAND DESCRIBED HEREIN IS OR WILL BE SUBJECT TO THE COVENANTS, CONDITIONS, RESTRICTIONS AND OTHER PROVISIONS CONTAINED IN THAT CERTAIN COVENANT FOR COMMUNITY FOR VERRADO RECORDED IN DOCUMENT NO. 2003–0531387, M.C.R., AS SAME MAY BE AMENDED FROM TIME TO TIME, AND IS OR WILL BE SUBJECT TO THAT CERTAIN COMMUNITY CHARTER FOR VERRADO (THE "CHARTER") RECORDED IN DOCUMENT NO. 2002–1008906, M.C.R., AS SAME MAY BE AMENDED FROM TIME TO TIME AND IS OR WILL BE SUBJECT TO THAT CERTAIN DECLARATION OF COVENANTS, CONDITIONS AND RESTRICTIONS FOR THE VICTORY DISTRICT (THE "VICTORY CC&R'S") RECORDED IN DOCUMENT NO. 2014–0004847, M.C.R., AS SAME MAY BE AMENDED FROM TIME TO TIME. PURSUANT TO THE CHARTER, VERRADO COMMUNITY ASSOCIATION, INC., AN ARIZONA NONPROFIT CORPORATION (THE "COMMUNITY ASSOCIATION") WAS FORMED TO, AMONG OTHER THINGS, GOVERN THE USE AND MAINTENANCE OF PORTIONS OF THE "VILLAGE" AS DEFINED IN THE CHARTER. PURSUANT TO THE VICTORY CC&R'S, VICTORY DISTRICT ASSOCIATION, INC., AN ARIZONA NONPROFIT CORPORATION (THE "VICTORY ASSOCIATION") WAS FORMED TO, AMONG OTHER THINGS, GOVERN THE USE AND MAINTENANCE OF PORTIONS OF THE "VICTORY DISTRICT" AS DEFINED IN THE VICTORY CC&R'S. ALL OWNERS OF LOTS SHALL BE MEMBERS OF BOTH THE COMMUNITY ASSOCIATION AND THE VICTORY ASSOCIATION. ALL TRACTS ARE AREAS OF COMMON RESPONSIBILITY.
2. CONSTRUCTION WITHIN UTILITY EASEMENTS, EXCEPT BY PUBLIC AGENCIES AND UTILITY COMPANIES, SHALL BE LIMITED TO WOOD, WIRE, OR REMOVABLE SECTION–TYPE FENCING AND MUST BE IN CONFORMANCE WITH THE CHARTER.
3. ALL SETBACKS SHALL CONFORM WITH THE CMP, INCLUDING ALL MAJOR AND MINOR AMENDMENTS THERETO.
4. THE LAND DESCRIBED IN THIS PLAT IS LOCATED WITHIN THE SERVICE AREA OF EPCOR WATER ARIZONA INC. CERTIFICATE OF ASSURED WATER SUPPLY NO. ADWR# 27–701152.0000 FOR "VERRADO VICTORY DISTRICT – PHASE 8" HAS BEEN SUBMITTED WITH THE PLAT.
5. ALL TRACTS IDENTIFIED AS AREAS OF COMMON RESPONSIBILITY SHALL BE CONVEYED TO THE COMMUNITY ASSOCIATION, AND SHALL BE MAINTAINED AS AREAS OF COMMON RESPONSIBILITY BY THE COMMUNITY ASSOCIATION AND SHALL NOT BE ACCEPTED FOR MAINTENANCE OR OWNERSHIP BY THE CITY.
6. THE LAND DESCRIBED IN THIS PLAT IS SUBJECT TO THAT CERTAIN DECLARATION OF COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS RELATING TO TELECOMMUNICATIONS RECORDED AS DOCUMENT NO. 2002–1008905, M.C.R" AS SAME MAY BE AMENDED FROM TIME TO TIME.
7. REFERENCE THE "RESULTS OF SURVEY, VERRADO" RECORDED IN BOOK 602, PAGE 30, M.C.R., FOR THE DOCUMENTATION REGARDING THE BASIS OF BEARING FOR THIS PLAT, THE PROJECT BOUNDARY FOR VERRADO AND RELATED SECTION CORNER AND SECTION LINE INFORMATION.
8. ALL CORNERS SHALL BE MONUMENTED WITH 1/2" REBAR AND CAPPED OR TAGGED. BEARING THE REGISTRATION NUMBER OF THE SURVEYOR RESPONSIBLE FOR THEIR PLACEMENT AT TIME OF CONSTRUCTION.
9. NO TREES ARE ALLOWED WITHIN THE VISIBILITY TRIANGLE EASEMENT AREA OR SIGHT VISIBILITY EASEMENT. NO OBJECT, WALL, STRUCTURE, MOUND OR LANDSCAPING (MATURE) OVER 24" IN HEIGHT IS ALLOWED WITHIN THE VISIBILITY TRIANGLE EASEMENT AREA. TREE CANOPIES OVERHANGING THE VISIBILITY TRIANGLE EASEMENT AREA AND SIGHT VISIBILITY EASEMENT SHALL BE KEPT TRIMMED TO A HEIGHT NO LESS THAN 7 FEET.
10. PURSUANT TO AND SUBJECT TO THE PROVISIONS OF SECTION 13.8 OF THE CHARTER, AN EASEMENT IS ESTABLISHED OVER THE PORTIONS OF THE TRACTS DESIGNATED AS TRACTS "A–4", "J–3", "N–3" "Q–3", "T–2", "T–3" AND "W–3" THAT ARE NOT ADJOINING AN AREA SUBJECT TO A VEHICULAR NON–ACCESS EASEMENT PROVIDING PEDESTRIAN AND VEHICULAR ACCESS TO THE LOTS AND, SUBJECT TO FIRST OBTAINING ALL NECESSARY APPROVALS REQUIRED BY THE CHARTER, GRANTING OWNERS OF SUCH LOTS THE RIGHT TO INSTALL DRIVEWAY AND UNDERGROUND UTILITY IMPROVEMENTS TRANSECTING THE TRACTS.
11. THE SUBDIVISION DEPICTED ON THIS PLAT IS LOCATED WITHIN TERRITORY, IN THE VICINITY OF A MILITARY AIRPORT (LUKE AIR FORCE BASE) AND MAY BE SUBJECT TO INCREASED NOISE, ACCIDENT POTENTIAL AND JET AIRCRAFT OVERFLIGHTS, AS PER INSTRUMENT NUMBER 2001–0743413.
12. DEVELOPMENT WITHIN THIS SUBDIVISION WILL COMPLY WITH THE APPLICABLE FIRE CODES REGARDING SUPPRESSION, PURSUANT TO CITY OF BUCKEYE CODE 152–10, SECTION 903.2.8.
13. ALL NEW OR RELOCATED UTILITIES WILL BE PLACED UNDERGROUND EXCEPT POWER LINES 69KV AND LARGER.
14. GOLF ACCESS EASEMENT PER AMENDED DECLARATION OF EASEMENT DKT# 2020–1001130.

FLOOD ZONE

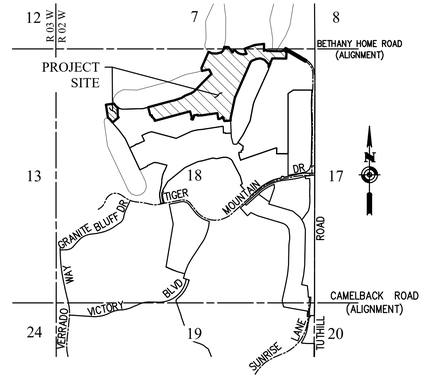
THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) NUMBERS 04013C1645L AND 04013C1665L DATED OCTOBER 16, 2013 SHOW PORTIONS OF THE SITE TO LIE WITHIN ZONE "X" (SHADED) AND ZONE "AE".

ZONE "X" (SHADED) IS DEFINED BY FEMA AS FOLLOWS: AREAS OF 500–YEAR FLOOD; AREAS OF 100–YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 100–YEAR FLOOD.

ZONE "AE" IS DEFINED BY FEMA AS FOLLOWS: SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100–YEAR FLOOD. BASE FLOOD ELEVATIONS DETERMINED.

REFERENCE SURVEYS

R1 – RESULTS OF SURVEY VERRADO, BOOK 602, PAGE 30, MCR.
R2 – FINAL PLAT FOR "VERRADO VICTORY DISTRICT – PHASE 7B", RECORDED AS BOOK 1580, PAGE 48, MCR
R3 – FINAL PLAT FOR "VERRADO VICTORY DISTRICT – PHASE 7A", RECORDED AS BOOK 1553, PAGE 35, MCR
R4 – FINAL PLAT FOR "VERRADO VICTORY DISTRICT PHASE 1", RECORDED AS BOOK 1172, PAGE 11, MCR
R5 – FINAL PLAT FOR "VERRADO VICTORY DISTRICT – A REPLAT OF PHASE 2 RECORDED IN BK 1249, PG 19 MCR, EXCEPT TRACTS B1, P1, Q3, AND A PART OF H4, AND A REPLAT OF A PORTION OF TRACT "I" OF THE FINAL PLAT FOR "VERRADO VICTORY DISTRICT PHASE 3 – PARCEL 3A AND A RE–PLAT OF TRACT A1 PER VERRADO VICTORY DISTRICT – PHASE 1 RECORDED IN BK 1172, PG 11 MCR AND A RE–PLAT OF A PART OF TRACTS E3 PER VERRADO VICTORY DISTRICT – PHASE 2 RECORDED IN BK 1249, PG 19 MCR' BEING RECORDED IN BK 1290, PG 35 MCR", RECORDED AS BOOK 1300, PAGE 14, MCR.
R6 – FINAL PLAT FOR "VERRADO VICTORY DISTRICT – PHASE 5", RECORDED AS BOOK 1469, PAGE 43, MCR.
R7 – FINAL PLAT FOR "VERRADO VICTORY DISTRICT – PHASE 6", RECORDED AS BOOK 1510, PAGE 14, MCR.



VICINITY MAP

SECTIONS 7 & 18, T2N, R2W
NOT TO SCALE

PROPERTY OWNER

FIDELITY NATIONAL TITLE AS TRUSTEE, TRUST NO. B176
14000 NORTH PIMA ROAD, SUITE 100
SCOTTSDALE, AZ 85260
TEL: (480) 214–4523
CONTACT: BRENDA TUCSON, TRUSTEE
EMAIL: BRENDA.TUCSON@FNF.COM

ENGINEER/SURVEYOR

HOSKIN RYAN CONSULTANTS, INC.
5050 N. 40TH STREET, SUITE 100
PHOENIX, AZ 85018
TEL: (602) 252–8384
FAX: (602) 252–8385
CONTACT: THOMAS E. GRANILLO
EMAIL: TGRANILLO@HUITT–ZOLLARS.COM

DEVELOPER

VERRADO ARC, LLC
6263 N. SCOTTSDALE ROAD, SUITE 330
SCOTTSDALE, AZ 85258
TEL: (480) 367–7619
CONTACT: DAVE NILSEN
EMAIL: DNILSEN@DMBINC.COM

BASIS OF BEARING

THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 18, TOWNSHIP 2 NORTH, RANGE 2 WEST, OF THE GILA & SALT RIVER BASE & MERIDIAN, HAVING A BEARING OF SOUTH 89°52'23" WEST, AS SHOWN ON RESULTS OF SURVEY RECORDED IN BOOK 602 OF MAPS, PAGE 30, RECORDS OF MARICOPA COUNTY, ARIZONA.

SURVEY BENCHMARK

MARICOPA COUNTY GEODECTIC CONTROL MONUMENT
BRASS CAP FLUSH IN CONCRETE
NATIONAL GEODECTIC SURVEY PID BBCM34
PROJECT ELEVATION 1063.15 (NGVD29)
LOCATED 430 FEET SOUTH OF SOUTH OFF RAMP OF JACKRABBIT ROAD AND I–10
7 FEET NORTH OF CANAL ACCESS GATE
7 FEET WEST OF GUARDRAIL ON WEST SIDE OF JACKRABBIT ROAD
PROJECT DATA (NGVD29) +2.04=NAVD88

VERRADO SITE BENCHMARK #1
BRASS MONUMENT ON HEADWALL AT INDIAN SCHOOL ROAD AND VERRADO WAY = 1305.85 (NGVD29 DATUM)

VERRADO SITE BENCHMARK #2
BRASS MONUMENT ON HEADWALL AT INDIAN SCHOOL ROAD AND ACACIA WAY = 1219.86 (NGVD29 DATUM)

SHEET INDEX

SHEET 1	COVER, NOTES, AND SITE INFO
SHEET 2	SECTIONAL LAYOUT, BOUNDARY AND KEY MAP
SHEET 3	LEGEND, LOT AREA, TRACT AREA & USE TABLE AND RIGHT–OF–WAY TABLE PROJECT SUMMARY TABLE, PUE DIMENSION DETAIL, VISIBILITY EASEMENT DETAILS, & CMP DEVELOPMENT OPTIONS
SHEET 4 – 8	PLAT SHEETS
SHEET 9	LINE AND CURVE TABLES

SURVEYOR'S CERTIFICATION

I, THOMAS E. GRANILLO, A DULY REGISTERED LAND SURVEYOR IN THE STATE OF ARIZONA, DO HEREBY CERTIFY THAT THE SUBDIVISION PLATTED HEREON, CONSISTING OF NINE (9) SHEETS, HAS BEEN PREPARED FROM A SURVEY MADE UNDER MY DIRECT SUPERVISION DURING THE MONTH OF AUGUST 2020, AND ACCURATELY REPRESENTS THE PROPERTY DESCRIBED HEREON. I FURTHER CERTIFY THAT THE EXTERIOR BOUNDARIES OF SAID SUBDIVISION ARE, OR WILL BE MONUMENTED IN ACCORDANCE WITH THE "ARIZONA BOUNDARY SURVEY MINIMUM STANDARDS" ADOPTED ON 13 FEBRUARY 2002, AND THAT THE SIZE, LOCATION AND MATERIAL AS SHOWN HEREON ARE ACCURATE AS OF THE DATE OF THIS CERTIFICATION.

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
55545
THOMAS E. GRANILLO
ARIZONA U.S.A.

THOMAS E. GRANILLO, RLS
ARIZONA R.L.S. 55545

7/13/2021
DATE

EXPIRES 12/31/2022

SEE SHEET 3 FOR LOT, TRACT & ROW TABLES, VISIBILITY EASEMENTS
SEE SHEET 10 FOR LINE & CURVE TABLES.

AREA 38.715 AC

Job No: R311087.03

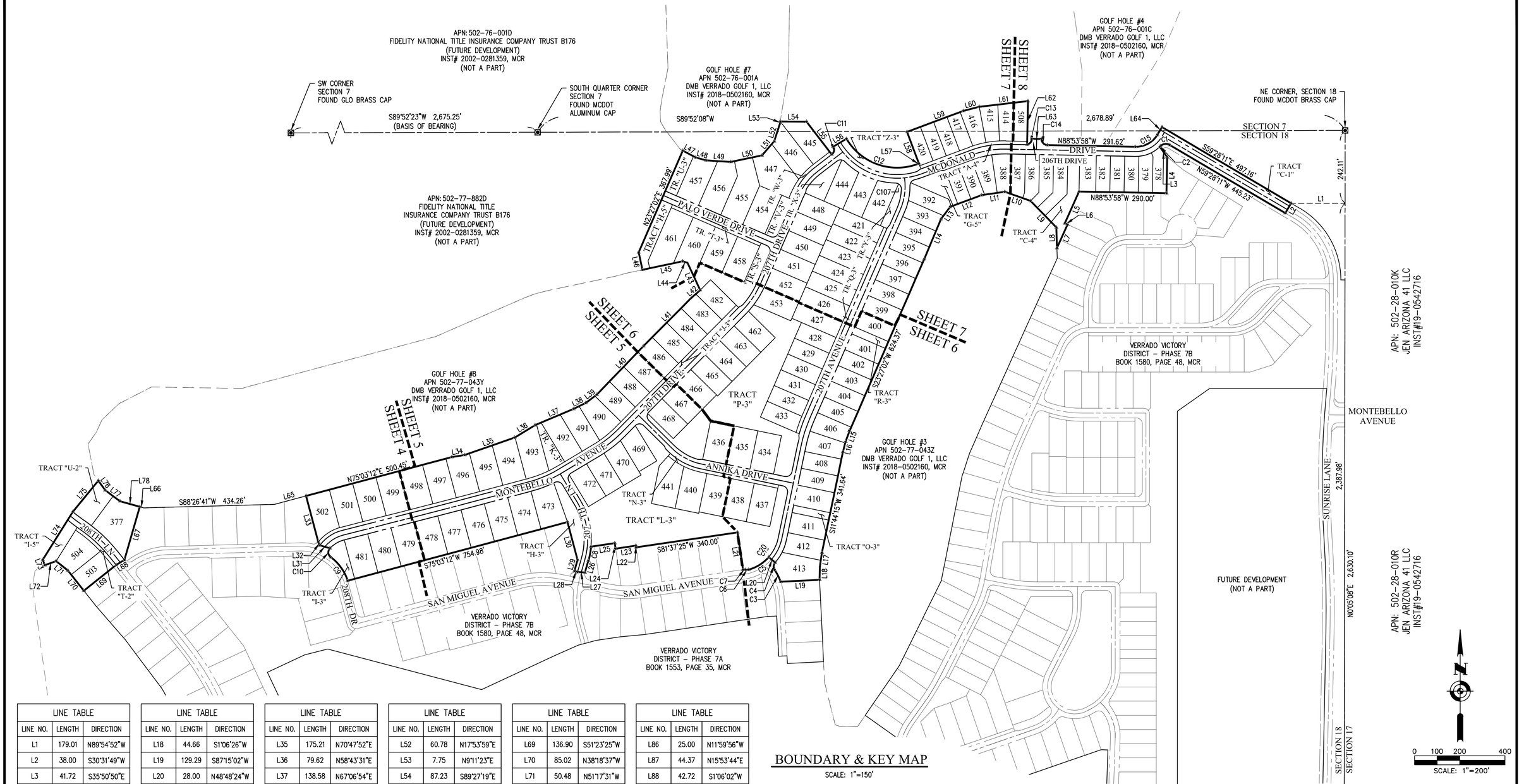
PLZV - 20-00028

SHEET 1 OF 9

Date: 7/13/2021

Hoskin • Ryan Consultants Inc.
A Huitt–Zollars Company
5050 N. 40th Street, Suite #100
Phoenix, Arizona 85018
Office: (602) 252-8384 Fax: (602) 252-8385 www.hoskinryan.com
Land Planning • Hydrology • Land Development • Civil Engineering • Surveying

C:\projects\R311087.03 – Victory Ph 7 and 8 – Final Design Svcs\10 CADD & BIM\10.1 AutoCAD\Survey\8 FP\311087S–FP01.dwg



BOUNDARY & KEY MAP

SCALE: 1"=150'

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L1	179.01	N89°54'52"W
L2	38.00	S30°31'49"W
L3	41.72	S35°50'50"E
L4	120.00	S1°06'02"W
L5	115.76	S24°10'31"W
L6	10.00	S65°41'16"E
L7	85.43	S24°18'44"W
L8	68.44	N1°40'26"W
L9	122.47	N44°12'48"W
L10	90.92	N70°28'49"W
L11	77.90	S81°52'04"W
L12	111.50	S69°30'33"W
L13	50.80	S36°38'21"W
L14	143.93	S22°40'59"W
L15	35.00	S20°30'45"W
L16	35.01	S14°39'47"W
L17	46.21	S8°41'13"W

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L18	44.66	S1°06'26"W
L19	129.29	S87°15'02"W
L20	28.00	N48°48'24"W
L21	125.00	N8°22'35"W
L22	5.45	N8°22'35"W
L23	68.00	S81°37'25"W
L24	18.41	N8°22'35"W
L25	79.89	S81°32'19"W
L26	41.87	S15°53'44"W
L27	24.52	N85°53'14"W
L28	11.00	N74°06'16"W
L29	38.62	N15°53'44"E
L30	130.00	N14°56'48"W
L31	34.95	N74°08'40"W
L32	12.61	N23°08'06"W
L33	157.84	N14°56'48"W
L34	43.29	N80°58'24"E

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L35	175.21	N70°47'52"E
L36	79.62	N58°43'31"E
L37	138.58	N67°06'54"E
L38	45.35	N63°50'44"E
L39	45.95	N53°04'00"E
L40	223.20	N43°50'04"E
L41	223.81	N44°44'44"E
L42	40.59	N49°03'42"E
L43	99.98	N24°49'40"W
L44	17.08	N72°12'25"W
L45	136.48	S78°00'04"W
L46	59.27	N11°59'56"W
L47	48.26	S61°54'23"E
L48	36.14	S74°22'45"E
L49	81.56	S86°31'54"E
L50	105.98	N78°19'20"E
L51	62.27	N40°47'04"E

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L52	60.78	N17°53'59"E
L53	7.75	N9°11'23"E
L54	87.23	S89°27'19"E
L55	137.05	S37°33'18"E
L56	51.00	N59°26'24"E
L57	4.37	N69°30'33"E
L58	112.10	N20°29'27"W
L59	199.58	N69°30'33"E
L60	54.30	N75°35'21"E
L61	162.58	N83°24'44"E
L62	144.03	S1°06'02"W
L63	32.00	S88°53'58"E
L64	29.98	N31°50'33"E
L65	108.35	S75°03'12"W
L66	13.14	N74°05'08"W
L67	183.27	S16°13'56"W
L68	32.23	S58°13'06"W

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L69	136.90	S51°23'25"W
L70	85.02	N38°18'37"W
L71	50.48	N51°17'31"W
L72	40.00	S70°23'57"W
L73	19.38	N19°36'03"W
L74	187.66	N32°05'37"E
L75	133.43	N39°22'25"E
L76	38.90	S35°27'58"E
L77	61.39	S53°31'23"E
L78	68.21	S74°05'08"E
L79	5.84	S31°50'33"W
L80	36.00	N1°06'02"E
L81	8.44	S45°18'45"E
L82	25.58	S20°29'27"E
L83	16.00	S1°06'02"W
L84	37.80	N46°07'36"E
L85	12.10	N35°50'50"W

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L86	25.00	N11°59'56"W
L87	44.37	N15°53'44"E
L88	42.72	S1°06'02"W
L89	72.00	S1°06'02"W
L90	18.98	S31°50'33"W
L91	18.98	N31°50'33"E
L92	72.64	S45°47'12"W
L93	32.87	N38°36'35"W
L94	54.77	N42°00'53"E
L95	38.95	S44°08'08"W
L96	19.70	S19°31'11"W
L97	23.63	N88°53'58"W
L98	40.00	S45°28'30"W
L99	40.00	N45°28'30"E
L100	14.38	N22°41'26"W
L101	34.00	N58°28'42"E
L102	34.33	S59°28'11"E

CURVE TABLE					
CURVE NO.	RADIUS	DELTA	LENGTH	CHD LENGTH	CHD DIRECTION
C1	25.00'	75°38'52"	33.01'	30.66	S82°42'23"W
C2	116.00'	1°39'45"	3.37'	3.37	S45°42'49"W
C3	196.00'	12°57'21"	44.32'	44.23	N26°56'30"W
C4	20.00'	74°36'46"	26.04'	24.24	N3°53'13"E
C5	138.00'	33°29'15"	80.66'	79.51	S57°56'13"W
C6	20.00'	29°46'37"	10.39'	10.28	S89°34'09"W
C7	20.00'	22°50'03"	7.97'	7.92	N86°57'34"W
C8	252.00'	10°32'10"	46.34'	46.27	S10°37'39"W

CURVE TABLE					
CURVE NO.	RADIUS	DELTA	LENGTH	CHD LENGTH	CHD DIRECTION
C9	162.00'	34°31'29"	97.62'	96.15	N35°41'37"W
C10	20.00'	96°19'07"	33.62'	29.80	N4°47'48"W
C11	20.00'	83°00'18"	28.97'	26.51	N10°56'33"E
C12	195.00'	79°55'52"	272.04'	250.51	S70°31'32"E
C13	20.00'	76°26'07"	26.68'	24.75	N39°19'06"E
C14	20.00'	90°00'00"	31.42'	28.28	S43°53'58"E
C15	84.00'	59°15'29"	86.88'	83.06	N61°28'17"E

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
55545
THOMAS E. GRANILLO
ARIZONA U.S.A.
EXPIRES 12/31/2022

SEE SHEET 3 FOR LOT, TRACT & ROW TABLES, VISIBILITY EASEMENTS
SEE SHEET 10 FOR LINE & CURVE TABLES,

AREA 38.715 AC

PLZV - 20-00028

SHEET 2 OF 9

Job No: R311087.03

Date: 7/13/2021

C:\projects\R311087.03 - Victory Ph 7 and 8 - Final Design Svcs\10 CADD & BIM\10.1 AutoCAD\Survey\8 FP\311087S-FP02.dwg

Hoskin•Ryan Consultants Inc.
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Phoenix, Arizona 85018
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Land Planning • Hydrology • Land Development • Civil Engineering • Surveying

ROW AREA TABLE		
LOT NO.	AREA (SF)	AREA (ACRE)
206TH DRIVE	812	0.019
207TH AVENUE	40,671	0.934
207TH DRIVE	33,431	0.767
207TH LANE	8,189	0.188
208TH LANE	7,290	0.167
ANNIKA DRIVE	16,553	0.380
MCDONALD DRIVE	34,713	0.796
MONTE BELLO AVENUE	36,793	0.845
PALO VERDE DRIVE	12,980	0.298
SUNRISE LANE (CFD)	13,574	0.312
TOTAL	205,007	4.706

LEGEND

◙	INDICATES SECTION CORNER, AS NOTED		
◬	INDICATES CORNER OF SUBDIVISION SET 1/2" REBAR WITH CAP OF RLS# 55545		
◉	SET CENTERLINE MONUMENT. SET BRASS CAP PER MAG STD DET 120, TYPE "B" (UNLESS OTHERWISE SPECIFIED), IN CONJUNCTION WITH THE CONSTRUCTION PER THE APPROVED IMPROVEMENT PLANS.		
◎	EXISTING CENTERLINE MONUMENT		
C#	CURVE NUMBER	L#	LINE NUMBER
R/W	RIGHT-OF-WAY	COR	CORNER
SEC	SECTION	FD	FOUND
NE	NORTHEAST	SE	SOUTHEAST
NW	NORTHWEST	SW	SOUTHWEST
BK	BOOK	PG	PAGE
EXIST	EXISTING	DKT	DOCKET
ESMT	EASEMENT	S/W	SIDEWALK
MCR	MARICOPA COUNTY RECORDS	LE	LANDSCAPE EASEMENT
		LSWE	LANDSCAPE AND SIDEWALK EASEMENT
DE	DRAINAGE EASEMENT		
WE	WATER EASEMENT	SDE	STORM DRAIN EASEMENT
PUE	PUBLIC UTILITY EASEMENT	SSE	SANITARY SEWER EASEMENT
		VNAE	VEHICULAR NON-ACCESS EASEMENT
VTE	VISIBILITY TRIANGLE EASEMENT		
		SVE	SIGHT VISIBILITY EASEMENT

EASEMENT

RIGHT-OF-WAY

LOT & TRACT LINE

CENTERLINE

BOUNDARY LINE

MATCH LINE

DENOTES EXISTING FLOODPLAIN

SECTION LINE

MID-SECTION LINE

① VISIBILITY TRIANGLE EASEMENT

② SIGHT VISIBILITY EASEMENT

CMP DEVELOPMENT OPTIONS				
VERRADO VICTORY DISTRICT PHASE 8				
DEVELOPMENT OPTION	RM	RM	RL	RL
PRODUCT	47C	57C	68C	80C
NUMBER OF LOTS	22	31	40	36
STANDARD LOT SIZE (FT)	47' X 120'	57' X 120'	68' x 120'	80' X 130'
STANDARD LOT SIZE (SF)	5,640	6,840	8,160	10,400
MINIMUM LOT WIDTH (FT)	47'	57'	68'	80'
SMALLEST LOT SIZE (SF)	5,640	6,895	8,158	10,400
LARGEST LOT SIZE (SF)	9,217	9,105	15,212	17,267
AVERAGE LOT SIZE (SF)	6,341	7,551	9,027	11,336

TRACT AREA & USE TABLE			
TRACT NAME	AREA (SF)	AREA (ACRE)	USE
TRACT "A-4"	4,047	0.093	PARKWAY, LOT ACCESS, LANDSCAPE / SIDEWALK
TRACT "C-1"	5,470	0.126	DRAINAGE, LANDSCAPE
TRACT "C-4"	12,299	0.282	DRAINAGE, CART PATH, LANDSCAPE / SIDEWALK
TRACT "G-5"	7,826	0.180	LANDSCAPE
TRACT "H-3"	10,150	0.233	LANDSCAPE / SIDEWALK
TRACT "H-5"	8,908	0.204	DRAINAGE, CART PATH, LANDSCAPE / SIDEWALK
TRACT "I-3"	5,547	0.127	LANDSCAPE
TRACT "I-5"	6,133	0.141	DRAINAGE, CART PATH, LANDSCAPE / SIDEWALK
TRACT "J-3"	18,077	0.415	PARKWAY, LOT ACCESS, LANDSCAPE / SIDEWALK

TRACT AREA & USE TABLE			
TRACT NAME	AREA (SF)	AREA (ACRE)	USE
TRACT "K-3"	5,866	0.135	LANDSCAPE / SIDEWALK
TRACT "L-3"	96,125	2.207	LANDSCAPE / SIDEWALK
TRACT "N-3"	4,186	0.096	PARKWAY, LOT ACCESS, LANDSCAPE / SIDEWALK
TRACT "O-3"	3,099	0.071	DRAINAGE, LANDSCAPE
TRACT "P-3"	76,385	1.754	LANDSCAPE / SIDEWALK
TRACT "Q-3"	8,153	0.187	PARKWAY, LOT ACCESS, LANDSCAPE / SIDEWALK
TRACT "R-3"	3,048	0.070	DRAINAGE, LANDSCAPE
TRACT "S-3"	17,885	0.411	LANDSCAPE / SIDEWALK
TRACT "T-2"	1,960	0.045	PARKWAY, LOT ACCESS, LANDSCAPE / SIDEWALK

TRACT AREA & USE TABLE			
TRACT NAME	AREA (SF)	AREA (ACRE)	USE
TRACT "T-3"	3,520	0.081	PARKWAY, LOT ACCESS, LANDSCAPE / SIDEWALK
TRACT "U-2"	9,220	0.212	DRAINAGE, CART PATH, LANDSCAPE / SIDEWALK
TRACT "U-3"	5,779	0.133	DRAINAGE, CART PATH, LANDSCAPE / SIDEWALK
TRACT "V-3"	5,556	0.128	LANDSCAPE / SIDEWALK
TRACT "W-3"	2,270	0.052	PARKWAY, LOT ACCESS, LANDSCAPE / SIDEWALK
TRACT "X-3"	6,796	0.156	LANDSCAPE
TRACT "Y-3"	3,681	0.085	LANDSCAPE / SIDEWALK
TRACT "Z-3	6,691	0.154	LANDSCAPE / SIDEWALK

LOT AREA TABLE		
LOT NO.	AREA (SF)	AREA (ACRE)
377	17,267	0.396
378	6,635	0.152
379	5,905	0.136
380	5,643	0.130
381	5,640	0.129
382	5,640	0.129
383	6,600	0.152
384	9,217	0.212
385	7,707	0.177
386	6,877	0.158
387	6,508	0.149
388	6,937	0.159
389	7,016	0.161
390	5,650	0.130
391	5,640	0.129
392	7,928	0.182
393	6,926	0.159
394	6,895	0.158
395	6,937	0.159
396	6,950	0.160
397	6,950	0.160
398	6,950	0.160

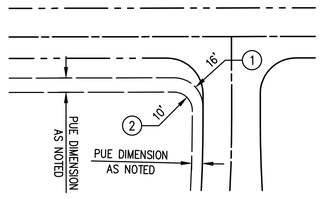
LOT AREA TABLE		
LOT NO.	AREA (SF)	AREA (ACRE)
399	6,950	0.160
400	6,950	0.160
401	6,950	0.160
402	6,950	0.160
403	6,950	0.160
404	6,950	0.160
405	6,950	0.160
406	7,465	0.171
407	7,718	0.177
408	7,067	0.162
409	7,067	0.162
410	8,430	0.194
411	8,430	0.194
412	8,532	0.196
413	11,760	0.270
414	6,055	0.139
415	6,451	0.148
416	6,667	0.153
417	5,646	0.130
418	5,645	0.130
419	5,645	0.130
420	5,645	0.130

LOT AREA TABLE		
LOT NO.	AREA (SF)	AREA (ACRE)
421	9,105	0.209
422	9,105	0.209
423	9,105	0.209
424	9,105	0.209
425	9,105	0.209
426	9,105	0.209
427	9,105	0.209
428	7,125	0.164
429	7,125	0.164
430	7,125	0.164
431	7,125	0.164
432	7,125	0.164
433	7,209	0.165
434	10,400	0.239
435	10,400	0.239
436	10,400	0.239
437	10,400	0.239
438	10,400	0.239
439	10,400	0.239
440	10,934	0.251
441	12,079	0.277
442	9,661	0.222

LOT AREA TABLE		
LOT NO.	AREA (SF)	AREA (ACRE)
443	8,987	0.206
444	9,605	0.221
445	10,500	0.241
446	10,784	0.248
447	15,212	0.349
448	8,497	0.195
449	8,500	0.195
450	8,500	0.195
451	8,500	0.195
452	8,500	0.195
453	8,720	0.200
454	11,280	0.259
455	15,862	0.364
456	13,351	0.306
457	11,881	0.273
458	10,400	0.239
459	10,400	0.239
460	12,621	0.290
461	15,352	0.352
462	8,501	0.195
463	8,500	0.195
464	8,500	0.195

LOT AREA TABLE		
LOT NO.	AREA (SF)	AREA (ACRE)
465	8,500	0.195
466	8,160	0.187
467	8,160	0.187
468	8,158	0.187
469	8,794	0.202
470	8,734	0.200
471	8,502	0.195
472	8,496	0.195
473	11,346	0.260
474	10,400	0.239
475	10,400	0.239
476	10,402	0.239
477	10,427	0.239
478	10,484	0.241
479	10,551	0.242
480	10,619	0.244
481	10,694	0.245
482	8,175	0.188
483	8,356	0.192
484	8,378	0.192
485	8,383	0.192
486	8,382	0.192

LOT AREA TABLE		
LOT NO.	AREA (SF)	AREA (ACRE)
487	8,326	0.191
488	8,257	0.190
489	8,193	0.188
490	9,933	0.228
491	9,336	0.214
492	9,988	0.229
493	12,243	0.281
494	11,213	0.257
495	10,736	0.246
496	10,595	0.243
497	10,727	0.246
498	10,669	0.245
499	10,602	0.243
500	10,534	0.242
501	10,467	0.240
502	11,174	0.257
503	8,531	0.196
504	10,717	0.246
508	6,130	0.141



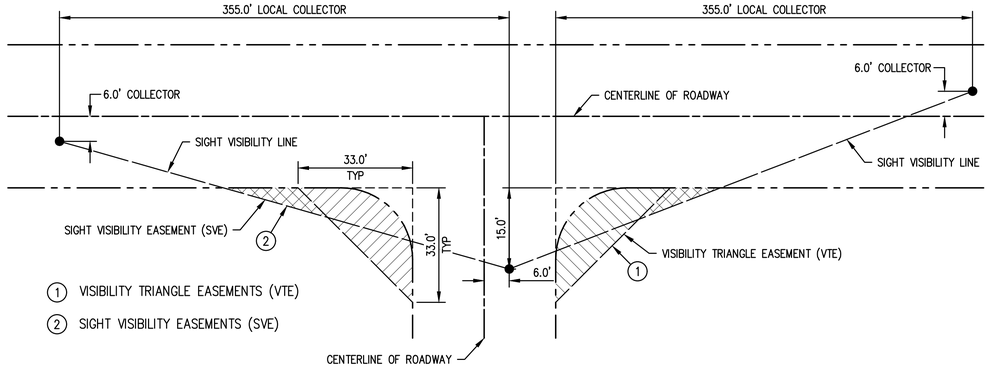
PUE TYPICAL DIMENSION DETAIL

NOT TO SCALE

① RADIUS PUE OUTER TRANSITION (TYPICAL)

② RADIUS PUE INNER TRANSITION (TYPICAL)

PROJECT SUMMARY	
PROJECT AREAS	AREA (ACRES)
LOT AREAS	26.234
TRACT AREAS	7.775
RIGHT-OF-WAY AREA	4.706
TOTAL	38.715



VISIBILITY EASEMENTS DETAIL

NOT TO SCALE

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
55545
THOMAS E. GRANILLO
ARIZONA, U.S.A.

EXPIRES 12/31/2022

SEE SHEET 3 FOR LOT, TRACT & ROW TABLES, VISIBILITY EASEMENTS
SEE SHEET 10 FOR LINE & CURVE TABLES,

AREA 38.715 AC

PLZV - 20-00028

SHEET 3 OF 9

Job No: R311087.03

Date: 7/13/2021

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Land Planning • Hydrology • Land Development • Civil Engineering • Surveying

GOLF HOLES #8
APN 502-77-043Y
DMB VERRADO GOLF 1, LLC
INST# 2018-0502160, MCR

S88°26'41"W 434.26'

MONTEBELLO AVENUE

VICTORY AT VERRADO
PHASE 7B
BOOK 1580, PAGE 48, MCR

GOLF HOLE #9
APN 502-77-043X
DMB VERRADO GOLF 1, LLC
INST# 2018-0502160, MCR
(NOT A PART)

TRACT "U-2"

TEMPORARY TURNAROUND EASEMENT

377

504

503

TRACT "I-5"

TRACT "I-2"

20TH LANE

TRACT "I-3"

208TH DRIVE

TRACT "J-3"

MONTEBELLO AVENUE

SAN MIGUEL AVENUE

499

500

501

502

479

480

481

N75°03'12"E 500.45'

N14°56'48"W 132.94'

N14°56'48"W 132.10'

N14°56'48"W 131.25'

N14°56'48"W 130.51'

N14°56'48"W 157.84'

N14°56'48"W 131.47'

N14°56'48"W 132.31'

N14°56'48"W 133.16'

N14°56'48"W 134.00'

S75°39'27"W 300.36'

N67°13'56"E 183.27'

N36°29'37"E 121.77'

N39°22'25"E 133.43'

N32°11'46"E 132.10'

N51°23'25"E 124.09'

SHEET 5

SCALE: 1"=40'

0 20 40 80

SEE SHEET 3 FOR LOT, TRACT & ROW TABLES, VISIBILITY EASEMENTS
SEE SHEET 10 FOR LINE & CURVE TABLES,

AREA 38.715 AC

PLZV - 20-00028

SHEET 4 OF 9

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Job No: R311087.03

Date: 7/13/2021

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EXPIRES 12/31/2022

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GOLF HOLES #8
APN 502-77-043Y
DMB VERRADO GOLF 1, LLC
INST# 2018-0502160, MCR

SEE SHEET 4

SEE SHEET 6

SEE SHEET 6 (LEFT)

SEE SHEET 6 (LEFT)

MONTEBELLO AVENUE

MONTEBELLO AVENUE

TRACT "J-3"

TRACT "K-3"

TRACT "H-3"

TRACT "P-3"

TRACT "L-3"

TRACT "N-3"

207TH DRIVE

207TH LANE

ANNIKA DRIVE

SAN MIGUEL AVENUE

SAN MIGUEL AVENUE

VICTORY AT VERRADO
PHASE 7B
BOOK 1580, PAGE 48, MCR

VICTORY AT VERRADO
PHASE 7B
BOOK 1580, PAGE 48, MCR

487 488 489 490 491 492 493 494 495 496 497 498 467 468 469 470 471 472 473 474 475 476 477 478 436 441 440 439

SCALE: 1"=40'

SEE SHEET 3 FOR LOT, TRACT & ROW TABLES, VISIBILITY EASEMENTS
SEE SHEET 10 FOR LINE & CURVE TABLES,

AREA 38.715 AC

PLZV - 20-00028

SHEET 5 OF 9

Date: 7/13/2021

Job No: R311087.03

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REGISTERED LAND SURVEYOR
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EXPIRES 12/31/2022

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GOLF HOLES #8
APN 502-77-043Y
DMB VERRADO GOLF 1, LLC
INST# 2018-0502160, MCR

GOLF HOLE #3
APN 502-77-043Z
DMB VERRADO GOLF 1, LLC
INST# 2018-0502160, MCR

SEE SHEET 7

SEE THIS SHEET (RIGHT)

SEE SHEET 5

SEE THIS SHEET (LEFT)

SEE SHEET 5

SEE SHEET 5

TRACT "S-3"

TRACT "P-3"

TRACT "P-3"

TRACT "N-3"

TRACT "L-3"

TRACT "O-3"

TRACT "R-3"

TRACT "Q-3"

ANNIKA DRIVE

207TH AVENUE

207TH AVENUE

207TH AVENUE

207TH

TRACT "L-3"

TRACT "O-3"

TRACT "P-3"

TRACT "R-3"

TRACT "Q-3"

N78°15'45"W 240.00'

N66°32'58"W 180.00'

N66°32'58"W 125.07'

N66°32'58"W 133.92'

N66°32'58"W 159.74'

N66°32'58"W 121.93'

N66°32'58"W 125.00'

N66°32'58"W 121.93'

N66°32'58"W 125.00'

N66°32'58"W 121.93'

N66°32'58"W 125.00'

N66°32'58"W 121.93'

N66°32'58"W 125.05'

N66°32'58"W 121.93'

N66°32'58"W 140.02'

N66°32'58"W 121.93'

N78°15'45"W 123.98'

N78°15'45"W 131.18'

N78°15'45"W 123.98'

N71°30'36"W 123.04'

N78°15'45"W 123.98'

N78°15'45"W 80.00'

N78°15'45"W 80.00'

S78°15'45"E 310.48'

S43°50'04"W 26.94'

S44°43'10"W 48.78'

S11°44'15"E 341.64'

S11°44'15"E 130.00'

N11°44'15"E 130.00'

S11°44'15"E 130.00'

N11°44'15"E 130.00'

N11°44'15"E 141.00'

S11°44'15"E 130.00'

N11°44'15"E 130.00'

S11°44'15"E 130.00'

N11°44'15"E 130.00'

S11°44'15"E 130.00'

N11°44'15"E 130

GOLF HOLES #7
APN 502-76-001A
DMB VERRADO GOLF 1, LLC
INST# 2018-0502160, MCR

APN 502-76-001D
FIDELITY NATIONAL TITLE
INSURANCE COMPANY TR B176
INST# 2002-0281359, MCR
(FUTURE DEVELOPMENT)

APN 502-77-882D
FIDELITY NATIONAL TITLE
INSURANCE COMPANY TR B176
INST# 2002-0281359, MCR
(FUTURE DEVELOPMENT)

SEE SHEET 8

GOLF HOLE #3
APN 502-77-043Z
DMB VERRADO GOLF 1, LLC
INST# 2018-0502160, MCR

GOLF HOLES #8
APN 502-77-043Y
DMB VERRADO GOLF 1, LLC
INST# 2018-0502160, MCR

SEE SHEET 6

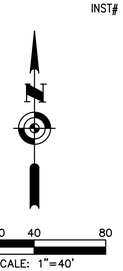
PALO VERDE DRIVE

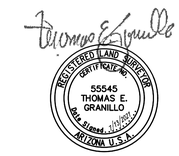
207TH AVENUE

MCDONALD DRIVE

TRACT "U-3"
TRACT "W-3"
TRACT "Z-3"
TRACT "A-4"
TRACT "X-3"
TRACT "G-5"
TRACT "V-3"
TRACT "H1-5"
TRACT "T-3"
TRACT "S-3"
TRACT "Q-3"

457 456 455 454 461 460 459 458 447 446 445 448 449 450 451 452 444 443 442 421 422 423 424 425 426 420 419 418 417 416 415 414 391 390 389 388 392 393 394 395 396 397 398 399





EXPIRES 12/31/2022

SEE SHEET 3 FOR LOT, TRACT & ROW TABLES, VISIBILITY EASEMENTS
SEE SHEET 10 FOR LINE & CURVE TABLES,

AREA 38.715 AC

PLZV - 20-00028

SHEET 7 OF 9

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Job No: R311087.03

Date: 7/13/2021

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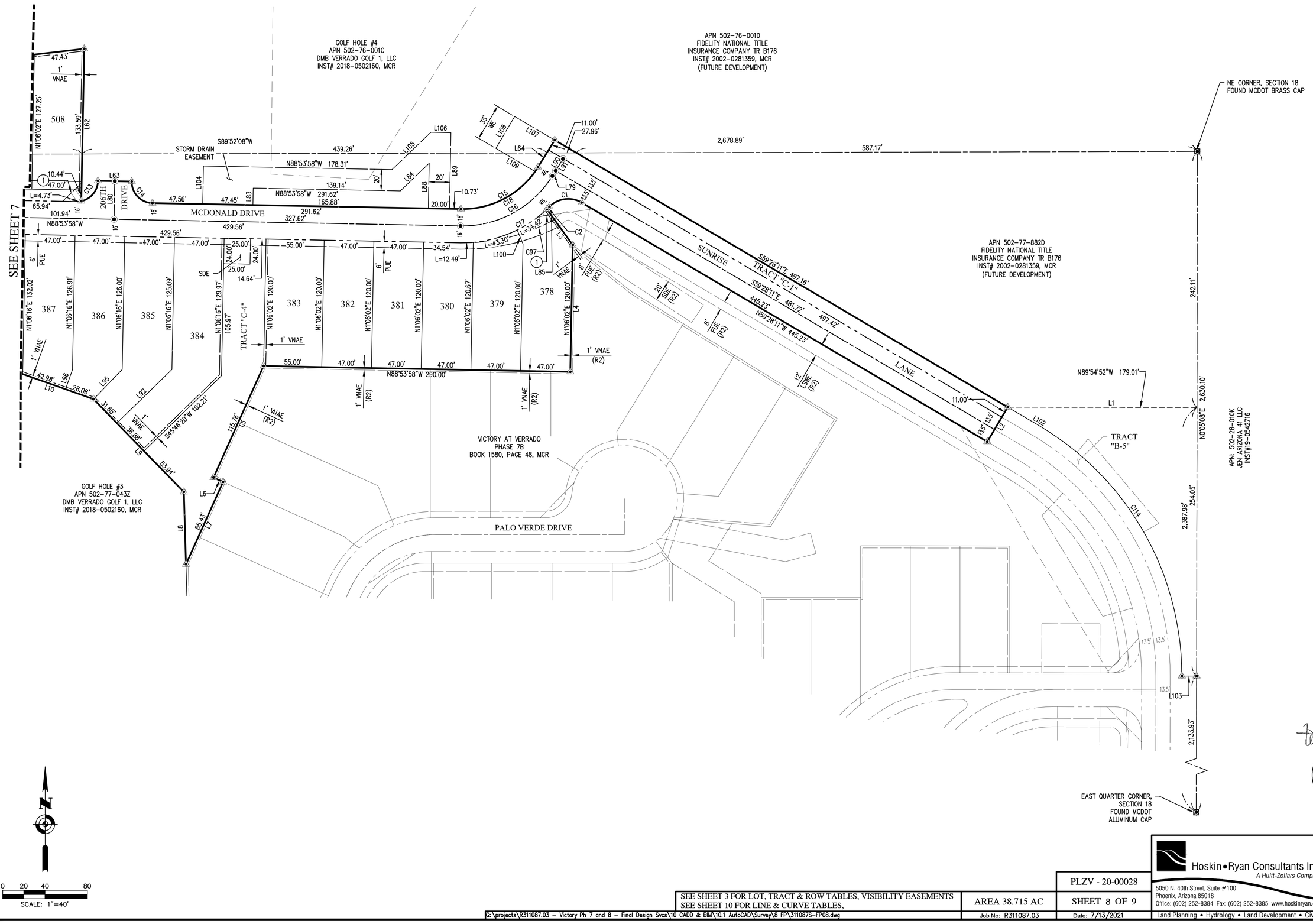

SEE SHEET 3 FOR LOT, TRACT & ROW TABLES, VISIBILITY EASEMENTS
SEE SHEET 10 FOR LINE & CURVE TABLES,

AREA 38.715 AC

PLZV - 20-00028

SHEET 8 OF 9

G:\projects\R311087.03 – Victory Ph 7 and 8 – Final Design Svcs\10 CADD & BIM\10.1 AutoCAD\Survey\8 FP\311087S-FP08.dwg

Job No: R311087.03

Date: 7/13/2021

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
55545
THOMAS E. GRANILLO
ARIZONA U.S.A.

EXPIRES 12/31/2022

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CURVE TABLE					
CURVE NO.	RADIUS	DELTA	LENGTH	CHD LENGTH	CHD DIRECTION
C1	25.00'	75°38'52"	33.01'	30.66	S82°42'23"W
C2	116.00'	1°39'45"	3.37'	3.37	S45°42'49"W
C3	196.00'	12°57'21"	44.32'	44.23	N26°56'30"W
C4	20.00'	74°36'46"	26.04'	24.24	N3°53'13"E
C5	138.00'	33°29'15"	80.66'	79.51	S57°56'13"W
C6	20.00'	29°46'37"	10.39'	10.28	S89°34'09"W
C7	20.00'	22°50'03"	7.97'	7.92	N86°57'34"W
C8	252.00'	10°32'10"	46.34'	46.27	S10°37'39"W
C9	162.00'	34°31'29"	97.62'	96.15	N35°41'37"W
C10	20.00'	96°19'07"	33.62'	29.80	N4°47'48"W
C11	20.00'	83°00'18"	28.97'	26.51	N10°56'33"E
C12	195.00'	79°55'52"	272.04'	250.51	S70°31'32"E
C13	20.00'	76°26'07"	26.68'	24.75	N39°19'06"E
C14	20.00'	90°00'00"	31.42'	28.28	S43°53'58"E
C15	84.00'	59°15'29"	86.88'	83.06	N61°28'17"E
C16	100.00'	59°15'29"	103.42'	98.88	N61°28'17"E
C17	116.00'	17°00'02"	34.42'	34.29	N55°02'43"E
C18	84.00'	59°15'29"	86.88'	83.06	N61°28'17"E
C19	125.00'	68°57'08"	150.43'	141.52	N46°12'49"E
C20	125.00'	66°03'05"	144.10'	136.25	S44°45'48"E

CURVE TABLE					
CURVE NO.	RADIUS	DELTA	LENGTH	CHD LENGTH	CHD DIRECTION
C21	300.00'	21°35'29"	113.05'	112.39	S80°18'17"W
C22	316.00'	21°35'29"	119.08'	118.38	S80°18'17"W
C23	284.00'	12°14'51"	60.71'	60.59	S75°37'58"W
C24	230.00'	79°55'52"	320.86'	295.47	S70°31'32"E
C25	200.00'	31°21'24"	109.45'	108.09	N7°46'20"E
C26	20.00'	25°50'31"	9.02'	8.94	N82°25'48"E
C27	20.00'	25°50'31"	9.02'	8.94	S82°25'48"W
C28	20.00'	24°33'49"	8.57'	8.51	S57°13'38"W
C29	20.00'	28°06'50"	9.81'	9.72	N59°00'08"E
C30	242.00'	6°38'44"	28.07'	28.05	N72°49'55"E
C31	20.00'	47°47'39"	16.68'	16.20	S52°15'27"W
C32	20.00'	62°22'16"	21.77'	20.71	N27°51'02"W
C33	188.00'	20°06'56"	66.00'	65.67	N13°23'34"E
C34	216.00'	13°08'26"	49.54'	49.43	N6°08'17"E
C35	20.00'	25°50'31"	9.02'	8.94	N36°22'18"E
C36	20.00'	25°50'31"	9.02'	8.94	S36°22'18"W
C37	500.00'	11°42'47"	102.22'	102.04	S17°35'39"W
C38	516.00'	7°09'22"	64.45'	64.41	S19°52'21"W
C39	484.00'	6°45'09"	57.04'	57.01	S15°06'50"W
C40	20.00'	26°49'53"	9.37'	9.28	S2°52'44"W

CURVE TABLE					
CURVE NO.	RADIUS	DELTA	LENGTH	CHD LENGTH	CHD DIRECTION
C41	512.00'	2°36'44"	23.34'	23.34	S13°02'37"W
C42	20.00'	24°53'12"	8.69'	8.62	N1°54'23"E
C43	150.00'	29°27'21"	77.12'	76.27	N26°27'55"E
C44	166.00'	15°13'52"	44.13'	44.00	N19°21'11"E
C45	138.00'	29°27'21"	70.95'	70.17	N26°27'55"E
C46	200.00'	32°57'00"	115.02'	113.44	S61°47'15"E
C47	20.00'	23°16'26"	8.12'	8.07	N89°53'58"W
C48	20.00'	28°40'19"	10.01'	9.90	S87°12'01"E
C49	188.00'	27°33'06"	90.40'	89.53	S59°05'18"E
C50	216.00'	30°16'38"	114.14'	112.82	S63°07'26"E
C51	216.00'	2°40'21"	10.08'	10.07	S46°38'56"E
C52	20.00'	25°50'31"	9.02'	8.94	S32°23'30"E
C53	20.00'	25°50'31"	9.02'	8.94	N32°23'30"W
C54	20.00'	90°00'00"	31.42'	28.28	S89°41'15"W
C55	20.00'	72°32'33"	25.32'	23.66	S9°02'29"E
C56	400.00'	14°19'55"	100.06'	99.80	N51°51'12"E
C57	384.00'	14°19'55"	96.05'	95.80	N51°51'12"E
C58	416.00'	9°26'38"	68.57'	68.49	N52°09'19"E
C59	373.00'	10°32'41"	68.65'	68.55	N49°57'35"E
C60	400.00'	16°02'03"	111.94'	111.57	N67°02'11"E

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L1	179.01	N89°54'52"W
L2	38.00	S30°31'49"W
L3	41.72	S35°50'50"E
L4	120.00	S1°06'02"W
L5	115.76	S24°10'31"W
L6	10.00	S65°41'16"E
L7	85.43	S24°18'44"W
L8	68.44	N1°40'26"W
L9	122.47	N44°12'48"W
L10	90.92	N70°28'49"W
L11	77.90	S81°52'04"W
L12	111.50	S69°30'33"W
L13	50.80	S36°38'21"W
L14	143.93	S22°40'59"W
L15	35.00	S20°30'45"W
L16	35.01	S14°39'47"W
L17	46.21	S8°41'13"W
L18	44.66	S1°06'26"W
L19	129.29	S87°15'02"W
L20	28.00	N48°48'24"W

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L21	125.00	N8°22'35"W
L22	5.45	N8°22'35"W
L23	68.00	S81°37'25"W
L24	18.41	N8°22'35"W
L25	79.89	S81°32'19"W
L26	41.87	S15°53'44"W
L27	24.52	N85°53'14"W
L28	11.00	N74°06'16"W
L29	38.62	N15°53'44"E
L30	130.00	N14°56'48"W
L31	34.95	N74°08'40"W
L32	12.61	N23°08'06"W
L33	157.84	N14°56'48"W
L34	43.29	N80°58'24"E
L35	175.21	N70°47'52"E
L36	79.62	N58°43'31"E
L37	138.58	N67°06'54"E
L38	45.35	N63°50'44"E
L39	45.95	N53°04'00"E
L40	223.20	N43°50'04"E

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L41	223.81	N44°44'44"E
L42	40.59	N49°03'42"E
L43	99.98	N24°49'40"W
L44	17.08	N72°12'25"W
L45	136.48	S78°00'04"W
L46	59.27	N11°59'56"W
L47	48.26	S61°54'23"E
L48	36.14	S74°22'45"E
L49	81.56	S86°31'54"E
L50	105.98	N78°19'20"E
L51	62.27	N40°47'04"E
L52	60.78	N17°53'59"E
L53	7.75	N9°11'23"E
L54	87.23	S89°27'19"E
L55	137.05	S37°33'18"E
L56	51.00	N59°26'24"E
L57	4.37	N69°30'33"E
L58	112.10	N20°29'27"W
L59	199.58	N69°30'33"E
L60	54.30	N75°35'21"E

CURVE TABLE					
CURVE NO.	RADIUS	DELTA	LENGTH	CHD LENGTH	CHD DIRECTION
C61	20.00'	66°25'19"	23.19'	21.91	S21°3'49"W
C62	20.00'	85°16'28"	29.77'	27.09	N73°37'04"W
C63	416.00'	10°50'05"	78.67'	78.55	N69°38'10"E
C64	384.00'	16°02'03"	107.46'	107.11	N67°02'11"E
C65	373.00'	11°17'03"	73.46'	73.34	N69°24'41"E
C66	400.00'	0°33'41"	3.92'	3.92	N59°18'00"E
C67	15,000.00'	0°36'15"	158.13'	158.13	N75°21'20"E
C68	14,984.00'	0°36'15"	157.97'	157.97	N75°21'20"E
C69	15,016.00'	0°18'19"	80.00'	80.00	N75°25'47"E
C70	14,973.00'	0°18'22"	80.00'	80.00	N75°26'58"E
C71	115.00'	36°22'25"	73.01'	71.79	S57°28'14"W
C72	99.00'	32°17'41"	55.80'	55.07	S59°30'36"W
C73	131.00'	39°22'24"	90.02'	88.26	S55°58'15"W
C74	142.00'	34°38'59"	85.87'	84.57	S56°11'53"W
C75	516.00'	17°38'58"	158.95'	158.32	N47°26'04"W
C76	500.00'	17°38'58"	154.02'	153.41	N47°26'04"W
C77	484.00'	17°38'58"	149.09'	148.50	N47°26'04"W
C78	473.00'	17°36'48"	145.41'	144.83	N47°24'59"W
C79	300.00'	21°14'13"	111.20'	110.56	N34°04'08"E
C80	316.00'	12°27'29"	68.71'	68.57	N30°51'52"E

CURVE TABLE					
CURVE NO.	RADIUS	DELTA	LENGTH	CHD LENGTH	CHD DIRECTION
C81	288.00'	17°44'11"	89.15'	88.80	N32°19'08"E
C82	20.00'	27°38'50"	9.65'	9.56	N55°00'38"E
C83	20.00'	24°08'49"	8.43'	8.37	S56°45'39"W
C84	20.00'	90°00'00"	31.42'	28.28	N21°32'58"W
C85	20.00'	90°00'00"	31.42'	28.28	N68°27'02"E
C86	20.00'	25°50'31"	9.02'	8.94	S10°31'47"W
C87	20.00'	25°50'31"	9.02'	8.94	N10°31'47"E
C88	200.00'	28°59'40"	101.21'	100.13	S37°56'52"W
C89	184.00'	4°44'14"	15.21'	15.21	S25°49'09"W
C90	20.00'	23°16'26"	8.12'	8.07	N16°33'03"E
C91	20.00'	28°40'19"	10.01'	9.90	S19°15'00"W
C92	216.00'	28°59'40"	109.31'	108.14	S37°56'52"W
C93	188.00'	18°51'33"	61.88'	61.60	S43°00'56"W
C94	20.00'	83°00'18"	28.97'	26.51	N10°56'33"E
C95	20.00'	49°21'33"	17.23'	16.70	S77°07'29"W
C96	227.00'	28°59'40"	114.87'	113.65	S37°56'52"W
C97	177.84'	29°54'08"	92.81'	91.76	N76°08'58"E
C98	327.00'	7°55'51"	45.26'	45.23	S83°24'52"W
C99	240.00'	46°52'34"	196.35'	190.92	N7°32'33"W
C100	228.00'	46°52'34"	186.54'	181.38	N7°32'33"W

CURVE TABLE					
CURVE NO.	RADIUS	DELTA	LENGTH	CHD LENGTH	CHD DIRECTION
C101	252.00'	36°20'25"	159.83'	157.17	N12°48'38"W
C102	246.00'	15°53'20"	68.22'	68.00	S66°51'43"E
C103	218.00'	76°22'51"	290.61'	269.57	S68°45'01"E
C104	284.00'	8°21'13"	41.41'	41.37	S52°04'57"E
C105	300.00'	7°48'56"	40.92'	40.89	S52°21'05"E
C106	316.00'	7°19'55"	40.44'	40.41	S52°35'35"E
C107	16.00'	91°59'57"	25.69'	23.02	N41°55'26"W
C108	20.00'	90°00'00"	31.42'	28.28	N56°44'15"E
C109	20.00'	90°00'00"	31.42'	28.28	N33°15'45"W
C110	300.00'	16°55'20"	88.60'	88.28	S39°58'58"E
C111	284.00'	16°23'02"	81.21'	80.93	S39°42'49"E
C112	50.00'	253°17'50"	221.04'	80.23	S21°49'47"W
C113	70.00'	56°20'38"	68.84'	66.10	N76°38'49"W
C114	274.50'	59°33'19"	285.33'	272.65	S29°41'32"E

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L61	162.58	N83°24'44"E
L62	144.03	S1°06'02"W
L63	32.00	S88°53'58"E
L64	29.98	N31°50'33"E
L65	108.35	S75°03'12"W
L66	13.14	N74°05'08"W
L67	183.27	S16°13'56"W
L68	32.23	S58°13'06"W
L69	136.90	S51°23'25"W
L70	85.02	N38°18'37"W
L71	50.48	N51°17'31"W
L72	40.00	S70°23'57"W
L73	19.38	N19°36'03"W
L74	187.66	N32°05'37"E
L75	133.43	N39°22'25"E
L76	38.90	S35°27'58"E
L77	61.39	S53°31'23"E
L78	68.21	S74°05'08"E
L79	5.84	S31°50'33"W
L80	36.00	N1°06'02"E

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L81	8.44	S45°18'45"E
L82	25.58	S20°29'27"E
L83	16.00	S1°06'02"W
L84	37.80	N46°07'36"E
L85	12.10	N35°50'50"W
L86	25.00	N11°59'56"W
L87	44.37	N15°53'44"E
L88	42.72	S1°06'02"W
L89	72.00	S1°06'02"W
L90	18.98	S31°50'33"W
L91	18.98	N31°50'33"E
L92	72.64	S45°47'12"W
L93	32.87	N38°36'35"W
L94	54.77	N42°00'53"E
L95	38.95	S44°08'08"W
L96	19.70	S19°31'11"W
L97	23.63	N88°53'58"W
L98	40.00	S45°28'30"W
L99	40.00	N45°28'30"E
L100	14.38	N22°41'26"W

LINE TABLE		
LINE NO.	LENGTH	DIRECTION
L101	34.00	N58°28'42"E
L102	34.33	S59°28'11"E
L103	14.00	S89°54'52"E
L104	36.00	S1°06'02"W
L105	50.93	N46°07'36"E
L106	18.99	S88°53'58"E
L107	44.00	S59°28'11"E
L108	35.00	N30°31'49"E
L109	43.05	S59°28'11"E

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
55545
THOMAS E. GRANILLO
ARIZONA U.S.A.

EXPIRES 12/31/2022

SEE SHEET 3 FOR LOT, TRACT & ROW TABLES, VISIBILITY EASEMENTS
SEE SHEET 10 FOR LINE & CURVE TABLES,

AREA 38.715 AC

PLZV - 20-00028

SHEET 9 OF 9

Job No: R311087.03

Date: 7/13/2021

C:\projects\R311087.03 - Victory Ph 7 and 8 - Final Design Svcs\10 CADD & BIM\10.1 AutoCAD\Survey\8 FP\311087S-FP09.dwg

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CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.Z. PLZS-20-00073 Copper Falls Parcel 1 Final Plat
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 1
STAFF LIAISON: Randy Proch, AICP, Senior Planner, rproch@buckeyeaz.gov (623) 986-0701	
DEPARTMENT: Development Services	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council) Council to take action on a final plat for Copper Falls Parcel 1, generally located northwest of the intersection of Miller Road and Southern Avenue.

RELEVANT GOALS:
GOAL 3: A Well-Planned Urban Community

ADDITIONAL RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

SUMMARY

PROJECT DESCRIPTION:

The applicant has requested approval of a Final Plat of Parcel 1 of Copper Falls. The 176.5-acre plat is located generally north and west of the northwest corner of Miller Road and Southern Avenue. It includes 181 single-family residential lots with an overall gross density of 3.12 dwelling units to the acre. There are three (3) lot sizes proposed throughout the site, including: 45‘x115‘, 50‘x120‘, and 55‘x120‘. Approximately 16.99 acres of right-of-way (ROW) is being dedicated to the City of Buckeye through this application. The proposal is in substantial conformance to the Preliminary Plat and the Copper Falls Community Master Plan. All reviewing departments have approved this proposal. The applicant has also obtained a Certification of Assured Water Supply from the Arizona Department of Water Resources, per A.R.S. §9-463.01.I.

BENEFITS:

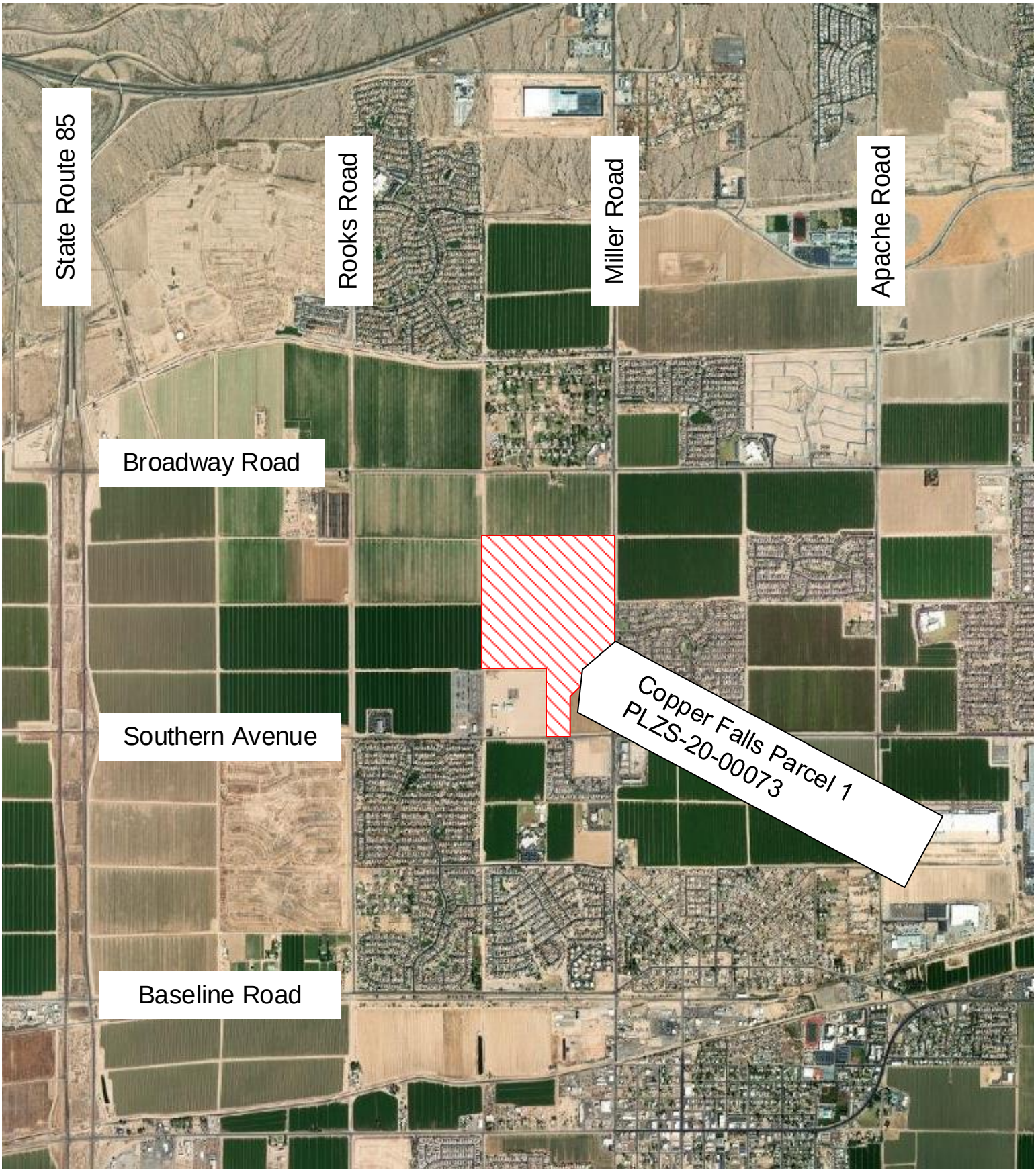
The approval of this plat will allow continued development of traditional single-family residences within the City of Buckeye.

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
PLZS-20-00073 Copper Falls Parcel 1 Vicinity Map.pdf
PLZS-20-00073 Copper Falls Parcel 1 Project Narrative.pdf
PLZS-20-00073 Copper Falls Parcel 1 Final Plat.pdf

PLZS-20-00073 Copper Falls Parcel 1 Certificate of Assured Water Supply.pdf

BUCKEYE, AZ

Vicinity Map



0 .25 .5 .75 1.0 Mile

N

1447

WOOD PATEL

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Darrel E. Wood, PE, RLS
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Thomas R. Gettings, RLS
Darin L. Moore, PE, LEED GA
Jeffrey R. Minch, PE, CFM
Robert D. Gofonia, PE, RLS

August 20, 2020

Project Narrative

Copper Falls Parcel 1
Final Plat
WP# 184796.11

Copper Falls Parcel 1 is located west of Miller Road between West Broadway Road and West Southern Avenue.

The purpose of this final plat is to create Lots 1 through 208, inclusive, Block 1, Block 2 and a parcel (Lot 326) for the future John McCain Elementary School. Rights-of-way surrounding the parcels will be dedicated. The current site conditions are agriculture.

Sincerely,

Wood, Patel & Associates, Inc.

Brian J. Diehl, RLS
Survey Project Manager

BJD/bl

Exhibit: Boundary Map

Y:\WP\General Correspondence\184796.11 Copper Falls Parcel 1 Final Plat Project Narrative 08-20-20.docx

FINAL PLAT

FOR

COPPER FALLS PARCEL 1

A PORTION OF THE EAST HALF OF SECTION 30, TOWNSHIP 1 NORTH,
RANGE 3 WEST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

RECEIVED
12 JUL 2021
CITY OF BUCKEYE by: RP

PLZS-20-00073
5th Submittal

THIS DEVELOPMENT IS SUBJECT TO A STREETLIGHT IMPROVEMENT DISTRICT (SLID) FOR THE PURPOSE OF PAYING FOR THE POWER REQUIREMENTS OF THE STREETLIGHTS INSTALLED WITHIN THE DEVELOPMENT AND ADJACENT ARTERIALS.

THIS DEVELOPMENT IS SUBJECT TO A MAINTENANCE IMPROVEMENT DISTRICT (MID) TO ENSURE HOA MAINTENANCE OF ALL RIGHTS OF WAY LANDSCAPING.

DEDICATION

STATE OF ARIZONA)
) ss
COUNTY OF MARICOPA)

KNOW ALL MEN BY THESE PRESENTS:

THAT TGV INVESTMENTS, LLC, AN ARIZONA LIMITED LIABILITY COMPANY, BUCKEYE ELEMENTARY SCHOOL DISTRICT NO. 33, A POLITICAL SUBDIVISION OF THE STATE OF ARIZONA AND FORESTAR (USA) REAL ESTATE GROUP INC., A DELAWARE CORPORATION, (OWNERS), HAVE SUBDIVIDED UNDER THE NAME OF "COPPER FALLS PARCEL 1", A SUBDIVISION LOCATED IN A PORTION OF THE EAST HALF OF SECTION 30, TOWNSHIP 1 NORTH, RANGE 3 WEST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, AS SHOWN AND PLATTED HEREON AND DOES HEREBY PUBLISH THIS PLAT AS AND FOR THE PLAT OF "COPPER FALLS PARCEL 1" AND DECLARES THAT THIS FINAL PLAT SETS FORTH THE LOCATION AND GIVES THE DIMENSIONS OF EACH BLOCK, LOT, TRACT, STREET, AND EASEMENT, CONSTITUTING SAME, AND THAT EACH BLOCK, LOT, TRACT, STREET, AND EASEMENT SHALL BE KNOWN BY THE NUMBER, LETTER, AND/OR NAME GIVEN TO EACH RESPECTIVELY AS SHOWN ON THIS PLAT.

OWNERS HEREBY DEDICATE TO THE CITY OF BUCKEYE FEE TITLE TO ALL PUBLIC RIGHT-OF-WAYS (R/W) AS SHOWN ON THIS PLAT.

OWNERS HEREBY GRANT TO THE CITY OF BUCKEYE A NON-EXCLUSIVE EASEMENT OVER, UPON AND ACROSS THE AREAS DESIGNATED AS PUBLIC UTILITY EASEMENTS AS SHOWN ON THE PLAT FOR THE PURPOSE OF INSTALLING, CONSTRUCTION, MAINTAINING, REPAIRING, REPLACING AND UTILIZING PUBLIC UTILITIES.

OWNERS HEREBY GRANT TO THE CITY OF BUCKEYE A NON-EXCLUSIVE EASEMENT OVER, UPON AND ACROSS THE AREAS DESIGNATED AS SIGHT VISIBILITY EASEMENTS FOR THE PURPOSE OF ENSURING THAT THESE AREAS REMAIN FREE OF SIGHT VISIBILITY OBSTRUCTIONS AS PER THE ENGINEERING DESIGN STANDARDS.

OWNERS HEREBY GRANT TO THE CITY OF BUCKEYE A NON-EXCLUSIVE EASEMENT OVER, UPON AND ACROSS THE AREAS DESIGNATED AS V.N.A.E. FOR THE PURPOSE OF PREVENTING VEHICULAR ACCESS.

OWNERS HEREBY GRANT TO THE CITY OF BUCKEYE A NON-EXCLUSIVE EASEMENT OVER, UPON AND ACROSS THE AREA DESIGNATED AS P.P.A. FOR THE PURPOSE OF PROVIDING A PUBLIC PEDESTRIAN ACCESS EASEMENT. PUBLIC PEDESTRIAN ACCESS EASEMENT TO BE MAINTAINED BY THE OWNER OR THE ASSOCIATION FORMED BY THE OWNER.

OWNERS HEREBY DEDICATE THE SIDEWALK EASEMENTS TO THE CITY OF BUCKEYE FOR USE AS SUCH.

THE MAINTENANCE OF LANDSCAPING WITHIN THE OPEN SPACES, LANDSCAPED TRACTS, RETENTION BASINS AND PARKS SHALL BE THE RESPONSIBILITY OF THE OWNERS OR THE ASSOCIATION FORMED BY THE OWNERS.

THE MAINTENANCE OF LANDSCAPING WITHIN THE ADJACENT PUBLIC RIGHT-OF-WAYS, INCLUDING; LANDSCAPED MEDIANS WITHIN COLLECTORS AND LOCAL STREETS AND LANDSCAPED AREAS BETWEEN THE CURB AND THE DETACHED SIDEWALK, SHALL BE THE RESPONSIBILITY OF THE ADJACENT PROPERTY OWNER OR THE PROPERTY ASSOCIATION FORMED BY THE ADJACENT PROPERTY.

TGV INVESTMENTS, LLC, AN ARIZONA LIMITED LIABILITY COMPANY, BUCKEYE ELEMENTARY SCHOOL DISTRICT NO. 33, A POLITICAL SUBDIVISION OF THE STATE OF ARIZONA AND FORESTAR (USA) REAL ESTATE GROUP INC., A DELAWARE CORPORATION, (OWNERS) DO HEREBY; (1) RELEASE AND DISCHARGE THE CITY OF BUCKEYE, AND (2) INDEMNIFY, DEFEND, AND HOLD HARMLESS THE CITY OF BUCKEYE, OF AND FROM ANY LIABILITY FOR ANY AND ALL CLAIMS FOR DAMAGES OF ANY KIND TO PERSONS OR PROPERTY THAT MAY ARISE AT ANY TIME IN THE FUTURE OVER, OR IN CONNECTION WITH THE AREAS LOCATED WITHIN THE NEWLY DEDICATED RIGHT-OF-WAY AS DEPICTED ON THIS PLAT UNTIL SUCH TIME THE RIGHT-OF-WAY IS IMPROVED TO CITY STANDARDS AND THOSE IMPROVEMENTS ARE APPROVED AND ACCEPTED BY THE CITY. THE MAINTENANCE OF THE AREA WITHIN ANY NEWLY DEDICATED RIGHT-OF-WAY AS SHOWN ON THIS PLAT SHALL BE THE RESPONSIBILITY OF THE ADJACENT OWNER/OR SUBSEQUENT ADJACENT OWNERS WITHIN THE BOUNDARY OF SAID PLAT UNTIL SUCH TIME THAT THE AREA WITHIN THE RIGHT-OF-WAY IS IMPROVED TO CITY STANDARD AND ACCEPTED BY THE CITY OF BUCKEYE.

ALL IMPROVEMENTS, FOR STREETS AND PUBLIC UTILITIES OWNED AND OPERATED BY THE CITY, INSTALLED OR CONSTRUCTED BY OWNERS WITHIN THE PUBLIC RIGHT-OF-WAYS, THE EASEMENTS, OR ANY LOTS, TRACTS OR BLOCKS HEREBY DEDICATED TO THE CITY OF BUCKEYE SHALL BE DEEMED TO HAVE BEEN DEDICATED BY OWNERS TO THE CITY UPON THEIR COMPLETION; HOWEVER, SUCH TRANSFER SHALL NOT OCCUR UNTIL THE CITY OF BUCKEYE MANIFESTS ITS ACCEPTANCE BY SEPARATE FORMAL ACTION.

THE EASEMENTS GRANTED WITHIN THIS DEDICATION, UNLESS OTHERWISE NOTED AS TEMPORARY, ARE PERMANENT AND PERPETUAL AND SHALL RUN WITH THE LAND AND BE BINDING UPON OWNERS AND THEIR HEIRS, ASSIGNS, AND SUCCESSORS IN INTEREST TO THIS PLAT OR ANY LOT/BLOCK THEREOF.

TRACTS DESIGNATED AS TRACT A THROUGH TRACT Q ARE HEREBY DECLARED AS COMMON AREAS TO BE OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION.

OWNERS WARRANT AND REPRESENT TO THE CITY OF BUCKEYE TO BE THE SOLE OWNERS OF THE PROPERTY COVERED HEREBY AND THAT EVERY LENDER, EASEMENT HOLDER, OR OTHER PERSON, OR ENTITY, HAVING ANY INTEREST IN THE LAND ADVERSE TO OR INCONSISTENT WITH THE DEDICATION, CONVEYANCES OR OTHER REAL PROPERTY INTEREST CREATED OR TRANSFERRED BY THIS PLAT HAS CONSENTED TO, OR JOINED IN THE PLAT, AS EVIDENCED BY INSTRUMENTS WHICH ARE RECORDED WITH THE MARICOPA COUNTY RECORDER'S OFFICE, OR WHICH OWNER WILL RECORD NOT LATER THAN THE DATE ON WHICH THIS PLAT IS RECORDED.

IN WITNESS WHEREOF, OWNER HAS HEREUNTO CAUSED ITS NAME TO BE SIGNED AND ITS CORPORATE SEAL TO BE AFFIXED BY THE UNDERSIGNED, DULY AUTHORIZED OFFICER THIS _____ DAY OF _____, 20__.

TGV INVESTMENTS, LLC, AN ARIZONA LIMITED LIABILITY COMPANY

BY: _____

ITS: _____

IN WITNESS WHEREOF, OWNER HAS HEREUNTO CAUSED ITS NAME TO BE SIGNED AND ITS CORPORATE SEAL TO BE AFFIXED BY THE UNDERSIGNED, DULY AUTHORIZED OFFICER THIS _____ DAY OF _____, 20__.

BUCKEYE ELEMENTARY SCHOOL DISTRICT NO. 33, A POLITICAL SUBDIVISION OF THE STATE OF ARIZONA

BY: _____

ITS: _____

OWNERS

TGV INVESTMENTS, LLC,
AN ARIZONA LIMITED LIABILITY COMPANY
2241 EAST COLTER STREET
PHOENIX, ARIZONA 85016
PHONE: (949) 226-2555
CONTACT: MR. TERRY KLINGER

BUCKEYE ELEMENTARY SCHOOL DISTRICT NO. 33,
A POLITICAL SUBDIVISION OF THE STATE OF ARIZONA
25555 W. DURANGO STREET
BUCKEYE, ARIZONA 85326
PHONE: (623)925-3430
CONTACT: DR. DREW DAVIS

FORESTAR (USA) REAL ESTATE GROUP INC.
A DELAWARE CORPORATION
1661 E CAMELBACK RD, STE 330
PHOENIX, ARIZONA 85016
PHONE: (480) 213-6827
CONTACT: MR. BRIAN KONDERIK

CIVIL ENGINEER

WOOD, PATEL & ASSOCIATES, INC.
2051 W. NORTHERN AVE.
PHOENIX, ARIZONA 85021
PHONE: (602)335-8500
FAX: (602)335-8580
CONTACT: MR. MICHAEL T. YOUNG

ACKNOWLEDGMENT

STATE OF ARIZONA)
) ss
COUNTY OF MARICOPA)

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS____DAY OF_____, 20__,

BY_____, THE_____

OF TGV INVESTMENTS, LLC, AN ARIZONA LIMITED LIABILITY COMPANY, FOR AND ON BEHALF THEREOF.

_____ _____
NOTARY PUBLIC MY COMMISSION EXPIRES

ACKNOWLEDGMENT

STATE OF ARIZONA)
) ss
COUNTY OF MARICOPA)

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS____DAY OF_____, 20__,

BY_____, THE_____

OF BUCKEYE ELEMENTARY SCHOOL DISTRICT NO. 33, A POLITICAL SUBDIVISION OF THE STATE OF ARIZONA, FOR AND ON BEHALF THEREOF.

_____ _____
NOTARY PUBLIC MY COMMISSION EXPIRES

ACKNOWLEDGMENT

STATE OF ARIZONA)
) ss
COUNTY OF MARICOPA)

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS____DAY OF_____, 20__,

BY_____, THE_____

OF FORESTAR (USA) REAL ESTATE GROUP INC., A DELAWARE CORPORATION, FOR AND ON BEHALF THEREOF.

_____ _____
NOTARY PUBLIC MY COMMISSION EXPIRES

INDEX SHEET

SHEET 1	DEDICATION, ACKNOWLEDGMENTS, CERTIFICATIONS AND NOTES
SHEET 2	BOUNDARY MAP AND LEGEND
SHEET 3-11	PLAN SHEETS AND DESCRIPTION
SHEET 12	DETAIL, LINE, CURVE AND AREA TABLES

DEDICATION (CONTINUED)

IN WITNESS WHEREOF, OWNER HAS HEREUNTO CAUSED ITS NAME TO BE SIGNED AND ITS CORPORATE SEAL TO BE AFFIXED BY THE UNDERSIGNED, DULY AUTHORIZED OFFICER THIS _____ DAY OF _____, 20__.

FORESTAR (USA) REAL ESTATE GROUP INC., A DELAWARE CORPORATION

BY: _____

ITS: _____

LIENHOLDER RATIFICATION

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

RABO AGRIFINANCE LLC, A DELAWARE LIMITED LIABILITY COMPANY, HEREBY RATIFIES, AFFIRMS AND APPROVES THIS FINAL PLAT OF "COPPER FALLS PARCEL 1, AND THE RESPONSIBILITIES IMPOSED UPON IT UNDER THIS PLAT.

IN WITNESS WHEREOF, RABO AGRIFINANCE LLC, A DELAWARE LIMITED LIABILITY COMPANY, HAS CAUSED ITS NAME TO BE AFFIXED BY THE UNDERSIGNED, DULY AUTHORIZED OFFICER.

THIS _____DAY OF _____, 20__

RABO AGRIFINANCE LLC, A DELAWARE LIMITED LIABILITY COMPANY

BY: _____

NAME: _____

ITS: _____

ACKNOWLEDGMENT OF RATIFICATION

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

THIS DOCUMENT WAS ACKNOWLEDGED BEFORE ME THIS _____ DAY OF _____, 20__,

BY _____,THE _____

OF RABO AGRIFINANCE LLC, A DELAWARE LIMITED LIABILITY COMPANY

_____
NOTARY PUBLIC

MY COMMISSION EXPIRES: _____

APPROVALS

APPROVED BY THE COUNCIL OF THE CITY OF BUCKEYE ON THIS_____ DAY OF _____ 20__.

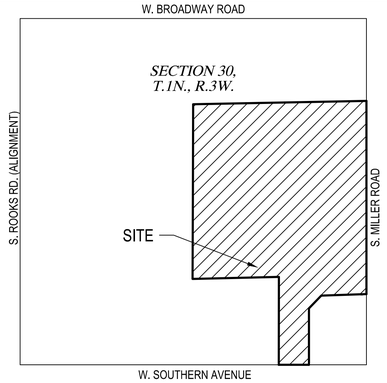
BY: _____
MAYOR

ATTEST: _____
CITY CLERK

I CERTIFY THAT ALL ENGINEERING CONDITIONS AND REQUIREMENTS HAVE BEEN COMPLIED WITH.

BY:_____
BUCKEYE CITY ENGINEER DATE

BY:_____
DEVELOPMENT SERVICES DIRECTOR DATE



N

VICINITY MAP
N.T.S.

NOTES

1. THE PROPERTY OWNERS, OR ANY SUBSEQUENT OWNERS SHALL NOT PROCEED WITH ANY ON SITE GRADING OR EXCAVATION WITHOUT FIRST OBTAINING A PERMIT FROM THE CITY OF BUCKEYE.
2. IN ACCORDANCE WITH ARS § 9-461.07, THE CITY OF BUCKEYE HAS DETERMINED THAT ALL DEDICATIONS OCCURRING WITH THIS PLAT ARE IN CONFORMANCE WITH THE GENERAL PLAN.
3. PURSUANT TO A.R.S. § 42-11102, THE CITY OF BUCKEYE, A POLITICAL SUBDIVISION OF THE STATE OF ARIZONA, IS EXEMPT FROM ALL TAXES AND ASSESSMENTS BASED ON ASSESSED VALUE EXCEPT FOR SPECIAL DISTRICTS #14751 AND 14710, WHEN APPLICABLE.
4. THIS SITE CONSISTS OF A TOTAL OF 181 LOTS, 17 TRACTS, AND 3 BLOCKS IN THE PC-PLANNED COMMUNITY ZONING DISTRICT.
5. THIS FINAL PLAT IS IN SUBSTANTIAL CONFORMANCE WITH THE PRELIMINARY PLAT APPROVED ON JUNE 25, 2019 UNDER CASE # PLZ-18-00232.
6. THIS SUBDIVISION WAS ISSUED A CERTIFICATE OF ASSURED WATER SUPPLY BY ARIZONA DEPARTMENT OF WATER RESOURCES ON JANUARY 15, 2020 WITH ADWR CERTIFICATE NO. 31-402043.0002.
7. NO STRUCTURE OF ANY KIND SHALL BE CONSTRUCTED OR ANY VEGETATION TO BE PLANTED OR BE ALLOWED TO GROW WITHIN ANY DRAINAGE EASEMENT WHICH WOULD IMPEDE THE FLOW OF WATER OVER, UNDER, OR THROUGH EASEMENTS.
8. FINAL PLAT APPROVAL BY THE CITY IS CONDITIONAL AND SUBJECT TO FINANCIAL ASSURANCES BEING IN PLACE FOR ALL IMPROVEMENTS AS SHOWN ON THE APPROVED PLANS. THE CITY WILL NOT RECORD ANY PLATS UNTIL SUCH TIME FINANCIAL ASSURANCES ARE IN PLACE. IF AFTER 180 DAYS FROM CITY COUNCIL APPROVAL THE FINAL PLAT HAS NOT BEEN RECORDED, THEN IT SHALL BE NULL AND VOID. A VALID PRELIMINARY PLAT NEEDS TO BE IN PLACE PRIOR TO APPROVAL OF ANY FINAL PLAT ASSOCIATED WITHIN THE PROJECT IN ACCORDANCE WITH THE DEVELOPMENT CODE. THE SIGNED PLAT WILL NOT BE SUBMITTED TO THE CITY FOR SIGNATURE AND RECORDING UNTIL FINANCIAL ASSURANCES ARE IN PLACE.
9. ALL NEW OR RELOCATED UTILITIES WILL BE PLACED UNDERGROUND EXCEPT POWER LINES 69KV AND LARGER.
10. EXCEPT FOR CONSTRUCTION AND IMPROVEMENTS BY GOVERNMENTAL ENTITIES AND CERTIFIED PUBLIC UTILITIES, CONSTRUCTION AND IMPROVEMENTS WITHIN PUBLIC UTILITY EASEMENTS SHALL BE LIMITED TO ONLY THE FOLLOWING:

    A. WOOD, WIRE. OR REMOVABLE SECTION TYPE FENCING.
    B. CONSTRUCTION, STRUCTURES, OR BUILDINGS EXPRESSLY APPROVED IN WRITING BY THE CITY OF BUCKEYE AND ALL PUBLIC UTILITIES WHICH USE OR MAY USE THE EASEMENT.
11. AN 18" REBAR WITH AN R.L.S. CAP WILL BE SET AT ALL SUBDIVISION CORNERS, BLOCK CORNERS, AND POINTS OF CURVATURE AT THE COMPLETION OF MASS GRADING.
12. ALL MEASUREMENTS ARE THE SAME AS RECORD UNLESS OTHERWISE NOTED. ALL FOUND MONUMENTS ARE WITHIN ACCEPTABLE TOLERANCES PER ARIZONA BOUNDARY SURVEY MINIMUM STANDARDS, UNLESS OTHERWISE NOTED.
13. TEMPORARY WATERLINE EASEMENTS AND TEMPORARY WATER AND SEWER EASEMENTS WILL BE TERMINATED UPON CITY OF BUCKEYE ACCEPTANCE OF FUTURE DEVELOPMENT.
14. THIS SUBDIVISION IS SUBJECT TO A PARKWAY MAINTENANCE IMPROVEMENT DISTRICT (MID) FORMED PURSUANT TO A.R.S. 48-574 WHICH MAY LEVY ANNUAL ASSESSMENTS OR ANNUAL AD VALORUM TAXES TO COVER THE COSTS OF MAINTAINING THE LANDSCAPING AND ORNAMENTATION ON STREETS WITHIN OR SERVING THE SUBDIVISION. MID NO. 2020-MID-003 WAS RECORDED IN DOCUMENT 2020-1085559, MCR.
15. THIS SUBDIVISION IS SUBJECT TO THE FORMATION OF A STREET LIGHT IMPROVEMENT DISTRICT. SLID NO. 2020-SLID-003 WAS RECORDED IN DOCUMENT 2020-1085557, MCR.

CERTIFICATION

I, GABRIEL S. RIOS, OF WOOD, PATEL & ASSOCIATES, INC. HEREBY CERTIFY THAT I AM A REGISTERED LAND SURVEYOR IN THE STATE OF ARIZONA; THAT THIS FINAL PLAT CONSISTING OF TWELVE (12) SHEETS CORRECTLY REPRESENTS A BOUNDARY SURVEY MADE BY ME DURING THE MONTH OF JUNE, 2018; THAT THIS SURVEY IS TRUE AND CORRECT AS SHOWN, THAT ALL MONUMENTS EXIST OR WILL BE SET AND, THAT THEIR POSITIONS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

GABRIEL S. RIOS, REGISTERED LAND SURVEYOR #48932
WOOD, PATEL & ASSOCIATES, INC.
1630 SOUTH STAPLEY DRIVE - SUITE 219
MESA, ARIZONA 85204
(480) 834-3300
SURVEYOR@WOODPATEL.COM

WOOD PATEL

Wood, Patel & Associates, Inc.

Civil Engineering
Water Resources
Land Survey
Construction Management

602.335.8500

www.woodpatel.com

FINAL PLAT
COPPER FALLS PARCEL 1
BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
48932
GABRIEL S. RIOS
12-31-23
Date Signed
Arizona, U.S.A.

EXPIRES 12-31-23

CHECKED BY GSR/BJD
CAD TECHNICIAN JKP/MJS
SCALE N.T.S.
DATE 7/12/2021
JOB NUMBER WP# 184796.11
SHEET 1 OF 12

PLZS-20-00073
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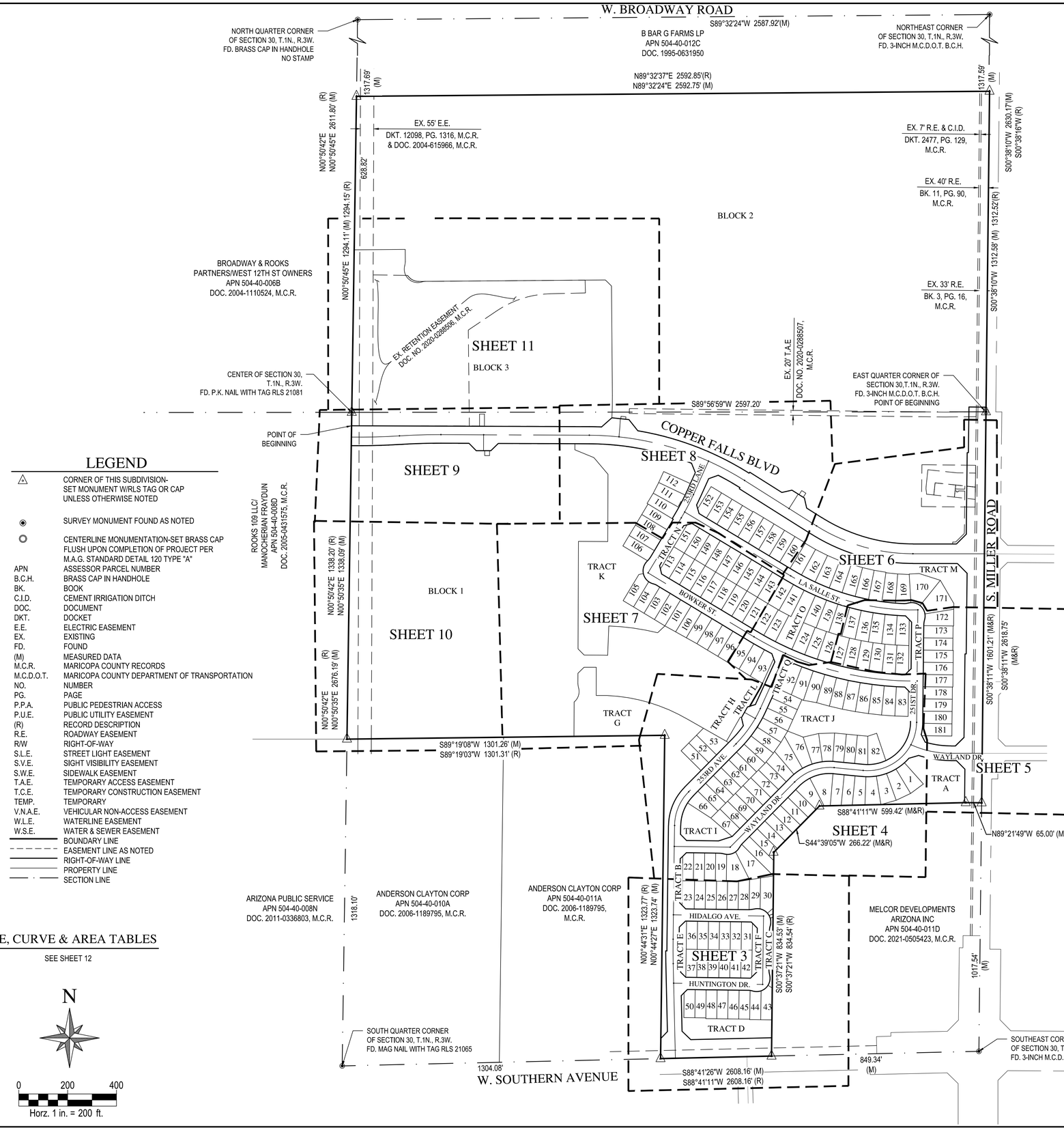

LEGEND

△	CORNER OF THIS SUBDIVISION- SET MONUMENT W/RLS TAG OR CAP UNLESS OTHERWISE NOTED
◉	SURVEY MONUMENT FOUND AS NOTED
○	CENTERLINE MONUMENTATION-SET BRASS CAP FLUSH UPON COMPLETION OF PROJECT PER M.A.G. STANDARD DETAIL 120 TYPE "A"
APN	ASSESSOR PARCEL NUMBER
B.C.H.	BRASS CAP IN HANDHOLE
BK.	BOOK
C.I.D.	CEMENT IRRIGATION DITCH
DOC.	DOCUMENT
DKT.	DOCKET
E.E.	ELECTRIC EASEMENT
EX.	EXISTING
FD.	FOUND
(M)	MEASURED DATA
M.C.R.	MARICOPA COUNTY RECORDS
M.C.D.O.T.	MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION
NO.	NUMBER
PG.	PAGE
P.P.A.	PUBLIC PEDESTRIAN ACCESS
P.U.E.	PUBLIC UTILITY EASEMENT
(R)	RECORD DESCRIPTION
R.E.	ROADWAY EASEMENT
R/W	RIGHT-OF-WAY
S.L.E.	STREET LIGHT EASEMENT
S.V.E.	SIGHT VISIBILITY EASEMENT
S.W.E.	SIDEWALK EASEMENT
T.A.E.	TEMPORARY ACCESS EASEMENT
T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
TEMP.	TEMPORARY
V.N.A.E.	VEHICULAR NON-ACCESS EASEMENT
W.L.E.	WATERLINE EASEMENT
W.S.E.	WATER & SEWER EASEMENT
———	BOUNDARY LINE
- - - - -	EASEMENT LINE AS NOTED
———	RIGHT-OF-WAY LINE
———	PROPERTY LINE
—— · ——	SECTION LINE

LINE, CURVE & AREA TABLES

SEE SHEET 12

N

0 200 400

Horz. 1 in. = 200 ft.

BASIS OF BEARING

THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED ON THE MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT) GEODETIC DENSIFICATION AND CADASTRAL SURVEY (GDACS) WEBSITE "WWW.MCDOT.MARICOPA.GOV", UNDER THE SURVEY INFORMATION LINK ON APRIL 18, 2018.

PROJECTION: ARIZONA CENTRAL ZONE, NAD 83, (EPOCH 2010)
DATUM: GRS-80
UNITS: INTERNATIONAL FEET
GEOID MODEL: GEOID 12A

CONTROL POINT # 4AG1
PID # AJ3825
LATITUDE: N33°22'40.40617" N
LONGITUDE: 112°36'31.58136" W
ELLIPSOID HEIGHT: 791.686 (METERS)
DESCRIPTION: ALUMINUM CAP ON STAINLESS STEEL ROD STAMPED 4AG1 1999

MODIFIED TO GROUND AT (GRID) N:873456.412, E:494224.029, USING A SCALE FACTOR OF 1.0000920200.

HORIZONTAL ADJUSTMENT: N -79.484 E -45.144
HORIZONTAL ROTATION: -00° 00' 03.46505"

RESULTING IN A BEARING OF S00° 38' 11" W ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SECTION 30, T. 1N., R. 3W, OF THE GILA AND SALT RIVER MERIDIAN.

FLOOD ZONE DESIGNATION

THE PROPERTY IS LOCATED WITHIN AN AREA DESIGNATED AS HAVING FLOOD ZONE X BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO. 04013C2115L, WITH A REVISION DATE OF OCTOBER 16, 2013 FOR COMMUNITY NO. 040039, IN THE CITY OF BUCKEYE, COUNTY OF MARICOPA, STATE OF ARIZONA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.

WOOD PATEL

Wood, Patel & Associates, Inc.

Civil Engineering
Water Resources
Land Survey
Construction Management

602.335.8500

www.woodpatel.com

FINAL PLAT

COPPER FALLS PARCEL 1
BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
48932
GABRIEL S. RIOS
Date Signed 12-21-21
ARIZONA, U.S.A.

EXPIRES 12-31-23

CHECKED BY	GSR/BJD
CAD TECHNICIAN	JKP/MJS
SCALE	1" = 200'
DATE	7/12/2021
JOB NUMBER	WP# 184796.11
SHEET	2 OF 12

PLZS-20-00073
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DESCRIPTION

PARCEL DESCRIPTION
Copper Falls

TGV INVESTMENTS, LLC DESCRIPTION:

A parcel of land situated in a portion of the east half of Section 30, Township 1 North, Range 3 West, of the Gila and Salt River Base and Meridian, Maricopa County, Arizona, more particularly described follows:

BEGINNING at the east quarter corner of said Section 30, monumented by a brass cap in a dirt hole, from which the southeast corner of said Section 30, monumented by a brass cap in a dirt hole bears as a basis of bearing South 00° 38 ' 11 " west, a distance of 2618.70 feet;
THENCE South 00°38'11" West, along the easterly line of the southeast corner of said Section 30, a distance of 1601.21 feet;
THENCE North 89°21'49" West, a distance of 65.00 feet;
THENCE South 88°41'11" West, a distance of 599.42 feet;
THENCE South 44°39 '05" West, a distance of 266.22 feet;
THENCE South 00°37'21 " West, a distance of 834.54 feet to a point lying on the southerly line of the southeast quarter of said Section 30;
THENCE South 88°41'11" West, along said Southerly line, a distance of 454.82 feet;
THENCE North 00°44'31" East, a distance of 1323.77 feet;
THENCE South 89°19'03" West, a distance of 1301.31 feet to a point lying on the westerly line of the southeast quarter of said Section 30;
THENCE North 00°50'42" East, along said westerly line, a distance of 1338.20 feet to the center of said section 30, monumented by a pk nail;
THENCE continuing North 00°50'42" East, along the westerly line of the northeast quarter of said Section 30, a distance of 1294.15 feet;
THENCE North 89°32'37" East, a distance of 2592.85 feet to a point lying on the easterly line of the northeast quarter of said Section 30;
THENCE South 00°38'16" West, along said easterly line, a distance of 1312.52 feet to the east quarter corner of said Section 30, said point being the POINT OF BEGINNING.

EXCEPT

COMMENCING at the South quarter corner of said Section 30, a mag nail with tag RLS 21065, from which the center of said section, a pk nail with tag RLS 21081, bears North 00°50'35" East (basis of bearing), a distance of 2676.19 feet;
THENCE along the north-south mid-section line of said section, North 00°50'35" east, a distance of 2621.31 feet, to the POINT OF BEGINNING;
THENCE continuing along said north-south mid-section line, North 00°50'35" East, a distance of 54.88 feet, to the center of said section;

THENCE continuing along said north-south mid-section line, North 00°50'45" East, a distance of 665.29 feet;
THENCE leaving said north-south mid-section line, North 89°32'24" east, a distance of 209.07 feet;
THENCE South 00°27'36" East, a distance of 48.56 feet, to the beginning of a curve;
THENCE southerly along said curve to the right, having a radius of 55.00 feet, concave westerly, through a central angle of 17°20'29", a distance of 16.65 feet, to a point of reverse curvature;
THENCE southeasterly along said reverse curve to the left, having a radius of 55.00 feet, concave north easterly, through a central angle of 124°40'58", a distance of 119.69 feet, to a point of reverse curvature;
THENCE easterly along said reverse curve to the right, having a radius of 55.00 feet, concave southerly, through a central angle of 17°20'29", a distance of 16.65 feet, to the curves end;
THENCE North 89°32'24" East, a distance of 735.79 feet;
THENCE South 45°27'36" East, a distance of 35.36 feet;
THENCE South 00°27'36" East, a distance of 448.29 feet, to the beginning of a curve;
THENCE southerly along said curve to the right, having a radius of 1465.00 feet, concave westerly through a central angle of 03°58'10", a distance of 101.50 feet, to a point of intersection with a non-tangent line;
THENCE South 48°53'41" west, a distance of 42.58 feet, to a point of intersection with a non-tangent curve;
THENCE westerly along said non-tangent curve to the left, having a radius of 1235.00 feet, concave southerly, whose radius bears South 02°59'50" West, through a central angle of 02°46'20", a distance of 59.75 feet, to the curves end;
THENCE North 89°46'30" West, a distance of 973.59 feet, to the POINT OF BEGINNING.

EXCEPT

A portion of that certain parcel of land described in Document 2014-0565578, Maricopa County Records (MCR), lying within the southeast quarter of Section 30, Township 1 North, Range 3 West, of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

COMMENCING at the east quarter corner of said Section 30, a 3-inch Maricopa County Department of Transportation (MCDOT) brass cap in handhole, from which the southeast corner of said section, a 3-inch MCDOT brass cap in handhole, bears South 00°38'11" West (basis of bearing), a distance of 2618.75 feet;
THENCE along the east line of said section, South 00°38'11" West, a distance of 662.14 feet;
THENCE leaving said east line, North 89°21'49" West, a distance of 40.00 feet, to the east line of said certain parcel of land and the POINT OF BEGINNING;
THENCE along said east line, South 00°38'11" West, a distance of 939.07 feet, to the most northerly southeast corner of said certain parcel of land;
THENCE leaving said east line, along the southerly line of said certain parcel of land, North 89°21'49" West, a distance of 25.00 feet;
THENCE South 88°41'11" West, a distance of 599.42 feet;
THENCE South 44°39'05" West, a distance of 266.22 feet;
THENCE South 00°37'21" West, a distance of 801.51 feet;
THENCE South 88°41'26" West, a distance of 454.67 feet, to the east line of the southwest quarter of the southeast quarter of said section;
THENCE leaving said southerly line, along said east line, North 00°44'27" East, a distance of 1290.72 feet, to the northeast corner of said southwest quarter of the southeast quarter;
THENCE leaving said east line, along the north line of said southwest quarter of the southeast quarter, South 89°19'08" West, a distance of 1301.26 feet, to the northwest corner of said southwest quarter of the southeast quarter and the mid-section line of said section;
THENCE leaving said north line, along said mid-section line, North 00°50'35" East, a distance of 1201.83 feet, to a point of intersection with a non-tangent curve;
THENCE leaving said mid-section line, easterly along said non-tangent curve to the left, having a radius of 2535.00 feet, concave northerly, whose radius bears North 00°50'44" East, through a central angle of 4°30'44", a distance of 199.64 feet, to the beginning of a reverse curve;
THENCE easterly along said reverse curve to the right, having a radius of 2465.00 feet, concave southerly, through a central angle of 3°53'29", a distance of 167.42 feet, to the curves end;
THENCE South 89°46'30" East, a distance of 114.92 feet;
THENCE South 44°46'30" East, a distance of 42.43 feet;
THENCE South 89°46'30" East, a distance of 60.00 feet;
THENCE North 45°13'30" East, a distance of 42.43 feet;
THENCE South 89°46'30" East, a distance of 372.75 feet, to the beginning of a curve;
THENCE easterly along said curve to the right, having a radius of 1165.00 feet, concave southerly, through a central angle of 21°04'59", a distance of 428.68 feet, to a point of intersection with a non-tangent line;
THENCE South 21°50'52" East, a distance of 41.60 feet;
THENCE South 65°44'28" East, a distance of 60.00 feet;
THENCE North 70°21'56" East, a distance of 41.60 feet, to a point of intersection with a non-tangent curve;
THENCE southeasterly along said non-tangent curve to the right, having a radius of 1165.00 feet, concave southwesterly, whose radius bears South 27°12'36" West, through a central angle of 5°02'24", a distance of 102.48 feet, to a point of intersection with a non-tangent line;
THENCE South 32°15'00" West, a distance of 5.00 feet;
THENCE South 57°45'00" East, a distance of 348.69 feet, to the beginning of a curve;
THENCE easterly along said curve to the left, having a radius of 780.00 feet, concave northerly, through a central angle of 32°15'00", a distance of 439.04 feet, to the curves end;
THENCE North 90°00'00" East, a distance of 182.26 feet;
THENCE South 44°40'54" East, a distance of 56.25 feet;
THENCE South 89°21'49" East, a distance of 30.00 feet, to the POINT OF BEGINNING.

FORESTAR (USA) REAL ESTATE INC. DESCRIPTION:

A portion of that certain parcel of land described in Document 2014-0565578, Maricopa County Records (MCR), lying within the southeast quarter of Section 30, Township 1 North, Range 3 West, of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

COMMENCING at the east quarter corner of said Section 30, a 3-inch Maricopa County Department of Transportation (MCDOT) brass cap in handhole, from which the southeast corner of said section, a 3-inch MCDOT brass cap in handhole, bears South 00°38'11" West (basis of bearing), a distance of 2618.75 feet;
THENCE along the east line of said section, South 00°38'11" West, a distance of 662.14 feet;
THENCE leaving said east line, North 89°21'49" West, a distance of 40.00 feet, to the east line of said certain parcel of land and the POINT OF BEGINNING;
THENCE along said east line, South 00°38'11" West, a distance of 939.07 feet, to the most northerly southeast corner of said certain parcel of land;
THENCE leaving said east line, along the southerly line of said certain parcel of land, North 89°21'49" West, a distance of 25.00 feet;
THENCE South 88°41'11" West, a distance of 599.42 feet;
THENCE South 44°39'05" West, a distance of 266.22 feet;
THENCE South 00°37'21" West, a distance of 801.51 feet;
THENCE South 88°41'26" West, a distance of 454.67 feet, to the east line of the southwest quarter of the southeast quarter of said section;
THENCE leaving said southerly line, along said east line, North 00°44'27" East, a distance of 1290.72 feet, to the northeast corner of said southwest quarter of the southeast quarter;
THENCE leaving said east line, along the north line of said southwest quarter of the southeast quarter, South 89°19'08" West, a distance of 1301.26 feet, to the northwest corner of said southwest quarter of the southeast quarter and the mid-section line of said section;
THENCE leaving said north line, along said mid-section line, North 00°50'35" East, a distance of 1201.83 feet, to a point of intersection with a non-tangent curve;
THENCE leaving said mid-section line, easterly along said non-tangent curve to the left, having a radius of 2535.00 feet, concave northerly, whose radius bears North 00°50'44" East, through a central angle of 4°30'44", a distance of 199.64 feet, to the beginning of a reverse curve;
THENCE easterly along said reverse curve to the right, having a radius of 2465.00 feet, concave southerly, through a central angle of 3°53'29", a distance of 167.42 feet, to the curves end;
THENCE South 89°46'30" East, a distance of 114.92 feet;
THENCE South 44°46'30" East, a distance of 42.43 feet;
THENCE South 89°46'30" East, a distance of 60.00 feet;
THENCE North 45°13'30" East, a distance of 42.43 feet;
THENCE South 89°46'30" East, a distance of 372.75 feet, to the beginning of a curve;
THENCE easterly along said curve to the right, having a radius of 1165.00 feet, concave southerly, through a central angle of 21°04'59", a distance of 428.68 feet, to a point of intersection with a non-tangent line;
THENCE South 21°50'52" East, a distance of 41.60 feet;
THENCE South 65°44'28" East, a distance of 60.00 feet;
THENCE North 70°21'56" East, a distance of 41.60 feet, to a point of intersection with a non-tangent curve;
THENCE southeasterly along said non-tangent curve to the right, having a radius of 1165.00 feet, concave southwesterly, whose radius bears South 27°12'36" West, through a central angle of 5°02'24", a distance of 102.48 feet, to a point of intersection with a non-tangent line;
THENCE South 32°15'00" West, a distance of 5.00 feet;
THENCE South 57°45'00" East, a distance of 348.69 feet, to the beginning of a curve;
THENCE easterly along said curve to the left, having a radius of 780.00 feet, concave northerly, through a central angle of 32°15'00", a distance of 439.04 feet, to the curves end;
THENCE North 90°00'00" East, a distance of 182.26 feet;
THENCE South 44°40'54" East, a distance of 56.25 feet;
THENCE South 89°21'49" East, a distance of 30.00 feet, to the POINT OF BEGINNING.

BUCKEYE ELEMENTARY SCHOOL DISTRICT NO. 33 DESCRIPTION:

A parcel of land lying within the east half of Section 30, Township 1 North, Range 3 West, of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

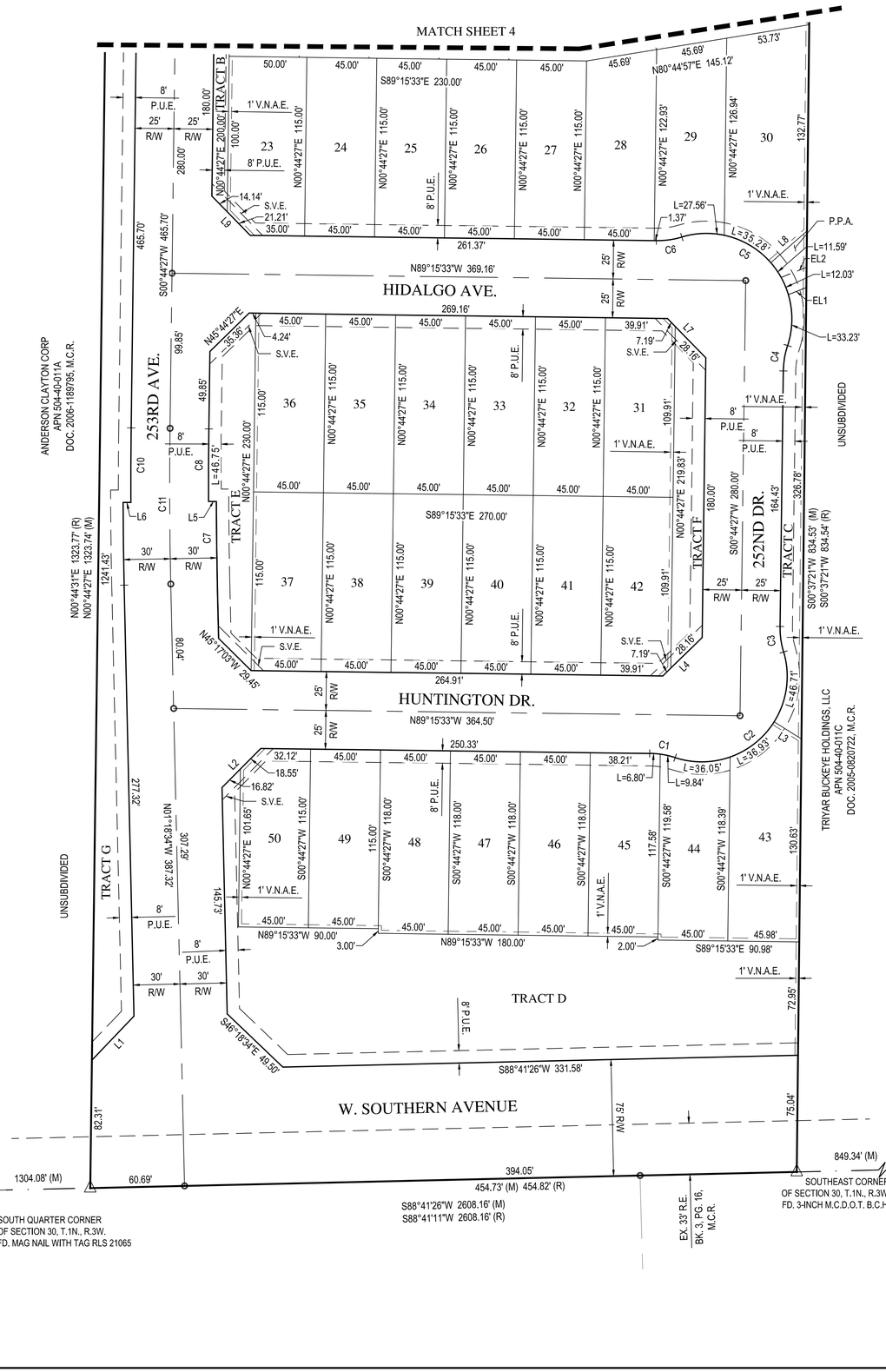
COMMENCING at the south quarter corner of said Section 30, a MAG nail with tag RLS 21065, from which the center of said section, a PK nail with tag RLS 21081, bears North 00°50'35" East (basis of bearing), a distance of 2676.19 feet;
THENCE along the north-south mid-section line of said section, North 00°50'35" East, a distance of 2621.31 feet, to the POINT OF BEGINNING;
THENCE continuing along said north-south mid-section line, North 00°50'35" East, a distance of 54.88 feet, to the center of said section;
THENCE continuing along said north-south mid-section line, North 00°50'45" East, a distance of 665.29 feet;
THENCE leaving said north-south mid-section line, North 89°32'24" East, a distance of 209.07 feet;
THENCE South 00°27'36" East, a distance of 48.56 feet, to the beginning of a curve;
THENCE southerly along said curve to the right, having a radius of 55.00 feet, concave westerly, through a central angle of 17°20'29", a distance of 16.65 feet, to a point of reverse curvature;
THENCE southeasterly along said reverse curve to the left, having a radius of 55.00 feet, concave northeasterly, through a central angle of 124°40'58", a distance of 119.69 feet, to a point of reverse curvature;
THENCE easterly along said reverse curve to the right, having a radius of 55.00 feet, concave southerly, through a central angle of 17°20'29", a distance of 16.65 feet, to the curves end;
THENCE North 89°32'24" East, a distance of 735.79 feet;
THENCE South 45°27'36" East, a distance of 35.36 feet;
THENCE South 00°27'36" East, a distance of 448.29 feet, to the beginning of a curve;
THENCE southerly along said curve to the right, having a radius of 1465.00 feet, concave westerly, through a central angle of 03°58'10", a distance of 101.50 feet, to a point of intersection with a non-tangent line;
THENCE South 48°53'41" West, a distance of 42.58 feet, to a point of intersection with a non-tangent curve;
THENCE westerly along said non-tangent curve to the left, having a radius of 1235.00 feet, concave southerly, whose radius bears South 02°59'50" West, through a central angle of 02°46'20", a distance of 59.75 feet, to the curves end;
THENCE North 89°46'30" West, a distance of 973.59 feet, to the POINT OF BEGINNING.

LEGEND

SEE SHEET 2

LINE, CURVE & AREA TABLES

SEE SHEET 12



WOOD PATEL

Wood, Patel & Associates, Inc.
Civil Engineering
Water Resources
Land Survey
Construction Management
602.335.8500
www.woodpatel.com

FINAL PLAT

COPPER FALLS PARCEL 1
BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
48932
GABRIEL S. RIOS
Date Signed 12-31-21
ARIZONA, U.S.A.
EXPIRES 12-31-23

CHECKED BY	GSR/BJD
CAD TECHNICIAN	JKP/MJS
SCALE	1" = 40'
DATE	7/12/2021
JOB NUMBER	WP# 184796.11
SHEET	3 OF 12

PLZS-20-00073
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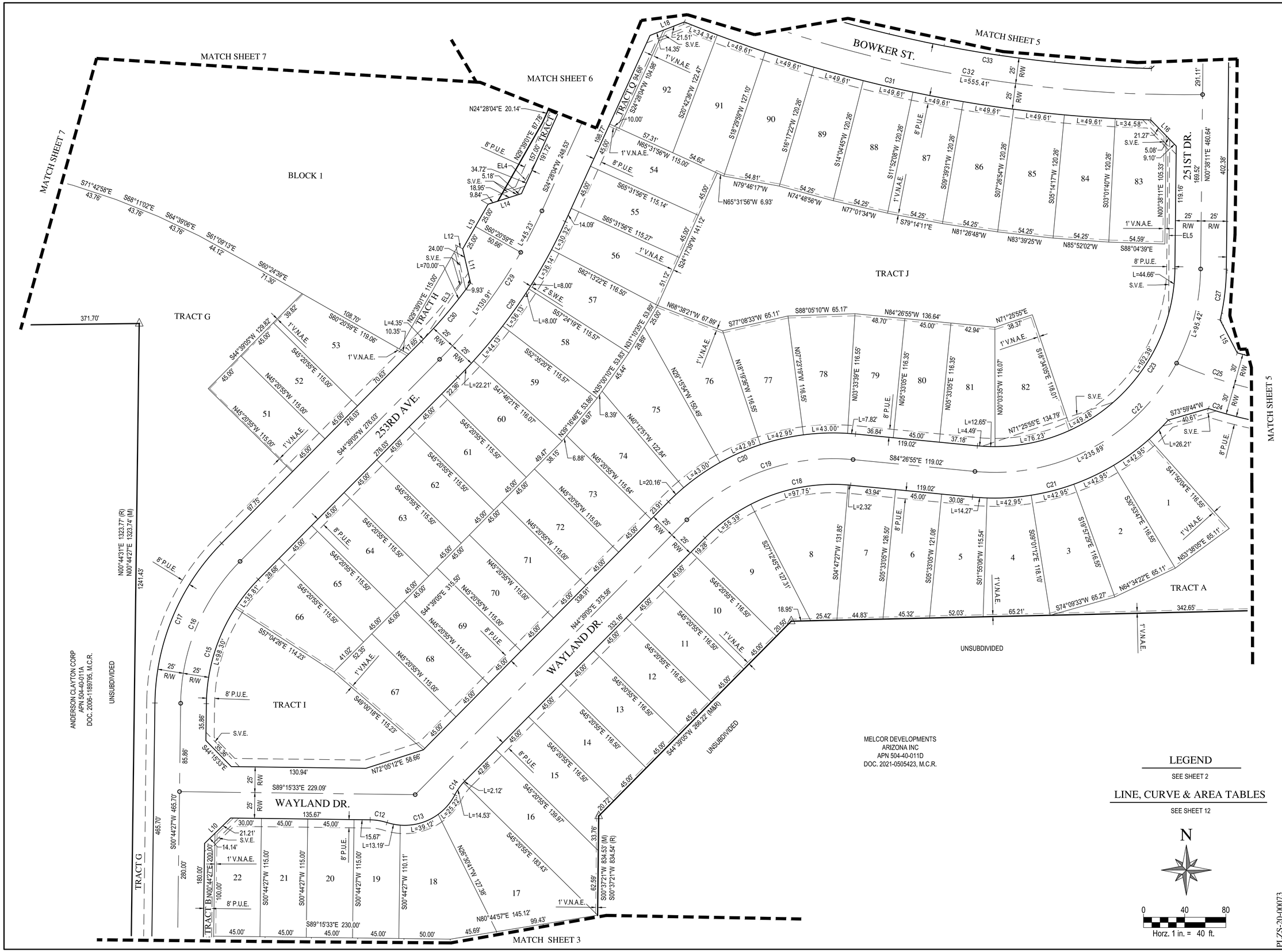

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FINAL PLAT

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GABRIEL S. RIOS
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ARIZONA, U.S.A.
EXPIRES 12-31-23

CHECKED BY	GSR/BJD
CAD TECHNICIAN	JKP/MJS
SCALE	1" = 40'
DATE	7/12/2021
JOB NUMBER	WP# 184796.11
SHEET	4 OF 12

PLZS-20-00073

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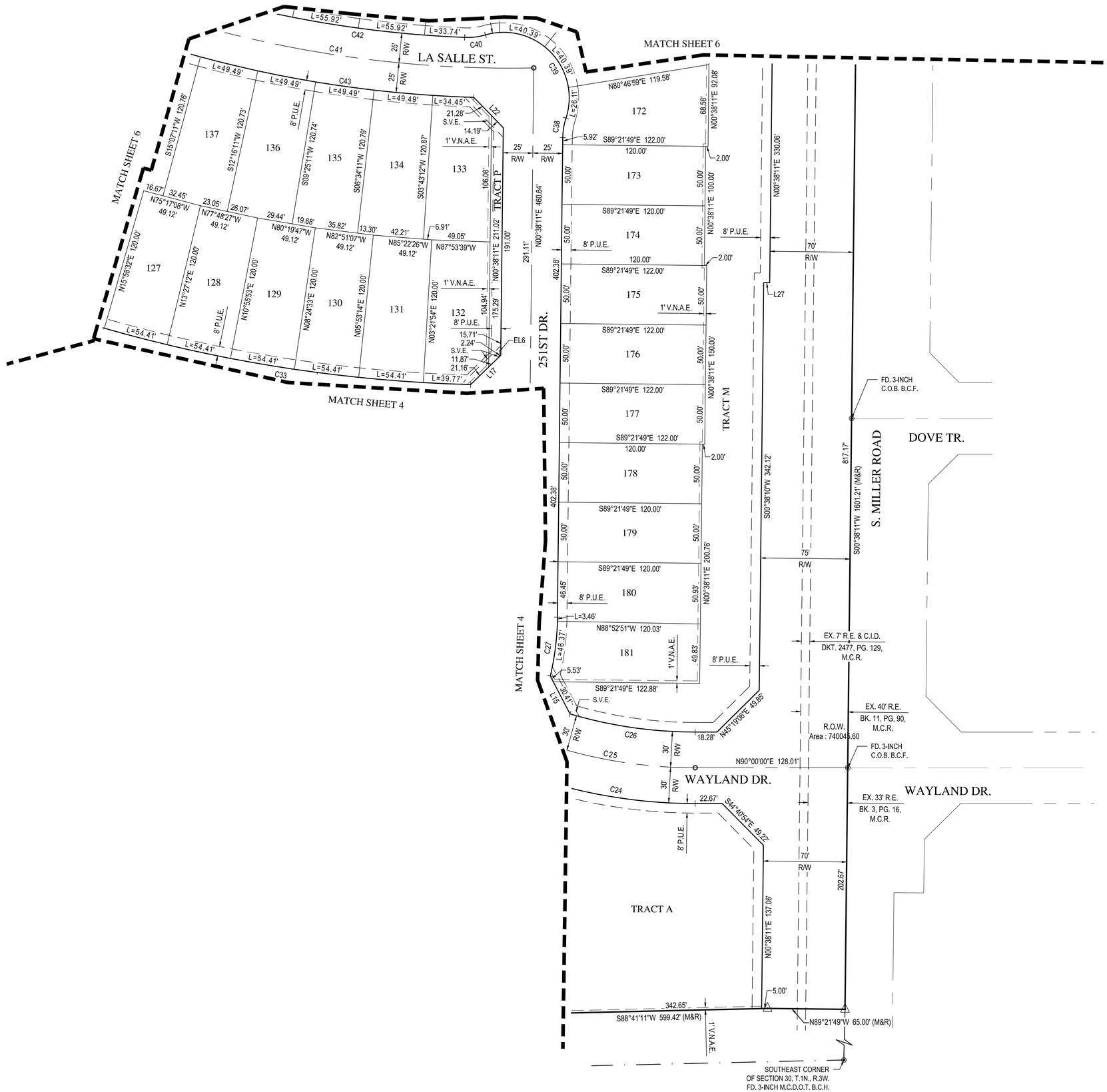

LEGEND

SEE SHEET 2

LINE, CURVE & AREA TABLES

SEE SHEET 12

N

0 40 80

Horz. 1 in. = 40 ft.

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FINAL PLAT

COPPER FALLS PARCEL 1

BUCKEYE, ARIZONA

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CERTIFICATE NO.
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GABRIEL S.
RIOS
12-31-23
Date Signed
Arizona, U.S.A.

EXPIRES 12-31-23

CHECKED BY	GSR/BJD
CAD TECHNICIAN	JKP/MJS
SCALE	1" = 40'
DATE	7/12/2021
JOB NUMBER	WP# 184796.11
SHEET	5 OF 12

PLZS-20-00073

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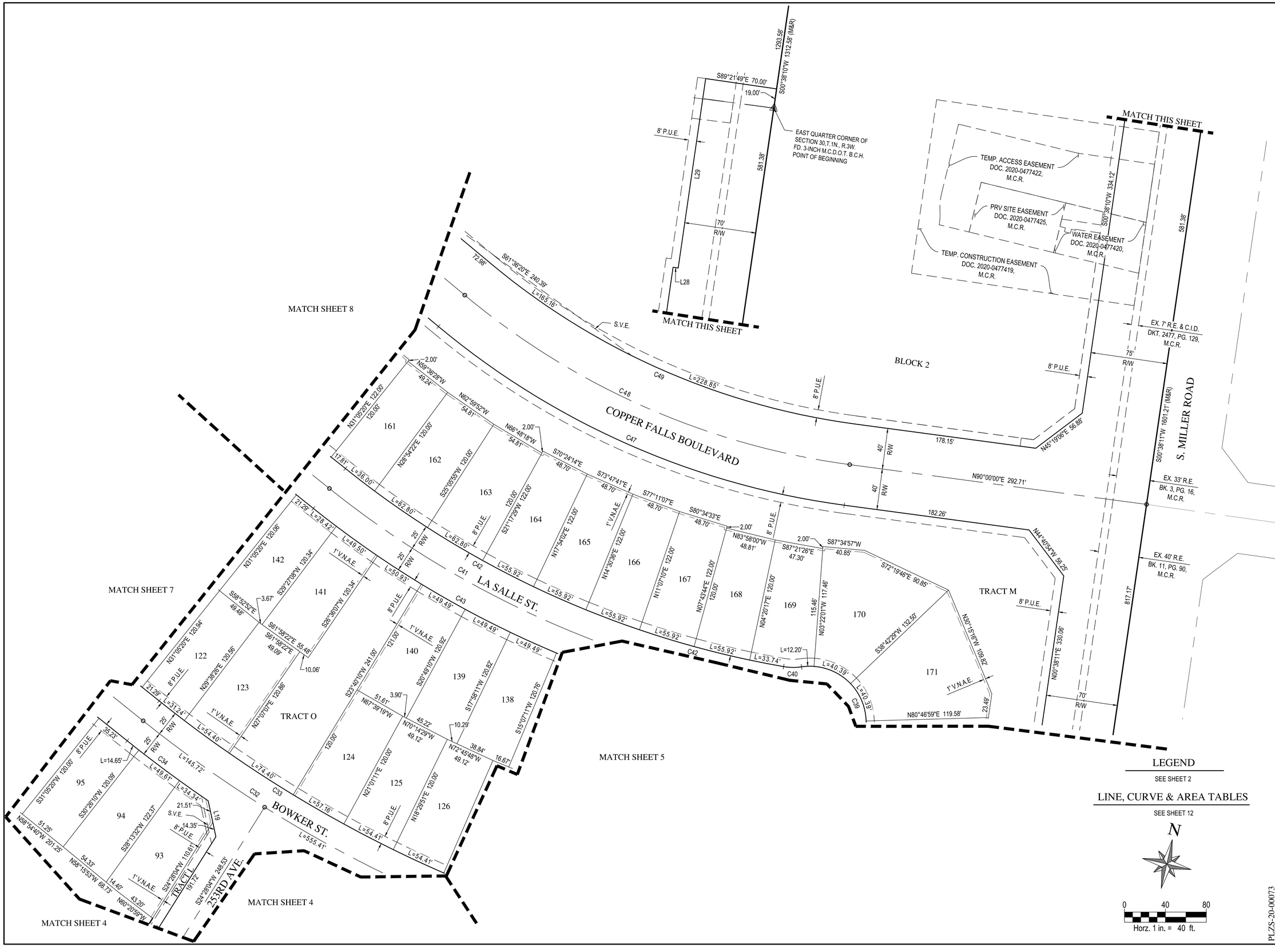

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FINAL PLAT

COPPER FALLS PARCEL 1
BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO. 48932
GABRIEL S. RIOS
Date Signed 07-12-21
ARIZONA, U.S.A.
EXPIRES 12-31-23

CHECKED BY	GSR/BJD
CAD TECHNICIAN	JKP/MJS
SCALE	1" = 40'
DATE	7/12/2021
JOB NUMBER	WP# 184796.11
SHEET	6 OF 12

PLZS-20-00073

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MATCH SHEET 9

MATCH SHEET 10

MATCH SHEET 8

MATCH SHEET 6

MATCH SHEET 4

BLOCK 1

TRACT K

TRACT G

UNSUBDIVIDED

253RD LANE

BOWKER ST.

N00°13'30"E 275.35'

S89°46'30"E 120.00'

N00°13'30"E 440.07'

8' P.U.E.

S.V.E.

N44°46'30"W 35.36'

N89°46'30"W 67.59'

C65

S02°07'38"W 120.00'

N86°24'58"W 50.58'

N83°30'12"W 50.58'

N80°35'25"W 50.58'

N77°40'39"W 50.58'

S46°35'52"W 41.10'

N60°49'13"W 150.08'

N58°54'40"W 201.25'

S31°05'20"W 50.03'

S89°46'30"E 50.15'

N45°13'30"E 35.36'

N00°13'30"E 42.21'

C64

C63

S00°13'30"W 115.51'

S89°46'30"E 44.24'

S85°50'44"E 43.76'

S82°18'47"E 43.76'

S78°46'51"E 43.76'

S75°14'55"E 43.76'

N00°13'30"E 140.81'

929.56'

S89°19'08"W 1301.26' (M)
S89°19'03"W 1301.31' (R)

371.70'

1' V.N.A.E.

8' P.U.E.

25' R/W

C37

C36

C35

L=41.35'

L=20.54'

13.32'

L=57.78'

L20

L21

L23

14.14'

S.V.E.

21.21'

35.00'

S31°05'20"E 150.00'

50.00'

N58°54'40"W 120.33'

S58°54'40"E 117.83'

183.61'

N31°05'20"E 263.39'

S31°05'20"W 211.00'

191.00'

105.00'

106.00'

S58°54'40"E 450.05'

456.34'

S58°54'40"E 506.34'

448.55'

S58°54'40"E 200.00'

S31°05'20"W 125.00'

S31°05'20"W 120.14'

S31°05'20"W 121.00'

S31°05'20"W 125.00'

S31°05'20"W 123.33'

S31°05'20"W 121.67'

N31°05'20"E 120.08'

N31°05'20"E 120.94'

105

104

103

102

101

100

99

98

97

96

113

114

115

116

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120

121

143

144

145

146

147

148

149

150

151

107

106

LEGEND

SEE SHEET 2

LINE, CURVE & AREA TABLES

SEE SHEET 12

N

0 40 80

Horz. 1 in. = 40 ft.

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FINAL PLAT

COPPER FALLS PARCEL 1

BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
48932
GABRIEL S. RIOS
12-31-21
Date Signed
ARIZONA, U.S.A.

EXPIRES 12-31-23

CHECKED BY GSR/BJD

CAD TECHNICIAN JKP/MJS

SCALE 1" = 40'

DATE 7/12/2021

JOB NUMBER WP# 184796.11

SHEET 7 OF 12

PLZS-20-0073

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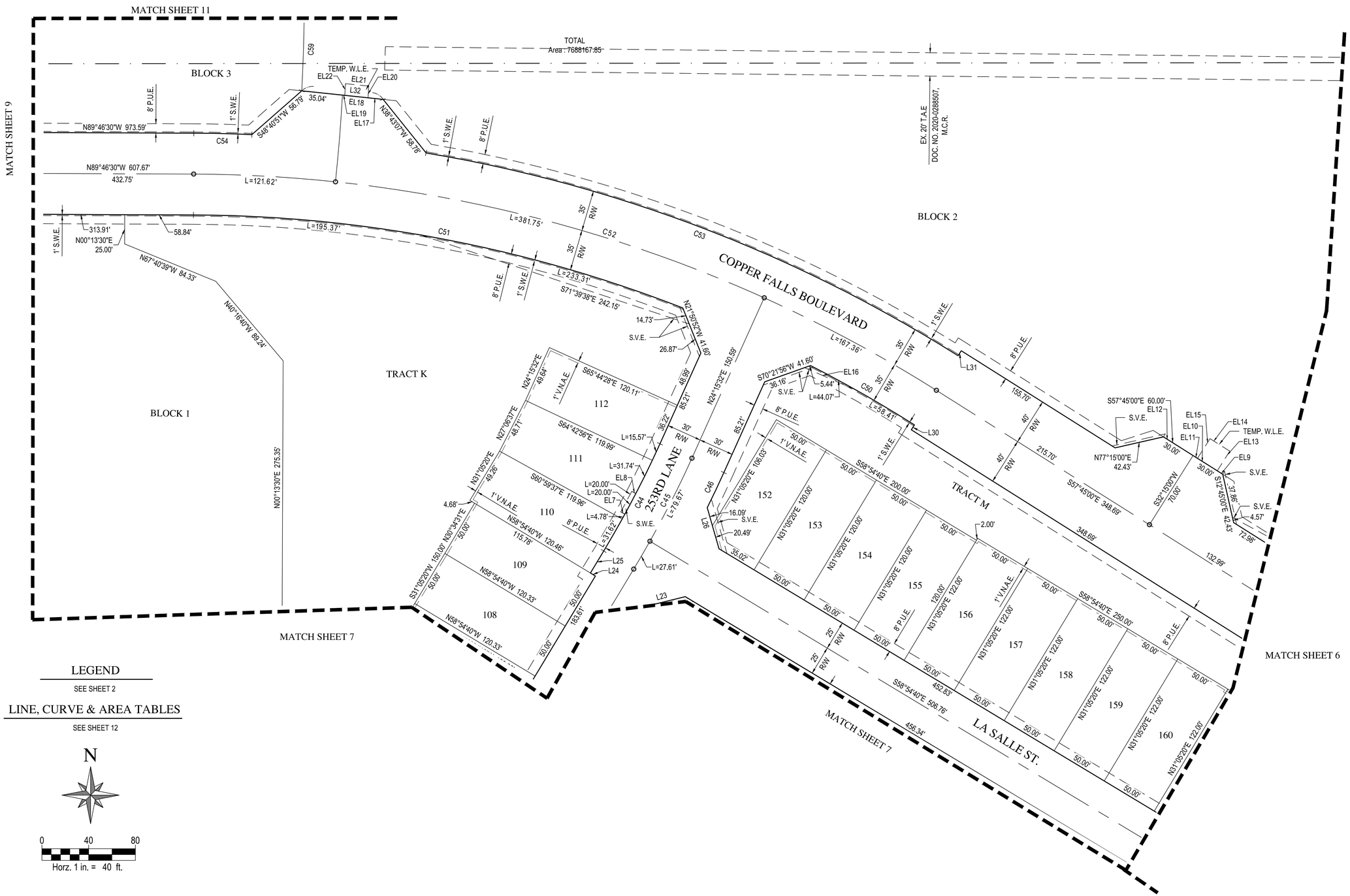

LEGEND

SEE SHEET 2

LINE, CURVE & AREA TABLES

SEE SHEET 12

N

0 40 80

Horz. 1 in. = 40 ft.

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FINAL PLAT

COPPER FALLS PARCEL 1

BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO. 48932
GABRIEL S. RIOS
07-12-21
Date Signed
ARIZONA, U.S.A.
EXPIRES 12-31-23

CHECKED BY	GSR/BJD
CAD TECHNICIAN	JKP/MJS
SCALE	1" = 40'
DATE	7/12/2021
JOB NUMBER	WP# 184796.11
SHEET	8 OF 12

PLZS-20-00073

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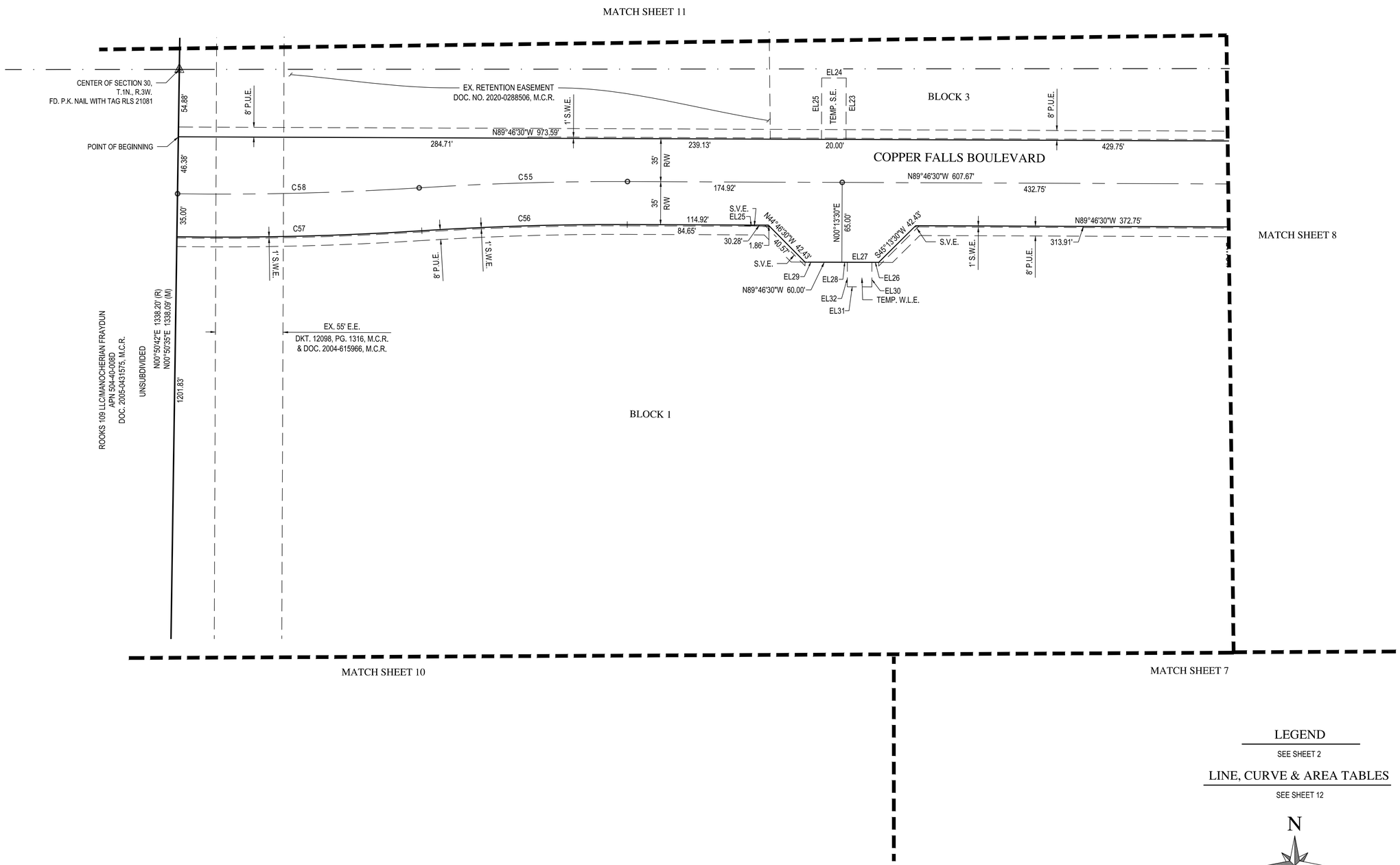

LEGEND

SEE SHEET 2

LINE, CURVE & AREA TABLES

SEE SHEET 12

N

0 40 80

Horz. 1 in. = 40 ft.

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FINAL PLAT

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GABRIEL S. RIOS
Date Signed 07-12-21
ARIZONA, U.S.A.

EXPIRES 12-31-23

CHECKED BY	GSR/BJD
CAD TECHNICIAN	JKP/MJS
SCALE	1" = 40'
DATE	7/12/2021
JOB NUMBER	WP# 184796.11
SHEET	9 OF 12

PLZS-20-00073

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MATCH SHEET 9

N00°50'42"E 1338.20' (R)
N00°50'35"E 1338.09' (M)

1201.83'

ROOKS 109 LLC/MANOCHERIAN FRAYDUN
APN 504-40-008D
DOC. 2005-0431575, M.C.R.

UNSUBDIVIDED

BLOCK 1
Area : 1351500.16

BLOCK 1

MATCH SHEET 7

EX. 55' E.E.
DKT. 12098, PG. 1316, M.C.R.
& DOC. 2004-615966, M.C.R.

929.56'
S89°19'08"W 1301.26' (M)
S89°19'03"W 1301.31' (R)

UNSUBDIVIDED

LEGEND

SEE SHEET 2

LINE, CURVE & AREA TABLES

SEE SHEET 12

N

0 40 80

Horz. 1 in. = 40 ft.

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FINAL PLAT

COPPER FALLS PARCEL 1
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CERTIFICATE NO.
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GABRIEL S. RIOS
07-12-21
Date Signed
ARIZONA, U.S.A.

EXPIRES 12-31-23

CHECKED BY	GSR/BJD
CAD TECHNICIAN	JKP/MJS
SCALE	1" = 40'
DATE	7/12/2021
JOB NUMBER	WP# 184796.11
SHEET	10 OF 12

PLZS-20-00073

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N

0 40 80

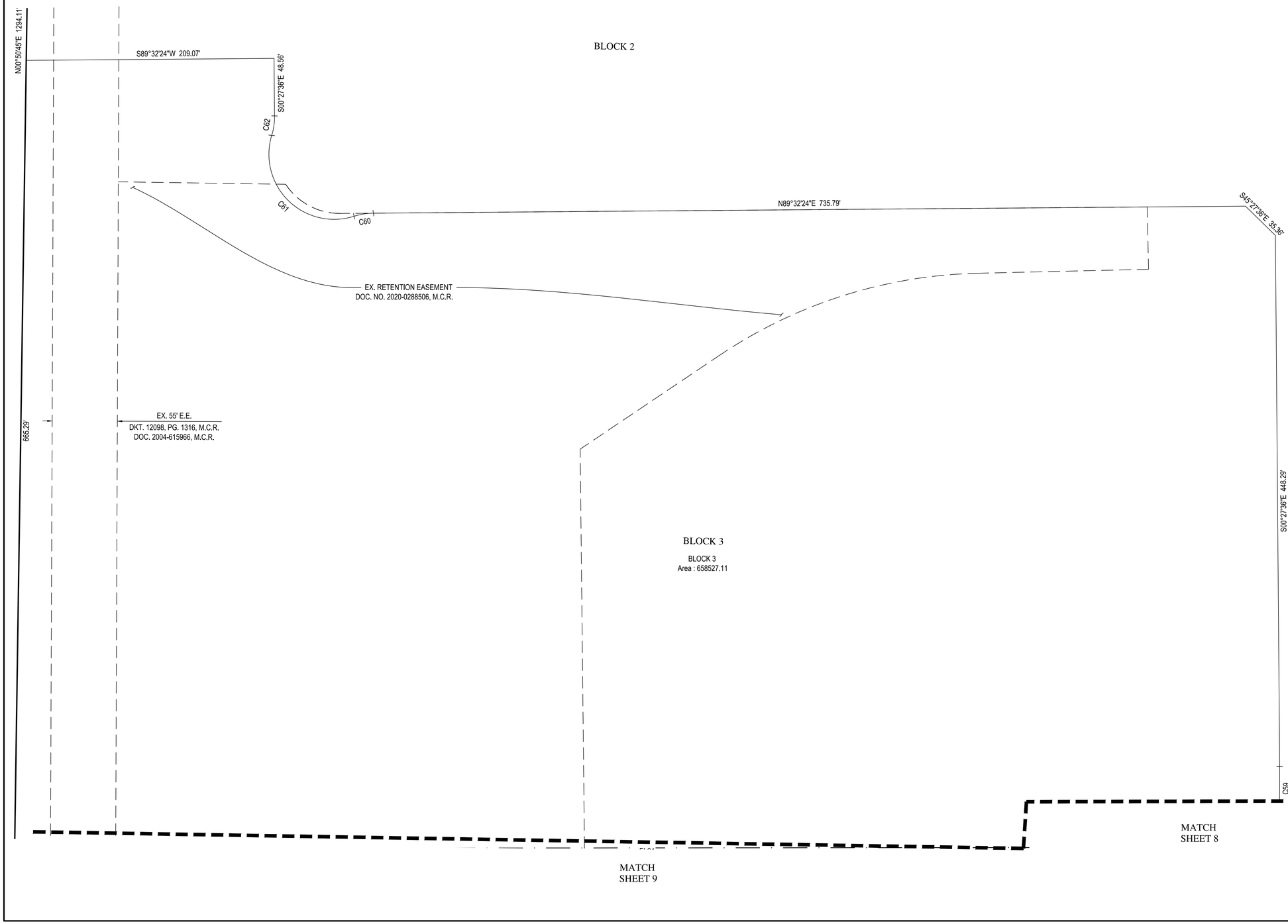
Horz. 1 in. = 40 ft.

LEGEND

SEE SHEET 2

LINE, CURVE & AREA TABLES

SEE SHEET 12



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FINAL PLAT

COPPER FALLS PARCEL 1

BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
48932
GABRIEL S. RIOS
12-31-21
Date Signed
ARIZONA, U.S.A.

EXPIRES 12-31-23

CHECKED BY GSR/BJD

CAD TECHNICIAN JKP/MJS

SCALE 1" = 40'

DATE 7/12/2021

JOB NUMBER WP# 184796.11

SHEET 11 OF 12

PLZS-20-00073

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LOT AREA TABLE

LOT NO.	LOT AREA SQUARE FEET	LOT AREA ACRES
LOT 1	6,236	0.14
LOT 2	6,236	0.14
LOT 3	6,286	0.14
LOT 4	6,253	0.14
LOT 5	5,677	0.13
LOT 6	5,570	0.13
LOT 7	5,865	0.13
LOT 8	8,008	0.18
LOT 9	6,650	0.15
LOT 10	5,243	0.12
LOT 11	5,243	0.12
LOT 12	5,243	0.12
LOT 13	5,243	0.12
LOT 14	5,243	0.12
LOT 15	5,527	0.13
LOT 16	7,277	0.17
LOT 17	9,606	0.22
LOT 18	7,739	0.18
LOT 19	5,110	0.12
LOT 20	5,175	0.12
LOT 21	5,175	0.12
LOT 22	5,063	0.12
LOT 23	5,638	0.13
LOT 24	5,175	0.12
LOT 25	5,175	0.12
LOT 26	5,175	0.12
LOT 27	5,175	0.12
LOT 28	5,353	0.12
LOT 29	5,578	0.13
LOT 30	7,335	0.17
LOT 31	5,162	0.12
LOT 32	5,175	0.12
LOT 33	5,175	0.12
LOT 34	5,175	0.12
LOT 35	5,175	0.12
LOT 36	5,175	0.12
LOT 37	5,175	0.12
LOT 38	5,175	0.12
LOT 39	5,175	0.12
LOT 40	5,175	0.12
LOT 41	5,175	0.12
LOT 42	5,162	0.12
LOT 43	5,989	0.14
LOT 44	5,245	0.12
LOT 45	5,309	0.12
LOT 46	5,310	0.12
LOT 47	5,310	0.12
LOT 48	5,310	0.12
LOT 49	5,175	0.12
LOT 50	5,089	0.12
LOT 51	5,175	0.12
LOT 52	5,175	0.12
LOT 53	6,351	0.15
LOT 54	5,178	0.12
LOT 55	5,184	0.12
LOT 56	5,520	0.13

LOT AREA TABLE

LOT NO.	LOT AREA SQUARE FEET	LOT AREA ACRES
LOT 57	5,667	0.13
LOT 58	5,641	0.13
LOT 59	5,655	0.13
LOT 60	5,435	0.12
LOT 61	5,198	0.12
LOT 62	5,198	0.12
LOT 63	5,198	0.12
LOT 64	5,198	0.12
LOT 65	5,198	0.12
LOT 66	6,078	0.14
LOT 67	5,598	0.13
LOT 68	5,175	0.12
LOT 69	5,175	0.12
LOT 70	5,175	0.12
LOT 71	5,175	0.12
LOT 72	5,175	0.12
LOT 73	5,177	0.12
LOT 74	5,853	0.13
LOT 75	7,523	0.17
LOT 76	8,172	0.19
LOT 77	6,236	0.14
LOT 78	6,242	0.14
LOT 79	5,431	0.12
LOT 80	5,236	0.12
LOT 81	5,657	0.13
LOT 82	6,759	0.16
LOT 83	6,143	0.14
LOT 84	6,236	0.14
LOT 85	6,236	0.14
LOT 86	6,236	0.14
LOT 87	6,236	0.14
LOT 88	6,236	0.14
LOT 89	6,236	0.14
LOT 90	6,421	0.15
LOT 91	6,481	0.15
LOT 92	6,337	0.15
LOT 93	6,507	0.15
LOT 94	6,288	0.14
LOT 95	6,069	0.14
LOT 96	6,000	0.14
LOT 97	6,000	0.14
LOT 98	6,000	0.14
LOT 99	6,042	0.14
LOT 100	6,125	0.14
LOT 101	6,208	0.14
LOT 102	6,250	0.14
LOT 103	6,250	0.14
LOT 104	6,149	0.14
LOT 105	6,372	0.15
LOT 106	6,003	0.14
LOT 107	6,016	0.14
LOT 108	6,016	0.14
LOT 109	6,028	0.14
LOT 110	6,191	0.14
LOT 111	6,326	0.15
LOT 112	6,091	0.14

LOT AREA TABLE

LOT NO.	LOT AREA SQUARE FEET	LOT AREA ACRES
LOT 113	5,938	0.14
LOT 114	6,050	0.14
LOT 115	6,050	0.14
LOT 116	6,050	0.14
LOT 117	6,050	0.14
LOT 118	6,050	0.14
LOT 119	6,050	0.14
LOT 120	6,050	0.14
LOT 121	6,055	0.14
LOT 122	6,164	0.14
LOT 123	6,255	0.14
LOT 124	6,537	0.15
LOT 125	6,221	0.14
LOT 126	6,221	0.14
LOT 127	6,221	0.14
LOT 128	6,221	0.14
LOT 129	6,221	0.14
LOT 130	6,221	0.14
LOT 131	6,221	0.14
LOT 132	6,125	0.14
LOT 133	6,257	0.14
LOT 134	6,343	0.15
LOT 135	6,342	0.15
LOT 136	6,342	0.15
LOT 137	6,342	0.15
LOT 138	6,342	0.15
LOT 139	6,343	0.15
LOT 140	6,342	0.15
LOT 141	6,304	0.14
LOT 142	6,179	0.14
LOT 143	6,008	0.14
LOT 144	6,000	0.14
LOT 145	6,000	0.14
LOT 146	6,000	0.14
LOT 147	6,000	0.14
LOT 148	6,000	0.14
LOT 149	6,000	0.14
LOT 150	6,000	0.14
LOT 151	5,888	0.14
LOT 152	5,895	0.14
LOT 153	6,000	0.14
LOT 154	6,000	0.14
LOT 155	6,000	0.14
LOT 156	6,100	0.14
LOT 157	6,100	0.14
LOT 158	6,100	0.14
LOT 159	6,100	0.14
LOT 160	6,100	0.14
LOT 161	6,192	0.14
LOT 162	7,074	0.16
LOT 163	7,074	0.16
LOT 164	6,394	0.15
LOT 165	6,394	0.15
LOT 166	6,394	0.15
LOT 167	6,394	0.15
LOT 168	6,296	0.14

LOT AREA TABLE

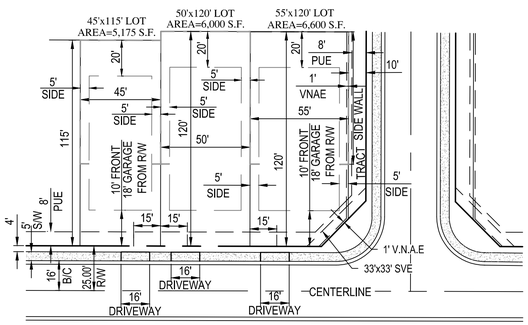
LOT NO.	LOT AREA SQUARE FEET	LOT AREA ACRES
LOT 169	6,594	0.15
LOT 170	10,361	0.24
LOT 171	10,519	0.24
LOT 172	6,950	0.16
LOT 173	6,000	0.14
LOT 174	6,000	0.14
LOT 175	6,100	0.14
LOT 176	6,100	0.14
LOT 177	6,100	0.14
LOT 178	6,000	0.14
LOT 179	6,000	0.14
LOT 180	6,051	0.14
LOT 181	6,151	0.14

TRACT AREA TABLE

TRACT NO.	TRACT AREA SQUARE FEET	TRACT AREA ACRES	USE
TRACT A	39,953	0.92	OPEN SPACE, LANDSCAPE AND RETENTION
TRACT B	1,900	0.04	OPEN SPACE AND LANDSCAPE
TRACT C	4,328	0.10	OPEN SPACE AND LANDSCAPE
TRACT D	30,466	0.70	OPEN SPACE, LANDSCAPE AND RETENTION
TRACT E	5,450	0.13	OPEN SPACE AND LANDSCAPE
TRACT F	3,981	0.09	OPEN SPACE AND LANDSCAPE
TRACT G	122,851	2.82	OPEN SPACE, LANDSCAPE AND RETENTION
TRACT H	2,295	0.05	OPEN SPACE AND LANDSCAPE
TRACT I	19,380	0.44	OPEN SPACE, LANDSCAPE AND RETENTION
TRACT J	57,565	1.32	OPEN SPACE, LANDSCAPE AND RETENTION
TRACT K	184,654	4.24	OPEN SPACE, LANDSCAPE AND RETENTION
TRACT L	2,332	0.05	OPEN SPACE AND LANDSCAPE
TRACT M	98,242	2.26	OPEN SPACE, LANDSCAPE AND RETENTION
TRACT N	2,010	0.05	OPEN SPACE AND LANDSCAPE
TRACT O	15,040	0.35	OPEN SPACE AND LANDSCAPE
TRACT P	2,010	0.05	OPEN SPACE AND LANDSCAPE
TRACT Q	998	0.02	OPEN SPACE AND LANDSCAPE

RIGHT-OF-WAY AREA TABLE

STREET NAME	AREA SQUARE FEET	AREA ACRES
251ST DR.	22,442	0.52
252ND DR.	20,094	0.46
253RD AVE.	92,353	2.12
253RD LANE	25,050	0.58
BOWKER ST.	62,318	1.43
COPPER FALLS BOULEVARD	207,609	4.77
HIDALGO AVE.	15,138	0.35
HUNTINGTON DR.	14,563	0.33
LA SALLE ST.	55,186	1.27
MILLER ROAD	117,522	2.70
SOUTHERN AVENUE	34,546	0.79
WAYLAND DR.	73,226	1.68



TYPICAL LOT DETAIL
N.T.S.

CURVE TABLE

CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
C1	17°20'29"	55.00'	16.65'	N80°35'19"W	16.58'
C2	124°40'58"	55.00'	119.69'	N45°44'27"E	97.43'
C3	17°20'29"	55.00'	16.65'	S7°55'48"E	16.58'
C4	17°20'29"	55.00'	16.65'	S9°24'41"W	16.58'
C5	124°40'58"	55.00'	119.69'	N44°15'33"W	97.43'
C6	17°20'29"	55.00'	16.65'	N82°04'12"E	16.58'
C7	1°23'51"	3611.61'	88.09'	S0°59'11"E	88.08'
C8	0°57'55"	2775.00'	46.75'	S0°15'29"W	46.75'
C9	1°04'41"	2830.00'	53.24'	S0°46'13"E	53.24'
C10	0°58'20"	2825.00'	47.93'	S0°15'17"W	47.93'
C11	2°03'00"	2800.00'	100.19'	S0°17'03"E	100.18'
C12	17°20'29"	55.00'	16.65'	N80°35'19"W	16.58'
C13	80°46'20"	55.00'	77.54'	N67°41'46"E	71.27'
C14	17°20'29"	55.00'	16.65'	S35°58'51"W	16.58'
C15	43°54'39"	175.00'	134.12'	S22°41'46"W	130.86'
C16	43°54'39"	200.00'	153.28'	S22°41'46"W	149.55'
C17	43°54'39"	225.00'	172.44'	S22°41'46"W	168.25'
C18	50°53'59"	175.00'	155.46'	S70°06'05"W	150.40'
C19	50°53'59"	200.00'	177.67'	S70°06'05"W	171.89'
C20	50°53'59"	225.00'	199.88'	S70°06'05"W	193.37'
C21	54°03'38"	225.00'	212.30'	N68°31'16"E	204.51'
C22	94°54'53"	200.00'	331.31'	N48°05'38"E	294.71'
C23	94°54'53"	175.00'	289.90'	N48°05'38"E	257.87'
C24	18°01'09"	430.00'	135.23'	S80°59'26"E	134.68'
C25	24°11'52"	400.00'	168.93'	S77°54'04"E	167.68'
C26	16°29'30"	370.00'	106.50'	S81°45'15"E	106.13'
C27	12°41'24"	225.00'	49.83'	N6°58'53"E	49.73'
C28	20°11'01"	525.00'	184.94'	N34°33'35"E	183.99'
C29	20°11'01"	500.00'	176.14'	N34°33'35"E	175.23'
C30	8°58'06"	475.00'	74.35'	N40°10'03"E	74.27'
C31	20°45'11"	1286.00'	465.80'	S78°08'11"E	463.26'
C32	31°51'25"	1261.00'	701.12'	S74°50'22"E	692.13'
C33	29°34'02"	1236.00'	637.83'	S73°41'41"E	630.78'
C34	4°23'36"	1286.00'	98.61'	S61°06'28"E	98.58'
C35	17°20'29"	55.00'	16.65'	N67°34'55"W	16.58'
C36	124°40'58"	55.00'	119.69'	S13°54'40"E	97.43'
C37	17°20'29"	55.00'	16.65'	S39°45'34"W	16.58'
C38	17°20'29"	55.00'	16.65'	S9°18'26"W	16.58'

CURVE TABLE

CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
C39	124°03'10"	55.00'	119.08'	N44°02'54"W	97.15'
C40	18°22'03"	55.00'	17.63'	N83°06'32"E	17.56'
C41	32°16'42"	970.00'	546.46'	S75°03'01"E	539.26'
C42	28°47'46"	945.00'	474.95'	S73°18'33"E	469.96'
C43	29°21'11"	995.00'	509.74'	S73°35'15"E	504.19'
C44	6°49'48"	870.00'	103.71'	N27°40'26"E	103.65'
C45	6°49'48"	900.00'	107.28'	N27°40'26"E	107.22'
C46	2°02'49"	930.00'	33.22'	N25°16'57"E	33.22'
C47	32°15'00"	780.00'	439.04'	S73°52'30"E	433.27'
C48	32°15'00"	740.00'	416.52'	S73°52'30"E	411.05'
C49	32°15'00"	700.00'	394.01'	S73°52'30"E	388.83'
C50	5°02'24"	1165.00'	102.48'	N60°16'12"W	102.45'
C51	21°04'59"	1165.00'	428.68'	N79°14'01"W	426.27'
C52	32°01'30"	1200.00'	670.73'	N73°45'45"W	662.03'
C53	22°45'23"	1235.00'	490.51'	N69°07'41"W	487.29'
C54	2°46'20"	1028.33'	49.76'	N88°37'15"W	49.75'
C55	3°53'29"	2500.00'	169.80'	S88°16'45"W	169.77'
C56	3°53'29"	2465.00'	167.42'	S88°16'45"W	167.39'
C57	4°30'44"	2535.00'	199.64'	N88°35'23"E	199.59'
C58	4°30'44"	2500.00'	196.88'	N88°35'23"E	196.83'
C59	3°34'42"	1465.00'	91.49'	N1°19'45"E	91.48'
C60	17°20'29"	55.00'	16.65'	S80°52'09"W	16.58'
C61	124°40'58"	55.00'	119.69'	S45°27'36"E	97.43'
C62	17°20'29"	55.00'	16.65'	N8°12'39"E	16.58'
C63	68°08'28"	55.00'	65.41'	N16°57'15"E	61.62'
C64	17°20'29"	55.00'	16.65'	S8°26'45"E	16.58'
C65	1°54'08"	875.00'	29.05'	N88°49'26"W	29.05'

LINE TABLE

LINE	BEARING	DISTANCE
L1	S43°41'26"W	39.23'
L2	N44°42'57"E	35.36'
L3	N57°56'39"W	20.75'
L4	N45°44'27"E	35.36'
L5	N89°46'32"E	5.00'
L6	S89°46'07"W	5.00'
L7	N44°15'33"W	35.36'
L8	S48°51'56"W	31.00'

LINE TABLE

LINE	BEARING	DISTANCE
L9	S44°15'33"E	35.36'
L10	S45°44'27"W	35.36'
L11	S13°05'14"E	33.93'
L12	S60°20'59"E	5.45'
L13	N29°39'01"E	50.00'
L14	N72°26'52"E	33.97'
L15	N27°31'50"W	35.94'
L16	N44°13'00"W	35.45'

LINE TABLE

LINE	BEARING	DISTANCE
L17	N45°47'21"E	35.26'
L18	N68°37'57"E	35.87'
L19	S19°41'48"E	35.87'
L20	N78°14'06"E	18.52'
L21	S13°54'40"E	35.36'
L22	N44°10'25"W	35.47'
L23	S76°05'05"W	35.35'
L24	N58°54'40"W	5.00'

LINE TABLE

LINE	BEARING	DISTANCE
L25	N31°05'20"E	22.00'
L26	N15°55'03"W	36.57'
L27	S89°21'49"E	5.00'
L28	S89°21'49"E	5.00'
L29	N00°38'11"E	187.07'
L30	N32°15'00"E	5.00'
L31	N32°15'00"E	5.00'
L32	S83°59'19"E	70.09'

AREA TABLE

NAME	AREA SQUARE FEET	AREA ACRES	USE
BLOCK 1	1,351,500	31.03	FUTURE DEVELOPMENT
BLOCK 2	3,259,491	74.83	FUTURE DEVELOPMENT
BLOCK 3	658,527	15.12	FUTURE SCHOOL SITE
R.O.W.	740,046	16.99	
LOTS	1,085,147	24.92	
TRACTS	593,457	13.62	
TOTAL	7,688,168	176.50	

EASEMENT LINE TABLE

LINE	BEARING	DISTANCE
EL1	N68°17'59"E	12.54'
EL2	N68°17'59"E	17.70'
EL3	S33°56'35"W	76.32'
EL4	S30°13'21"W	38.38'
EL5	S00°23'04"W	169.79'
EL6	S05°52'42"W	17.36'
EL7	S61°58'00"E	3.88'
EL8	S61°58'00"E	4.00'
EL9	S57°45'00"E	5.50'
EL10	S57°45'00"E	20.00'
EL11	S57°45'00"E	4.50'
EL12	S57°45'00"E	30.00'
EL13	S32°15'00"W	20.00'
EL14	N57°45'00"W	20.00'
EL15	S32°15'00"W	20.00'
EL16	S66°32'33"E	47.88'
EL17	S83°59'19"E	13.03'
EL18	S83°59'19"E	20.02'
EL19	S83°59'19"E	1.99'
EL20	N03°31'16"E	10.01'
EL21	N83°59'19"W	20.02'

EASEMENT LINE TABLE

LINE	BEARING	DISTANCE
EL22	N03°31'16"E	10.01'
EL23	N00°13'30"E	50.00'
EL24	S89°46'30"E	20.00'
EL25	N00°13'30"E	50.00'
EL25	N87°23'45"W	31.62'
EL26	S89°46'30"E	5.50'
EL27	S89°46'30"E	20.00'
EL28	S89°46'30"E	4.50'
EL29	S89°46'30"E	30.00'
EL30	N00°13'30"E	20.00'
EL31	S89°46'30"E	20.00'
EL32	N00°13'30"E	20.00'

WOOD PATEL

Wood, Patel & Associates, Inc.
Civil Engineering
Water Resources
Land Survey
Construction Management
602.335.8500
www.woodpatel.com

FINAL PLAT

COPPER FALLS PARCEL 1
BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
48932
GABRIEL S. RIOS
Date Signed 07-12-21
ARIZONA, U.S.A.

EXPIRES 12-31-23

CHECKED BY GSR/BJD
CAD TECHNICIAN JKP/MJS
SCALE N.T.S.
DATE 7/12/2021
JOB NUMBER WP# 184796.11
SHEET 12 OF 12

PLZS-20-00073

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1460

DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

ARIZONA DEPARTMENT of WATER RESOURCES
1110 West Washington Street, Suite 310
Phoenix, Arizona 85007
602.771.8500
azwater.gov

Via Electronic and Certified Mail

January 15, 2020

Terry Klinger
TGV Investments, LLC,
2241 E. Colter Street,
Phoenix, AZ 85016

Re: Certificate of Assured Water Supply
Copper Falls
DWR File No. 31-402043.0002

Dear Mr. Klinger:

The Arizona Department of Water Resources (Department) has determined that the criteria for an Assured Water Supply pursuant to A.R.S. § 45-576 and A.A.C. R12-15-701 *et seq.* have been met, and therefore the Director has decided to issue Certificate of Assured Water Supply No. 31-402043.0002, attached.

The City of Buckeye will provide water to the subdivision. The source of supply will be groundwater. The annual estimated water demand of the subdivision is 345.03 acre-feet per year for 639 lots, and the groundwater allowance for the subdivision for the 100-year period is 690.06 acre-feet. Pursuant to A.R.S. § 45-578(F), the total projected average annual replenishment obligation at build-out for each plat under the Certificate is 338.13 acre-feet per year.

The Department suggests you record your Certificate of Assured Water Supply in the appropriate county recorder's office. This will provide you with a permanent public record of the Certificate. This determination is applicable only to the persons or entities specified on the Certificate and for the plat reviewed by the Department, including non-material plat changes pursuant to A.A.C. R12-15-708.

Pursuant to A.R.S. § 41-1092.03, the Director's determination and decision to issue the Certificate is an appealable agency action. You are entitled to appeal this action. If you wish to appeal this action, you must file a written appeal within thirty (30) days from receipt of this letter. A summary of the appeal process and an appeal form are attached, should you elect to pursue this option.

Sincerely,

David L. McKay
Manager, AAWS & Recharge Permitting

DLM/evs

CC: Via Electronic Mail:

CAGRD
Arizona Department of Real Estate
Arizona Department of Environmental Quality
Arizona State Land Department

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
CERTIFICATE OF ASSURED WATER SUPPLY

This is to certify that

TGV Investments, LLC, an Arizona limited liability company, Owner,

has met the requirements of A.R.S. §§ 45-576 and A.A.C.R12-15-701 et. seq., and

By powers vested in the Director of the Arizona Department of Water Resources by the State of Arizona, and subject to the conditions contained in A.A.C. R12-15-701 et seq.,

Is issued this Certificate of Assured Water Supply for

Copper Falls
Township 1 North, Range 3 West, Section 30
GSRB&M Maricopa County, PHOENIX AMA

The referenced subdivision consists of **639 lots** as described in the preliminary plat on file with the Department, and has an estimated ~~water demand of **345.03 acre-feet per year.**~~ The subdivision will be served **groundwater** by **City of Buckeye.**

This Certificate is invalid as to any entity not named above.
This Certificate may be assigned pursuant to A.A.C. R12-15-705.

Certificate Number: 31-402043.0002
Original Issue Date: October 2, 2006

ARIZONA DEPARTMENT OF WATER RESOURCES

David L. Mik
Program Manager

01/15/2020
Date

TYPE A CERTIFICATE

ARIZONA DEPARTMENT OF WATER RESOURCES

NOTICE OF RIGHT TO APPEAL AGENCY ACTION

I. Right to Request Hearing

You have the right to request a hearing on the agency action described in the enclosed letter. To request a hearing, you must file a notice of appeal with the Docket Supervisor, Arizona Department of Water Resources, 1110 W. Washington St., Suite 310, Phoenix, Arizona 85007-2952 within thirty (30) days from the date of your receipt of this letter. A Notice of Appeal form is enclosed. Pursuant to A.R.S. § 41-1092.03, the grounds for appeal by a party who will be adversely affected by the agency action and who exercised a right to comment on the action provided by law or rule is limited to the issues raised in the party's comments.

If you file a timely notice of appeal, a hearing will be scheduled and you will be given written notice of the time and place for the hearing at least thirty (30) days before the hearing date. The date scheduled for the hearing may be advanced or delayed on the agreement of the Department and the parties to the action or on a showing of good cause. **If no party files a notice of appeal within thirty days from the date of receipt of the enclosed letter, the agency action described in the letter will become final and will not be subject to judicial review.**

II. Right to Request Informal Settlement Conference

If you file a timely notice of appeal as described above, you will have the right to request an informal settlement conference. A request for an informal settlement conference must be in writing and must be filed with the Docket Supervisor, Arizona Department of Water Resources, 1110 W. Washington St., Suite 310, Phoenix, Arizona 85007-2952 not later than twenty (20) days before the hearing date. The enclosed Notice of Appeal form includes a place for you to request an informal settlement conference. If you file a timely request for an informal settlement conference, the Department will give you written notice of the time and place for the settlement conference. An informal settlement conference must be held within fifteen (15) days after the request is filed.

If an informal settlement conference is held, a person with the authority to act on behalf of the Department will represent the Department at the conference. The parties participating in the settlement conference will waive their right to object to the participation of the Department's representative in the final administrative decision. Statements, either written or oral, made by the appellant at the conference, including a written document, created or expressed solely for the purpose of settlement negotiations, are inadmissible in any subsequent administrative hearing.

III. Agency Contact Person

If you have any questions regarding the appeals process, or the process for requesting an informal settlement conference, please contact the Docket Supervisor at (602) 771-8472.

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.AA. PLZS-20-00074 Copper Falls Parcel 2 Final Plat
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 1
STAFF LIAISON: Randy Proch, AICP, Senior Planner, rproch@buckeyeaz.gov (623) 986-0701	
DEPARTMENT: Development Services	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on a final plat for Copper Falls Parcel 2, generally located northwest of the intersection of Miller Road and Southern Avenue.

RELEVANT GOALS:
GOAL 3: A Well-Planned Urban Community

ADDITIONAL RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

SUMMARY

PROJECT DESCRIPTION:

The applicant has requested approval of a Final Plat of Parcel 2 of Copper Falls. The 31.03-acre plat is located generally north and west of the northwest corner of Miller Road and Southern Avenue. In includes 144 single-family residential lots with an overall gross density of 3.12 dwelling units to the acre. There are three (3) lot sizes proposed throughout the site, including: 45‘x115‘, 50‘x120‘, and 55‘x120‘. Approximately 6.09 acres of right-of-way (ROW) is being dedicated to the City of Buckeye through this application. The proposal is in substantial conformance to the Preliminary Plat and the Copper Falls Community Master Plan. All reviewing departments have approved this proposal. The applicant has also obtained a Certification of Assured Water Supply from the Arizona Department of Water Resources, per A.R.S. §9-463.01.I.

BENEFITS:
The approval of this plat will allow continued development of traditional single-family residences within the City of Buckeye.

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
PLZS-20-00074 Copper Falls Parcel 2 Vicinity Map.pdf
PLZS-20-00074 Copper Falls Parcel 2 Project Narrative.pdf
PLZS-20-00074 Copper Falls Parcel 2 Final Plat.pdf
PLZS-20-00074 Copper Falls Parcel 2 Certificate of Assured Water Supply.pdf

BUCKEYE, AZ

Vicinity Map



0 .25 .5 .75 1.0 Mile

N

1466

WOOD PATEL

2051 W Northern Ave #100
Phoenix AZ 85021
P: 602.335.8500
F: 602.335.8580
www.woodpatel.com

Darrel E. Wood, PE, RLS
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Michael T. Young, PE, LEED AP
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Thomas R. Gettings, RLS
Darin L. Moore, PE, LEED GA
Jeffrey R. Minch, PE, CFM
Robert D. Gofonia, PE, RLS

August 20, 2020

Project Narrative

Copper Falls Parcel 2
Final Plat
WP# 184796.11

Copper Falls Parcel 2 is located west of Miller Road between West Broadway Road and West Southern Avenue.

The purpose of this final plat is to create lots 209 through 325, inclusive. This plat will be a Re-Plat of Block 1 per the Final Plat for Copper Falls Parcel 1. The current site conditions are agriculture.

Sincerely,

Wood, Patel & Associates, Inc.

Brian J. Diehl, RLS
Survey Project Manager

BJD/bl

Exhibit: Boundary Map

Y:\WP\General Correspondence\184796.11 Copper Falls Parcel 2 Final Plat Project Narrative 08-20-20.docx

FINAL PLAT

FOR

COPPER FALLS PARCEL 2

RECEIVED
12 JUL 2021
CITY OF BUCKEYE by: RP

PLZS-20-00074
5th Submittal

A REPLAT OF BLOCK 1 OF COPPER FALLS PARCEL 1, RECORDED IN BOOK _____, PAGE _____, MARICOPA COUNTY RECORDS (M.C.R.)
LYING IN A PORTION OF THE EAST HALF OF SECTION 30, TOWNSHIP 1 NORTH,
RANGE 3 WEST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

DEDICATION

STATE OF ARIZONA)
) ss
COUNTY OF MARICOPA)

KNOW ALL MEN BY THESE PRESENTS:

THAT FORESTAR (USA) REAL ESTATE GROUP INC., A DELAWARE CORPORATION, (OWNER), HAS SUBDIVIDED UNDER THE NAME OF "COPPER FALLS PARCEL 2", A REPLAT OF BLOCK 1 OF COPPER FALLS PARCEL 1, RECORDED IN BOOK _____, PAGE _____, M.C.R., LYING IN A PORTION OF THE EAST HALF OF SECTION 30, TOWNSHIP 1 NORTH, RANGE 3 WEST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, AS SHOWN AND PLATTED HEREON AND DOES HEREBY PUBLISH THIS PLAT AS AND FOR THE PLAT OF "COPPER FALLS PARCEL 2" AND DECLARES THAT THIS FINAL PLAT SETS FORTH THE LOCATION AND GIVES THE DIMENSIONS OF EACH LOT, TRACT, STREET, AND EASEMENT, CONSTITUTING SAME, AND THAT EACH LOT, TRACT, STREET, AND EASEMENT SHALL BE KNOWN BY THE NUMBER, LETTER, AND/OR NAME GIVEN TO EACH RESPECTIVELY AS SHOWN ON THIS PLAT.

OWNER HEREBY DEDICATES TO THE CITY OF BUCKEYE FEE TITLE TO ALL PUBLIC RIGHT-OF-WAYS (R/W) AS SHOWN ON THIS PLAT.

OWNER HEREBY GRANTS TO THE CITY OF BUCKEYE A NON-EXCLUSIVE EASEMENT OVER, UPON AND ACROSS THE AREAS DESIGNATED AS PUBLIC UTILITY EASEMENTS AS SHOWN ON THE PLAT FOR THE PURPOSE OF INSTALLING, CONSTRUCTION, MAINTAINING, REPAIRING, REPLACING AND UTILIZING PUBLIC UTILITIES.

OWNER HEREBY GRANTS TO THE CITY OF BUCKEYE A NON-EXCLUSIVE EASEMENT OVER, UPON AND ACROSS THE AREAS DESIGNATED AS SIGHT VISIBILITY EASEMENTS FOR THE PURPOSE OF ENSURING THAT THESE AREAS REMAIN FREE OF SIGHT VISIBILITY OBSTRUCTIONS AS PER THE ENGINEERING DESIGN STANDARDS.

OWNER HEREBY GRANTS TO THE CITY OF BUCKEYE A NON-EXCLUSIVE EASEMENT OVER, UPON AND ACROSS THE AREAS DESIGNATED AS VNAE FOR THE PURPOSE OF PREVENTING VEHICULAR ACCESS.

THE MAINTENANCE OF LANDSCAPING WITHIN THE OPEN SPACES, LANDSCAPED TRACTS, RETENTION BASINS AND PARKS SHALL BE THE RESPONSIBILITY OF THE OWNER OR THE ASSOCIATION FORMED BY THE OWNER.

THE MAINTENANCE OF LANDSCAPING WITHIN THE ADJACENT PUBLIC RIGHT-OF-WAYS, INCLUDING; LANDSCAPED MEDIANS WITHIN COLLECTORS AND LOCAL STREETS AND LANDSCAPED AREAS BETWEEN THE CURB AND THE DETACHED SIDEWALK, SHALL BE THE RESPONSIBILITY OF THE ADJACENT PROPERTY OWNER OR THE PROPERTY ASSOCIATION FORMED BY THE ADJACENT PROPERTY.

FORESTAR (USA) REAL ESTATE GROUP INC., A DELAWARE CORPORATION, (OWNER) DOES HEREBY; (1) RELEASE AND DISCHARGE THE CITY OF BUCKEYE, AND (2) INDEMNIFY, DEFEND, AND HOLD HARMLESS THE CITY OF BUCKEYE, OF AND FROM ANY LIABILITY FOR ANY AND ALL CLAIMS FOR DAMAGES OF ANY KIND TO PERSONS OR PROPERTY THAT MAY ARISE AT ANY TIME IN THE FUTURE OVER, OR IN CONNECTION WITH THE AREAS LOCATED WITHIN THE NEWLY DEDICATED RIGHT-OF-WAY AS DEPICTED ON THIS PLAT UNTIL SUCH TIME THE RIGHT-OF-WAY IS IMPROVED TO CITY STANDARDS AND THOSE IMPROVEMENTS ARE APPROVED AND ACCEPTED BY THE CITY. THE MAINTENANCE OF THE AREA WITHIN ANY NEWLY DEDICATED RIGHT-OF-WAY AS SHOWN ON THIS PLAT SHALL BE THE RESPONSIBILITY OF THE ADJACENT OWNER/OR SUBSEQUENT ADJACENT OWNERS WITHIN THE BOUNDARY OF SAID PLAT UNTIL SUCH TIME THAT THE AREA WITHIN THE RIGHT-OF-WAY IS IMPROVED TO CITY STANDARD AND ACCEPTED BY THE CITY OF BUCKEYE.

ALL IMPROVEMENTS, FOR STREETS AND PUBLIC UTILITIES OWNED AND OPERATED BY THE CITY, INSTALLED OR CONSTRUCTED BY OWNER WITHIN THE PUBLIC RIGHT-OF-WAYS, THE EASEMENTS, OR ANY LOTS, OR TRACTS HEREBY DEDICATED TO THE CITY OF BUCKEYE SHALL BE DEEMED TO HAVE BEEN DEDICATED BY OWNER TO THE CITY UPON THEIR COMPLETION; HOWEVER, SUCH TRANSFER SHALL NOT OCCUR UNTIL THE CITY OF BUCKEYE MANIFESTS ITS ACCEPTANCE BY SEPARATE FORMAL ACTION.

THE EASEMENTS GRANTED WITHIN THIS DEDICATION ARE PERMANENT AND PERPETUAL AND SHALL RUN WITH THE LAND AND BE BINDING UPON OWNERS AND THEIR HEIRS, ASSIGNS, AND SUCCESSORS IN INTEREST TO THIS PLAT OR ANY LOT THEREOF.

TRACTS DESIGNATED AS TRACT R THROUGH TRACT Y ARE HEREBY DECLARED AS COMMON AREAS TO BE OWNED AND MAINTAINED BY THE HOMEOWNERS ASSOCIATION.

OWNER WARRANTS AND REPRESENTS TO THE CITY OF BUCKEYE TO BE THE SOLE OWNER OF THE PROPERTY COVERED HEREBY AND THAT EVERY LENDER, EASEMENT HOLDER, OR OTHER PERSON, OR ENTITY, HAVING ANY INTEREST IN THE LAND ADVERSE TO OR INCONSISTENT WITH THE DEDICATION, CONVEYANCES OR OTHER REAL PROPERTY INTEREST CREATED OR TRANSFERRED BY THIS PLAT HAS CONSENTED TO, OR JOINED IN THE PLAT, AS EVIDENCED BY INSTRUMENTS WHICH ARE RECORDED WITH THE MARICOPA COUNTY RECORDER'S OFFICE, OR WHICH OWNER WILL RECORD NOT LATER THAN THE DATE ON WHICH THIS PLAT IS RECORDED.

IN WITNESS WHEREOF, OWNER HAS HEREUNTO CAUSED ITS NAME TO BE SIGNED AND ITS CORPORATE SEAL TO BE AFFIXED BY THE UNDERSIGNED, DULY AUTHORIZED OFFICER THIS

_____ DAY OF _____, 20__.

FORESTAR (USA) REAL ESTATE GROUP INC., A DELAWARE CORPORATION

BY: _____

ITS: _____

OWNER

FORESTAR (USA) REAL ESTATE GROUP INC.
1661 E CAMELBACK RD, STE 330
PHOENIX, ARIZONA 85016
PHONE: (480) 213-6827
CONTACT: MR. BRIAN KONDERIK

CIVIL ENGINEER

WOOD, PATEL & ASSOCIATES, INC.
2051 W. NORTHERN AVE.
PHOENIX, ARIZONA 85021
PHONE: (602)335-8500
FAX: (602)335-8580
CONTACT: MR. MICHAEL T. YOUNG

ACKNOWLEDGMENT

STATE OF ARIZONA)
) ss
COUNTY OF MARICOPA)

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS___DAY OF_____, 20__,

BY_____. THE_____

OF FORESTAR (USA) REAL ESTATE GROUP INC., A DELAWARE CORPORATION , FOR AND ON BEHALF THEREOF.

_____ _____ _____
NOTARY PUBLIC MY COMMISSION EXPIRES

APPROVALS

APPROVED BY THE COUNCIL OF THE CITY OF BUCKEYE ON THIS_____DAY

OF _____ 20__.

BY: _____
MAYOR

ATTEST: _____
CITY CLERK

I CERTIFY THAT ALL ENGINEERING CONDITIONS AND REQUIREMENTS HAVE BEEN COMPLIED WITH.

BY:_____
BUCKEYE CITY ENGINEER DATE

BY:_____
DEVELOPMENT SERVICES DIRECTOR DATE

BASIS OF BEARING

THE HORIZONTAL DATUM FOR THIS SURVEY IS BASED ON THE MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT) GEODETIC DENSIFICATION AND CADASTRAL SURVEY (GDACS) WEBSITE "WWW.MCDOT.MARICOPA.GOV", UNDER THE SURVEY INFORMATION LINK ON APRIL 18, 2018.

PROJECTION: ARIZONA CENTRAL ZONE, NAD 83, (EPOCH 2010)
DATUM: GRS-80
UNITS: INTERNATIONAL FEET
GEOID MODEL: GEOID 12A

CONTROL POINT #	4AG1
PID #	AJ3825
LATITUDE:	N33°22'40.40617" N
LONGITUDE:	112°36'31.58136" W
ELLIPSOID HEIGHT:	791.686 (METERS)
DESCRIPTION:	ALUMINUM CAP ON STAINLESS STEEL ROD STAMPED 4AG1 1999

MODIFIED TO GROUND AT (GRID) N:873456.412, E:494224.029, USING A SCALE FACTOR OF 1.0000920200.

HORIZONTAL ADJUSTMENT: N -79.484 E -45.144
HORIZONTAL ROTATION: -00° 00' 03.46505"

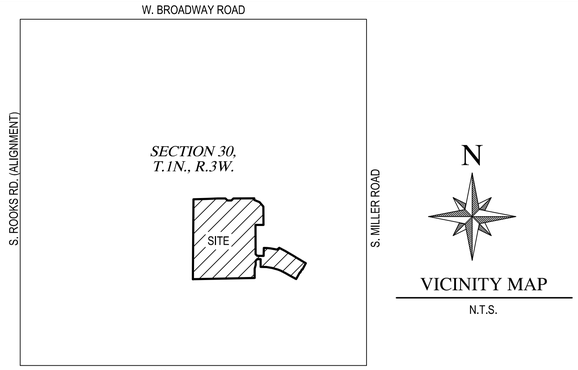
RESULTING IN A BEARING OF S00° 38' 11" W ALONG THE EAST LINE OF THE SOUTHEAST QUARTER OF SECTION 30, T. 1N., R. 3W, OF THE GILA AND SALT RIVER MERIDIAN.

INDEX SHEET

SHEET 1	DEDICATION, ACKNOWLEDGMENT, CERTIFICATION AND NOTES
SHEET 2	SITE MAP AND LEGEND
SHEETS 3-5	PLAN SHEETS
SHEET 6	LOT DETAIL, LINE, CURVE AND AREA TABLES

FLOOD ZONE DESIGNATION

THE PROPERTY IS LOCATED WITHIN AN AREA DESIGNATED AS HAVING FLOOD ZONE X BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, ON FLOOD INSURANCE RATE MAP NO. 04013C2115L, WITH A REVISION DATE OF OCTOBER 16, 2013 FOR COMMUNITY NO. 040039, IN THE CITY OF BUCKEYE, COUNTY OF MARICOPA, STATE OF ARIZONA, WHICH IS THE CURRENT FLOOD INSURANCE RATE MAP FOR THE COMMUNITY IN WHICH SAID PROPERTY IS SITUATED.



VICINITY MAP
N.T.S.

NOTES

1. THE PROPERTY OWNERS, OR ANY SUBSEQUENT OWNERS SHALL NOT PROCEED WITH ANY ON SITE GRADING OR EXCAVATION WITHOUT FIRST OBTAINING A PERMIT FROM THE CITY OF BUCKEYE.
2. IN ACCORDANCE WITH ARS § 9-461.07, THE CITY OF BUCKEYE HAS DETERMINED THAT ALL DEDICATIONS OCCURRING WITH THIS PLAT ARE IN CONFORMANCE WITH THE GENERAL PLAN.
3. PURSUANT TO A.R.S. § 42-11102, THE CITY OF BUCKEYE, A POLITICAL SUBDIVISION OF THE STATE OF ARIZONA, IS EXEMPT FROM ALL TAXES AND ASSESSMENTS BASED ON ASSESSED VALUE EXCEPT FOR SPECIAL DISTRICTS #14751 AND 14710, WHEN APPLICABLE.
4. THIS SITE CONSISTS OF A TOTAL OF 144 LOTS AND 8 TRACTS IN THE PC-PLANNED COMMUNITY ZONING DISTRICT.
5. THIS FINAL PLAT IS IN SUBSTANTIAL CONFORMANCE WITH THE PRELIMINARY PLAT APPROVED ON JUNE 25, 2019 UNDER CASE # PLZ-18-00232.
6. THIS SUBDIVISION WAS ISSUED A CERTIFICATE OF ASSURED WATER SUPPLY BY ARIZONA DEPARTMENT OF WATER RESOURCES ON JANUARY 15, 2020 WITH ADWR CERTIFICATE NO. 31-402043.0002.
7. NO STRUCTURE OF ANY KIND SHALL BE CONSTRUCTED OR ANY VEGETATION TO BE PLANTED OR BE ALLOWED TO GROW WITHIN ANY DRAINAGE EASEMENT WHICH WOULD IMPEDE THE FLOW OF WATER OVER, UNDER, OR THROUGH EASEMENTS.
8. FINAL PLAT APPROVAL BY THE CITY IS CONDITIONAL AND SUBJECT TO FINANCIAL ASSURANCES BEING IN PLACE FOR ALL IMPROVEMENTS AS SHOWN ON THE APPROVED PLANS. THE CITY WILL NOT RECORD ANY PLATS UNTIL SUCH TIME FINANCIAL ASSURANCES ARE IN PLACE. IF AFTER 180 DAYS FROM CITY COUNCIL APPROVAL THE FINAL PLAT HAS NOT BEEN RECORDED, THEN IT SHALL BE NULL AND VOID. A VALID PRELIMINARY PLAT NEEDS TO BE IN PLACE PRIOR TO APPROVAL OF ANY FINAL PLAT ASSOCIATED WITHIN THE PROJECT IN ACCORDANCE WITH THE DEVELOPMENT CODE. THE SIGNED PLAT WILL NOT BE SUBMITTED TO THE CITY FOR SIGNATURE AND RECORDING UNTIL FINANCIAL ASSURANCES ARE IN PLACE.
9. ALL NEW OR RELOCATED UTILITIES WILL BE PLACED UNDERGROUND EXCEPT POWER LINES 69KV AND LARGER.
10. EXCEPT FOR CONSTRUCTION AND IMPROVEMENTS BY GOVERNMENTAL ENTITIES AND CERTIFIED PUBLIC UTILITIES, CONSTRUCTION AND IMPROVEMENTS WITHIN PUBLIC UTILITY EASEMENTS SHALL BE LIMITED TO ONLY THE FOLLOWING:

    A. WOOD, WIRE, OR REMOVABLE SECTION TYPE FENCING.
    B. CONSTRUCTION, STRUCTURES, OR BUILDINGS EXPRESSLY APPROVED IN WRITING BY THE CITY OF BUCKEYE AND ALL PUBLIC UTILITIES WHICH USE OR MAY USE THE EASEMENT.

11. AN 18" REBAR WITH AN R.L.S. CAP WILL BE SET AT ALL SUBDIVISION CORNERS, BLOCK CORNERS, AND POINTS OF CURVATURE AT THE COMPLETION OF MASS GRADING.
12. ALL MEASUREMENTS ARE THE SAME AS RECORD UNLESS OTHERWISE NOTED. ALL FOUND MONUMENTS ARE WITHIN ACCEPTABLE TOLERANCES PER ARIZONA BOUNDARY SURVEY MINIMUM STANDARDS, UNLESS OTHERWISE NOTED.
13. EXISTING TEMPORARY WATERLINE EASEMENT WILL BE TERMINATED UPON CITY OF BUCKEYE ACCEPTANCE OF STREET IMPROVEMENTS.
14. THIS SUBDIVISION IS SUBJECT TO A PARKWAY MAINTENANCE IMPROVEMENT DISTRICT (MID) FORMED PURSUANT TO A.R.S. 48-574 WHICH MAY LEVY ANNUAL ASSESSMENTS OR ANNUAL AD VALORUM TAXES TO COVER THE COSTS OF MAINTAINING THE LANDSCAPING AND ORNAMENTATION ON STREETS WITHIN OR SERVING THE SUBDIVISION. MID NO. 2020-MID-003 WAS RECORDED IN DOCUMENT 2020-108559, M.C.R.
15. THIS SUBDIVISION IS SUBJECT TO THE FORMATION OF A STREET LIGHT IMPROVEMENT DISTRICT (SLID# 2020-SLID-003). SLID NO. 2020-SLID-003 WAS RECORDED IN DOCUMENT 2020-108557, M.C.R.

CERTIFICATION

I, GABRIEL S. RIOS, OF WOOD, PATEL & ASSOCIATES, INC. HEREBY CERTIFY THAT I AM A REGISTERED LAND SURVEYOR IN THE STATE OF ARIZONA; THAT THIS FINAL PLAT CONSISTING OF SIX (6) SHEETS CORRECTLY REPRESENTS A BOUNDARY SURVEY MADE BY ME DURING THE MONTH OF JUNE, 2018; THAT THIS SURVEY IS TRUE AND CORRECT AS SHOWN, THAT ALL MONUMENTS EXIST OR WILL BE SET AND, THAT THEIR POSITIONS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

GABRIEL S. RIOS, REGISTERED LAND SURVEYOR #48932
WOOD, PATEL & ASSOCIATES, INC.
1630 SOUTH STAPLEY DRIVE - SUITE 219
MESA, ARIZONA 85204
(480) 834-3300
SURVEYOR@WOODPATEL.COM

WOOD PATEL

Wood, Patel & Associates, Inc.

Civil Engineering
Water Resources
Land Survey
Construction Management

602.335.8500

www.woodpatel.com

FINAL PLAT
COPPER FALLS PARCEL 2
BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
48932
GABRIEL S.
RIOS
Date Signed 07-12-21
ARIZONA, U.S.A.

EXPIRES 12-31-23

CHECKED BY	GSR/BJD
CAD TECHNICIAN	JKP/MJS
SCALE	N.T.S.
DATE	7/12/2021
JOB NUMBER	WP# 184796.11
SHEET	1 OF 6

PLZS-20-00074
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LINE, CURVE & AREA TABLES

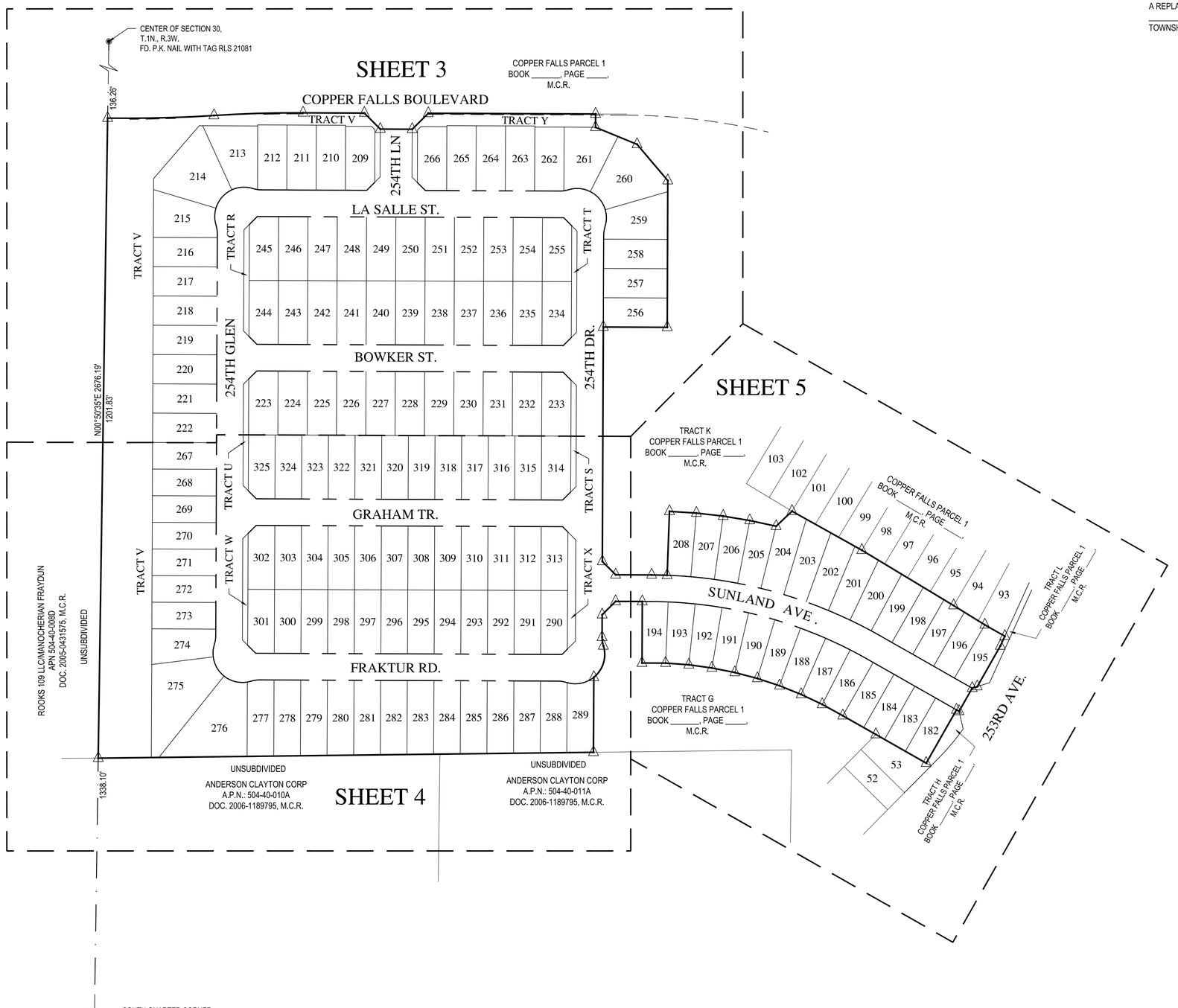
SEE SHEET 6

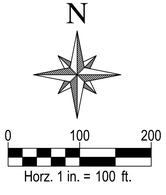
DESCRIPTION

A REPLAT OF BLOCK 1 OF COPPER FALLS PARCEL 1 RECORDED IN BOOK _____, PAGE _____, MARICOPA COUNTY RECORDS (M.C.R.) LYING IN A PORTION OF THE EAST HALF OF SECTION 30, TOWNSHIP 1 NORTH, RANGE 3 WEST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA

LEGEND

△	CORNER OF THIS SUBDIVISION - SET MONUMENT W/RLS TAG OR CAP UNLESS OTHERWISE NOTED
◉	SURVEY MONUMENT FOUND AS NOTED
○	CENTERLINE MONUMENTATION-SET BRASS CAP FLUSH UPON COMPLETION OF PROJECT PER M.A.G. STANDARD DETAIL 120 TYPE "A"
DKT.	DOCKET
E.E.	ELECTRIC EASEMENT
EX.	EXISTING
M.C.R.	MARICOPA COUNTY RECORDS
PG.	PAGE
P.U.E.	PUBLIC UTILITY EASEMENT
R/W	RIGHT-OF-WAY
S.L.E.	STREET LIGHT EASEMENT
S.V.E.	SIGHT VISIBILITY EASEMENT
W.L.E.	WATERLINE EASEMENT
V.N.A.E.	VEHICULAR NON-ACCESS EASEMENT
———	BOUNDARY LINE
– – – –	EASEMENT LINE AS NOTED
———	RIGHT-OF-WAY LINE
———	PROPERTY LINE
— · —	SECTION LINE





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FINAL PLAT

COPPER FALLS PARCEL 2
BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO. 48932
GABRIEL S. RIOS
Date Signed 07-12-21
ARIZONA, U.S.A.
EXPIRES 12-31-23

CHECKED BY	GSR/BJD
CAD TECHNICIAN	JKP/MJS
SCALE	1" = 100'
DATE	7/12/2021
JOB NUMBER	WP# 184796.11
SHEET	2 OF 6

PLZS-20-00074

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LINE, CURVE & AREA TABLES

SEE SHEET 6

LEGEND

SEE SHEET 2

CENTER OF SECTION 30,
T.1N., R.3W.
FD. P.K. NAIL WITH TAG RLS 21081

136.26'

EX. 55' E.E.
DKT. 12098, PG. 1316, M.C.R.
& DOC. 2004-615966, M.C.R.

ROOKS 109 LLC/MANOCHERIAN FRAYDUN
APN 504-40-006D
DOC. 2005-043175, M.C.R.
UNSUBDIVIDED

TRACT V

COPPER FALLS BOULEVARD

EX. S.W.E.
BK. _____, PG. ____, MCR

EX. S.W.E.
BK. _____, PG. ____, MCR

S89°46'30"E 114.92'

S89°46'30"E 313.91'

S.V.E.

EX. TEMPORARY W.L.E.
COPPER FALLS PARCEL 1
BOOK _____, PAGE _____, M.C.R.
TO BE ABANDONED HEREON

COPPER FALLS PARCEL 1
BOOK _____, PAGE ____,
M.C.R.

EX. S.W.E.
BK. _____, PG. ____, MCR

TRACT Y

TRACT R

TRACT T

TRACT K
COPPER FALLS PARCEL 1
BOOK _____, PAGE _____,
M.C.R.

254TH LN

254TH GLEN

254TH DR.

LA SALLE ST.

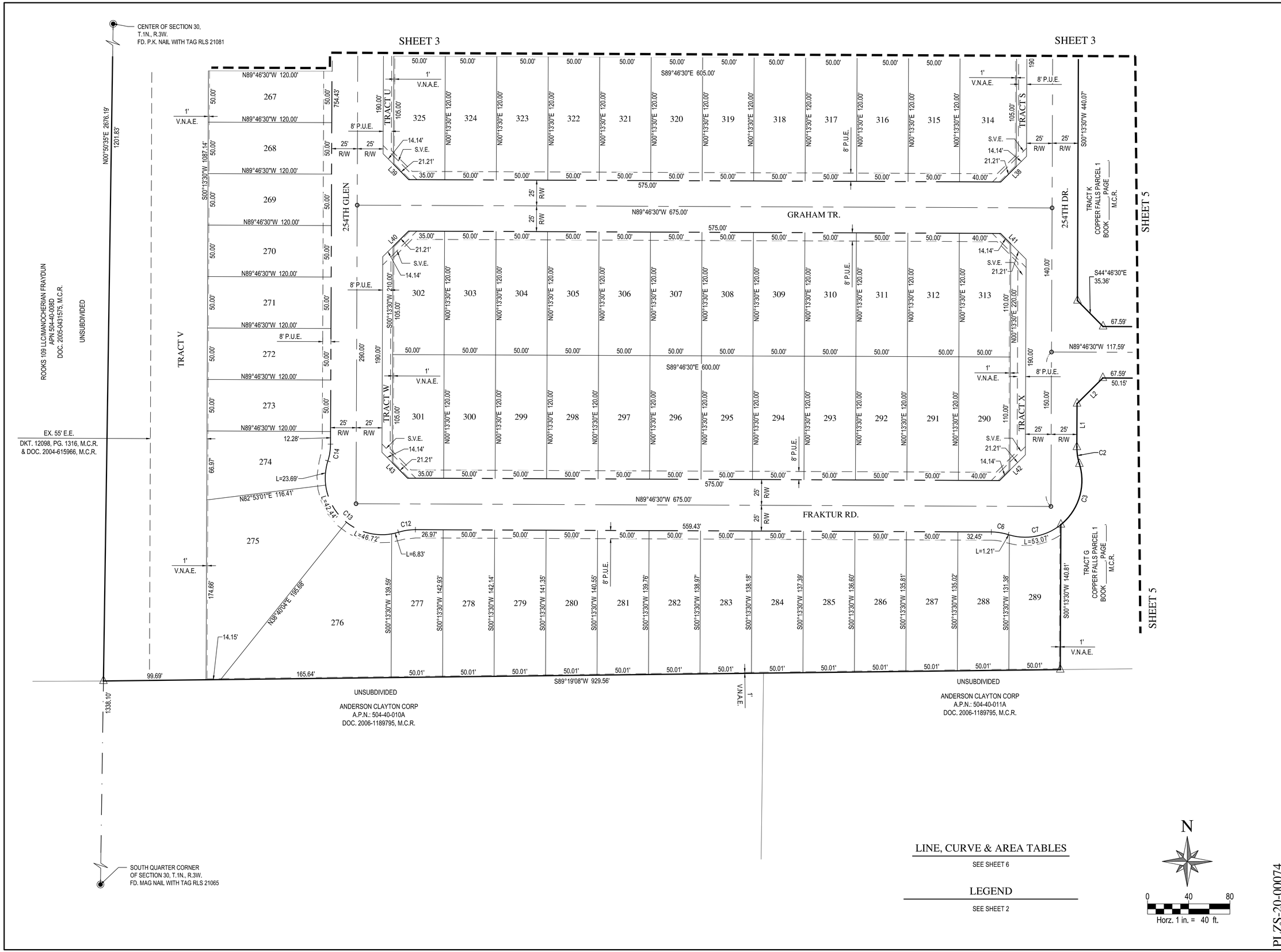
BOWKER ST.

N89°46'30"W 675.00'

S89°46'30"E 605.00'

N89°46'30"W 109.76'
103.46'
6.29'
S40°50'05"W 130.96'
S24°33'01"E 132.23'
20.91'
S73°29'21"E 122.11'
89.60'
N89°46'30"W 120.00'
55.00'
290.00'
190.00'
105.00'
S00°13'30"W 210.00'
S00°13'30"W 1087.14'
S00°13'30"W 870.00'
N00°50'35"E 2676.19'
1201.83'
2.00'
55.00'
119.45'
N00°13'30"E 121.45'
1'
V.N.A.E.
8' P.U.E.
L=8.83'
L=7.81'
L=40.43'
L=46.98'
47.21'
197.21'
40.00'
14.14'
S.V.E.
21.21'
L=32.28'
7.15'
C15
C16
C17
C18
C19
C4
C5
C11
L22
L23
L24
L25
L26
L27
L28
L29
L30
L31
L32
L33
L34
L35
L36
L37
EL1
1.86'
2.00'
40.57'
30.00'
65.00'
90.00'
140.00'
98.69'
N00°13'30"E 205.00'
N00°13'30"E 98.69'
N00°13'30"E 122.00'
N00°13'30"E 120.00'
N00°13'30"E 119.45'
84.65'
30.28'
S67°40'39"E 84.33'
45.84'
38.49'
S40°16'40"E 89.24'
S26°47'24"W 115.76'
20.75'
S73°56'20"W 122.11'
172.15'
S89°46'30"E 120.00'
S00°13'30"W 275.35'
N89°46'30"W 120.00'
S00°13'30"W 440.07'
S00°13'30"W 870.00'
310.00'
365.00'
575.00'
25' R/W
8' P.U.E.
8'
P.U.E.
1' V.N.A.E.
113.91'
58.91'
119.45'
252.21'
262.21'
42.15'
45.26'
N00°13'30"E 122.00'
N00°13'30"E 120.00'
N00°13'30"E 119.45'
S00°13'30"W 210.00'
S00°13'30"W 120.00'
105.00'
190.00'
290.00'
55.00'
40.00'
21.21'
14.14'
S.V.E.
1' V.N.A.E.
8' P.U.E.
8'
P.U.E.
25' R/W
S89°46'30"E 120.00'
N89°46'30"W 120.00'
55.00'
172.15'
1' V.N.A.E.

| | | |



LINE, CURVE & AREA TABLES

SEE SHEET 6

LEGEND

SEE SHEET 2

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602.335.8500

www.woodpatel.com

FINAL PLAT

COPPER FALLS PARCEL 2

BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO. 48932
GABRIEL S. RIOS
Date Signed 07-12-21
ARIZONA, U.S.A.
EXPIRES 12-31-23

CHECKED BY	GSR/BJD
CAD TECHNICIAN	JKP/MJS
SCALE	1" = 40'
DATE	7/12/2021
JOB NUMBER	WP# 184796.11
SHEET	4 OF 6

PLZS-20-00074

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LINE, CURVE & AREA TABLES

SEE SHEET 6

LEGEND

SEE SHEET 2



N

0 40 80

Horz. 1 in. = 40 ft.

WOOD PATEL

Wood, Patel & Associates, Inc.

Civil Engineering
Water Resources
Land Survey
Construction Management

602.335.8500

www.woodpatel.com

FINAL PLAT

COPPER FALLS PARCEL 2

BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
23945
BRIAN J.
DIEHL
Date Signed 07-12-21
ARIZONA U.S.A.

EXPIRES 09-30-23

CHECKED BY	GSR/BJD
CAD TECHNICIAN	JKP/MJS
SCALE	1" = 40'
DATE	7/12/2021
JOB NUMBER	WP# 184796.11
SHEET	5 OF 6

PLZS-20-00074

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LOT AREA TABLE

LOT NO.	LOT AREA SQUARE FEET	LOT AREA ACRES
LOT 182	5,175	0.12
LOT 183	5,175	0.12
LOT 184	5,175	0.12
LOT 185	5,177	0.12
LOT 186	5,376	0.12
LOT 187	5,451	0.13
LOT 188	5,451	0.13
LOT 189	5,451	0.13
LOT 190	5,451	0.13
LOT 191	5,451	0.13
LOT 192	5,451	0.13
LOT 193	5,451	0.13
LOT 194	5,356	0.12
LOT 195	5,138	0.12
LOT 196	5,215	0.12
LOT 197	5,286	0.12
LOT 198	5,340	0.12
LOT 199	5,530	0.13
LOT 200	5,822	0.13
LOT 201	6,075	0.14
LOT 202	6,402	0.15
LOT 203	6,850	0.16
LOT 204	6,997	0.16
LOT 205	5,693	0.13
LOT 206	5,693	0.13
LOT 207	5,693	0.13
LOT 208	5,693	0.13
LOT 209	6,468	0.15
LOT 210	6,710	0.15
LOT 211	6,710	0.15
LOT 212	6,709	0.15
LOT 213	8,935	0.21
LOT 214	12,480	0.29
LOT 215	8,502	0.20
LOT 216	6,600	0.15
LOT 217	6,600	0.15
LOT 218	6,600	0.15
LOT 219	6,600	0.15
LOT 220	6,600	0.15
LOT 221	6,600	0.15
LOT 222	6,600	0.15
LOT 223	6,488	0.15
LOT 224	6,600	0.15
LOT 225	6,600	0.15
LOT 226	6,600	0.15
LOT 227	6,600	0.15
LOT 228	6,600	0.15
LOT 229	6,600	0.15
LOT 230	6,600	0.15
LOT 231	6,600	0.15

LOT AREA TABLE

LOT NO.	LOT AREA SQUARE FEET	LOT AREA ACRES
LOT 232	6,600	0.15
LOT 233	6,488	0.15
LOT 234	6,488	0.15
LOT 235	6,600	0.15
LOT 236	6,600	0.15
LOT 237	6,600	0.15
LOT 238	6,600	0.15
LOT 239	6,600	0.15
LOT 240	6,600	0.15
LOT 241	6,600	0.15
LOT 242	6,600	0.15
LOT 243	6,600	0.15
LOT 244	6,488	0.15
LOT 245	6,488	0.15
LOT 246	6,600	0.15
LOT 247	6,600	0.15
LOT 248	6,600	0.15
LOT 249	6,600	0.15
LOT 250	6,600	0.15
LOT 251	6,600	0.15
LOT 252	6,600	0.15
LOT 253	6,600	0.15
LOT 254	6,600	0.15
LOT 255	6,488	0.15
LOT 256	6,600	0.15
LOT 257	6,600	0.15
LOT 258	6,600	0.15
LOT 259	8,502	0.20
LOT 260	11,605	0.27
LOT 261	9,003	0.21
LOT 262	6,599	0.15
LOT 263	6,710	0.15
LOT 264	6,710	0.15
LOT 265	6,710	0.15
LOT 266	6,468	0.15
LOT 267	6,000	0.14
LOT 268	6,000	0.14
LOT 269	6,000	0.14
LOT 270	6,000	0.14
LOT 271	6,000	0.14
LOT 272	6,000	0.14
LOT 273	6,000	0.14
LOT 274	6,994	0.16
LOT 275	15,050	0.35
LOT 276	15,451	0.35
LOT 277	7,130	0.16
LOT 278	7,127	0.16
LOT 279	7,087	0.16
LOT 280	7,048	0.16
LOT 281	7,008	0.16

LOT AREA TABLE

LOT NO.	LOT AREA SQUARE FEET	LOT AREA ACRES
LOT 282	6,968	0.16
LOT 283	6,929	0.16
LOT 284	6,889	0.16
LOT 285	6,850	0.16
LOT 286	6,810	0.16
LOT 287	6,771	0.16
LOT 288	6,715	0.15
LOT 289	6,589	0.15
LOT 290	5,950	0.14
LOT 291	6,000	0.14
LOT 292	6,000	0.14
LOT 293	6,000	0.14
LOT 294	6,000	0.14
LOT 295	6,000	0.14
LOT 296	6,000	0.14
LOT 297	6,000	0.14
LOT 298	6,000	0.14
LOT 299	6,000	0.14
LOT 300	6,000	0.14
LOT 301	5,888	0.14
LOT 302	5,888	0.14
LOT 303	6,000	0.14
LOT 304	6,000	0.14
LOT 305	6,000	0.14
LOT 306	6,000	0.14
LOT 307	6,000	0.14
LOT 308	6,000	0.14
LOT 309	6,000	0.14
LOT 310	6,000	0.14
LOT 311	6,000	0.14
LOT 312	6,000	0.14
LOT 313	5,950	0.14
LOT 314	6,488	0.15
LOT 315	6,000	0.14
LOT 316	6,000	0.14
LOT 317	6,000	0.14
LOT 318	6,000	0.14
LOT 319	6,000	0.14
LOT 320	6,000	0.14
LOT 321	6,000	0.14
LOT 322	6,000	0.14
LOT 323	6,000	0.14
LOT 324	6,000	0.14
LOT 325	5,888	0.14

AREA TABLE

NAME	AREA SQUARE FEET	AREA ACRES
R.O.W.	265,423	6.09
LOTS	938,430	21.54
TRACT S	147,647	3.41
TOTAL	1,351,500	31.03

TRACT AREA TABLE

TRACT NO.	TRACT AREA SQUARE FEET	TRACT AREA ACRES	USE
TRACT R	2,000	0.05	OPEN SPACE AND LANDSCAPE
TRACT S	2,000	0.05	OPEN SPACE AND LANDSCAPE
TRACT T	2,000	0.05	OPEN SPACE AND LANDSCAPE
TRACT U	2,000	0.05	OPEN SPACE AND LANDSCAPE
TRACT V	125,734	2.89	OPEN SPACE, LANDSCAPE, ELECTRIC EASEMENT, AND IRRIGATION
TRACT W	2,000	0.05	OPEN SPACE AND LANDSCAPE
TRACT X	3,075	0.07	OPEN SPACE AND LANDSCAPE
TRACT Y	8,838	0.20	OPEN SPACE AND LANDSCAPE

RIGHT-OF-WAY AREA TABLE

STREET NAME	AREA SQUARE FEET	AREA ACRES
254TH DR.	43,852	1.01
254TH GLEN	43,852	1.01
254TH LANE	7,525	0.17
BOWKER ST.	32,500	0.75
FRAKTUR RD.	38,667	0.89
GRAHAM TR.	32,500	0.75
LA SALLE ST.	29,537	0.68
SUNLAND AVE.	36,989	0.85

LINE TABLE

LINE	BEARING	DISTANCE
L1	S00°13'30"W	42.21'
L2	S45°13'30"W	35.36'
L3	N89°46'30"W	44.24'
L4	N85°50'44"W	43.76'
L5	N82°18'47"W	43.76'
L6	N78°46'51"W	43.76'
L7	N75°14'55"W	43.76'
L8	N71°42'58"W	43.76'
L9	N68°11'02"W	43.76'
L10	N64°39'06"W	43.76'
L11	N61°09'13"W	44.12'
L12	N60°20'59"W	5.45'
L13	S29°39'01"W	50.00'
L14	S72°26'52"W	9.84'
L15	S24°28'04"W	20.14'
L16	S60°20'59"E	43.20'
L17	N46°35'32"E	41.10'
L18	S77°40'39"E	50.58'
L19	S80°35'25"E	50.58'
L20	S83°30'12"E	50.58'
L21	S86°24'58"E	50.58'
L22	S00°13'30"W	25.00'

LINE TABLE

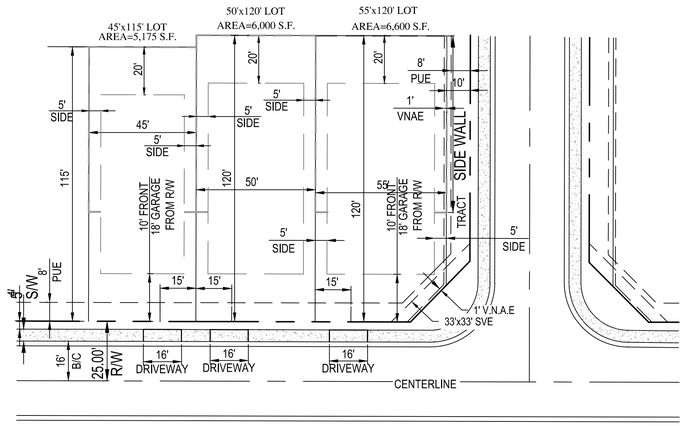
LINE	BEARING	DISTANCE
L23	N45°13'30"E	42.43'
L24	S89°46'30"E	60.00'
L25	S44°46'30"E	42.43'
L26	N89°46'30"W	48.69'
L27	S44°46'30"E	8.93'
L28	N45°13'30"E	35.36'
L29	S44°46'30"E	35.36'
L30	N45°13'30"E	8.93'
L31	N89°46'30"W	48.69'
L32	N45°13'30"E	35.36'
L33	S44°46'30"E	35.36'
L34	N45°13'30"E	35.36'
L35	S44°46'30"E	35.36'
L36	S45°13'30"W	35.36'
L37	N44°46'30"W	35.36'
L38	N45°13'30"E	35.36'
L39	S44°46'30"E	35.36'
L40	S45°13'30"W	35.36'
L41	S44°46'30"E	35.36'
L42	N45°13'30"E	35.36'
L43	S44°46'30"E	35.36'

EASEMENT LINE TABLE

LINE	BEARING	DISTANCE
EL1	N87°23'45"W	31.62'

CURVE TABLE

CURVE	DELTA	RADIUS	ARC	CHORD BEARING	CHORD
C1	1°54'08"	875.00'	29.05'	N88°49'26"W	29.05
C2	17°20'29"	55.00'	16.65'	S8°26'45"E	16.58
C3	68°08'28"	55.00'	65.41'	N16°57'15"E	61.62
C4	4°30'44"	2535.00'	199.64'	N88°35'23"E	199.59
C5	3°53'29"	2465.00'	167.42'	S88°16'45"W	167.39
C6	17°20'29"	55.00'	16.65'	N81°06'15"W	16.58
C7	56°32'30"	55.00'	54.28'	N79°17'44"E	52.10
C8	27°31'23"	875.00'	420.32'	N74°06'40"W	416.29
C9	29°25'31"	825.00'	423.70'	N75°03'44"W	419.05
C10	29°25'31"	850.00'	436.53'	N75°03'44"W	431.75
C11	17°20'29"	55.00'	16.65'	S8°53'45"W	16.58
C12	17°20'29"	55.00'	16.65'	S81°33'15"W	16.58
C13	124°40'58"	55.00'	119.69'	S44°46'30"E	97.43
C14	17°20'29"	55.00'	16.65'	N8°53'45"E	16.58
C15	17°20'29"	55.00'	16.65'	N8°26'45"W	16.58
C16	124°40'58"	55.00'	119.69'	S45°13'30"W	97.43
C17	17°20'29"	55.00'	16.65'	S81°06'15"E	16.58
C18	124°40'58"	55.00'	119.69'	N44°46'30"W	97.43
C19	17°20'29"	55.00'	16.65'	N81°33'15"E	16.58



TYPICAL LOT DETAIL
N.T.S.

N

WOOD PATEL

Wood, Patel & Associates, Inc.

Civil Engineering
Water Resources
Land Survey
Construction Management

602.335.8500

www.woodpatel.com

FINAL PLAT

COPPER FALLS PARCEL 2
BUCKEYE, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
48932
GABRIEL S. RIOS
12-31-23
Date Signed
ARIZONA, U.S.A.

EXPIRES 12-31-23

CHECKED BY GSR/BJD
CAD TECHNICIAN JKP/MJS
SCALE N.T.S.
DATE 7/12/2021
JOB NUMBER WP# 184796.11
SHEET 6 OF 6

PLZS-20-00074

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DOUGLAS A. DUCEY
Governor

THOMAS BUSCHATZKE
Director

ARIZONA DEPARTMENT of WATER RESOURCES
1110 West Washington Street, Suite 310
Phoenix, Arizona 85007
602.771.8500
azwater.gov

Via Electronic and Certified Mail

January 15, 2020

Terry Klinger
TGV Investments, LLC,
2241 E. Colter Street,
Phoenix, AZ 85016

Re: Certificate of Assured Water Supply
Copper Falls
DWR File No. 31-402043.0002

Dear Mr. Klinger:

The Arizona Department of Water Resources (Department) has determined that the criteria for an Assured Water Supply pursuant to A.R.S. § 45-576 and A.A.C. R12-15-701 *et seq.* have been met, and therefore the Director has decided to issue Certificate of Assured Water Supply No. 31-402043.0002, attached.

The City of Buckeye will provide water to the subdivision. The source of supply will be groundwater. The annual estimated water demand of the subdivision is 345.03 acre-feet per year for 639 lots, and the groundwater allowance for the subdivision for the 100-year period is 690.06 acre-feet. Pursuant to A.R.S. § 45-578(F), the total projected average annual replenishment obligation at build-out for each plat under the Certificate is 338.13 acre-feet per year.

The Department suggests you record your Certificate of Assured Water Supply in the appropriate county recorder's office. This will provide you with a permanent public record of the Certificate. This determination is applicable only to the persons or entities specified on the Certificate and for the plat reviewed by the Department, including non-material plat changes pursuant to A.A.C. R12-15-708.

Pursuant to A.R.S. § 41-1092.03, the Director's determination and decision to issue the Certificate is an appealable agency action. You are entitled to appeal this action. If you wish to appeal this action, you must file a written appeal within thirty (30) days from receipt of this letter. A summary of the appeal process and an appeal form are attached, should you elect to pursue this option.

Sincerely,

David L. McKay
Manager, AAWS & Recharge Permitting

DLM/evs

CC: Via Electronic Mail:

CAGRD
Arizona Department of Real Estate
Arizona Department of Environmental Quality
Arizona State Land Department

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
CERTIFICATE OF ASSURED WATER SUPPLY

This is to certify that

TGV Investments, LLC, an Arizona limited liability company, Owner,

has met the requirements of A.R.S. §§ 45-576 and A.A.C.R12-15-701 et. seq., and

By powers vested in the Director of the Arizona Department of Water Resources by the State of Arizona, and subject to the conditions contained in A.A.C. R12-15-701 et seq.,

Is issued this Certificate of Assured Water Supply for

Copper Falls
Township 1 North, Range 3 West, Section 30
GSRB&M Maricopa County, PHOENIX AMA

The referenced subdivision consists of **639 lots** as described in the preliminary plat on file with the Department, and has an estimated ~~water demand of~~ **345.03 acre-feet per year.** The subdivision will be served **groundwater** by **City of Buckeye.**

This Certificate is invalid as to any entity not named above.
This Certificate may be assigned pursuant to A.A.C. R12-15-705.

Certificate Number: 31-402043.0002
Original Issue Date: October 2, 2006

ARIZONA DEPARTMENT OF WATER RESOURCES

David L. Mick
Program Manager

01/15/2020
Date

TYPE A CERTIFICATE

ARIZONA DEPARTMENT OF WATER RESOURCES

NOTICE OF RIGHT TO APPEAL AGENCY ACTION

I. Right to Request Hearing

You have the right to request a hearing on the agency action described in the enclosed letter. To request a hearing, you must file a notice of appeal with the Docket Supervisor, Arizona Department of Water Resources, 1110 W. Washington St., Suite 310, Phoenix, Arizona 85007-2952 within thirty (30) days from the date of your receipt of this letter. A Notice of Appeal form is enclosed. Pursuant to A.R.S. § 41-1092.03, the grounds for appeal by a party who will be adversely affected by the agency action and who exercised a right to comment on the action provided by law or rule is limited to the issues raised in the party's comments.

If you file a timely notice of appeal, a hearing will be scheduled and you will be given written notice of the time and place for the hearing at least thirty (30) days before the hearing date. The date scheduled for the hearing may be advanced or delayed on the agreement of the Department and the parties to the action or on a showing of good cause. **If no party files a notice of appeal within thirty days from the date of receipt of the enclosed letter, the agency action described in the letter will become final and will not be subject to judicial review.**

II. Right to Request Informal Settlement Conference

If you file a timely notice of appeal as described above, you will have the right to request an informal settlement conference. A request for an informal settlement conference must be in writing and must be filed with the Docket Supervisor, Arizona Department of Water Resources, 1110 W. Washington St., Suite 310, Phoenix, Arizona 85007-2952 not later than twenty (20) days before the hearing date. The enclosed Notice of Appeal form includes a place for you to request an informal settlement conference. If you file a timely request for an informal settlement conference, the Department will give you written notice of the time and place for the settlement conference. An informal settlement conference must be held within fifteen (15) days after the request is filed.

If an informal settlement conference is held, a person with the authority to act on behalf of the Department will represent the Department at the conference. The parties participating in the settlement conference will waive their right to object to the participation of the Department's representative in the final administrative decision. Statements, either written or oral, made by the appellant at the conference, including a written document, created or expressed solely for the purpose of settlement negotiations, are inadmissible in any subsequent administrative hearing.

III. Agency Contact Person

If you have any questions regarding the appeals process, or the process for requesting an informal settlement conference, please contact the Docket Supervisor at (602) 771-8472.

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 6.AB. First Amendment to the Groundwater Savings Facility Storage Agreement between the City of Buckeye and Tonopah Irrigation District.
DATE PREPARED: 08/12/21	**DISTRICT NO.:** All
STAFF LIAISON: Ron Whitler, Water Resources Hydrologist, rwhitler@buckeyeaz.gov, (623) 349-6122	
DEPARTMENT: Water Resources	**AGENDA ITEM TYPE:** Consent Agenda Items / New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council) Council to take action on Resolution No. 57-21 approving the First Amendment to Groundwater Savings Facility Storage Agreement between the City (formerly Town) of Buckeye and Tonopah Irrigation District; and authorizing the Mayor to execute and deliver said Amendment.

RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

SUMMARY

PROJECT DESCRIPTION:
Buckeye and Tonopah entered into a Groundwater Savings Facility Storage Agreement on June 19, 2012. Buckeye and Tonopah now desire to amend the Agreement to (i) include a provision for the storage of Central Arizona Project non-Indian agricultural priority water (NIA water), in addition to other types of CAP water such as Municipal and Industrial CAP water, and Excess CAP water, (ii) allow for termination of the Agreement if any of the contracts for delivery of CAP water are terminated, and (iii) update the contact information for Buckeye and Tonopah.

The Agreement gives Buckeye the option to store CAP Water at Tonopah's Groundwater Savings Facility in calendar year 2022 and future years. The initial term of the Agreement was for five calendar years. After five years the Agreement automatically renews from year to year unless either party gives written notice to terminate it. The Agreement gives Buckeye the option to store CAP Water in return for annual storage and recovery credits. If Buckeye stores CAP water which exceeds its annual groundwater pumping, Buckeye can receive long-term storage credits (LTSCs).

BENEFITS:

Buckeye can store CAP Water at Tonopah's Groundwater Savings Facility to reduce the replenishment taxes paid by Buckeye's customers and Buckeye for groundwater pumped and delivered to Central Arizona Groundwater Replenishment District (CAGRD) Member Lands located within Buckeye's water service area. Tonopah will also pay Buckeye a contribution for the water stored. This payment amount, or Tonopah's contribution to Buckeye, is based on various factors including the cost Tonopah would otherwise pay to pump groundwater. These factors change from year to year; therefore, under the Agreement, Tonopah will determine and notify Buckeye by June 15 of each year the amount of Tonopah's contribution to be paid to Buckeye for the following calendar year. Tonopah estimates that it will pay Buckeye around $26 per acre foot for water stored in 2022. Buckeye estimates it could

potentially store up to 2,786 acre-feet of NIA water during calendar year 2022. Based on Tonopah's estimated contribution of $26 per acre-foot, Buckeye would be entitled to receive from Tonopah around $72,436.00 less the amount for water losses from storage.

FUTURE ACTION:

Prior to October 1 of 2022 and June 1 of subsequent years Buckeye decide whether or not to store all or a portion of the Buckeye's CAP Water at Tonopah's Groundwater Savings Facility.

FINANCIAL IMPACT STATEMENT:

No currently proposed fiscal year costs. Tonopah will pay Buckeye a contribution of around $26.00 per acre-foot for each acre-foot of water stored. Buckeye estimates it could potentially store 2,786 acre-feet of NIA water water during calendar year 2022. Based on Tonopah's estimated contribution of $26 per acre-foot, Buckeye would be entitled to receive from Tonopah around $72,436.00 less the amount for water losses from evaporation.

CURRENT FISCAL YEAR TOTAL COST:
No currently proposed fiscal year costs. Tonopah will pay the City a contribution of around $26.00 per acre-foot for each acre-foot of water stored. Based on Tonopah's estimated contribution of $26 per acre-foot, Buckeye would be entitled to receive from Tonopah around $72,436.00 less the amount for water losses from evaporation.

BUDGETED:
Yes

FISCAL YEAR:
21-22

FUND/DEPARTMENT:
N/A

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
RES 57-21 Groundwater Savings Facility Storage Agreement with Tonopah Irrigation District.pdf
Groundwater Savings Facility Storage Amendment with Tonopah Irrigation District.pdf

RESOLUTION NO. 57-21

A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF BUCKEYE, ARIZONA, APPROVING THE FIRST AMENDMENT TO GROUNDWATER SAVINGS FACILITY STORAGE AGREEMENT BETWEEN THE CITY (FORMERLY TOWN) OF BUCKEYE AND TONOPAH IRRIGATION DISTRICT; AND AUTHORIZING THE MAYOR TO EXECUTE AND DELIVER SAID AMENDMENT.

WHEREAS, the City of Buckeye, an Arizona municipal corporation ("Buckeye") and Tonopah Irrigation District, a municipal corporation and political subdivision of the State of Arizona ("Tonopah") (collectively, the "Parties") entered into the Groundwater Savings Facility Storage Agreement (the "Agreement") on June 19, 2012, to provide for the storage of Central Arizona Project ("CAP") water by Buckeye at the Groundwater Savings Facility operated by Tonopah; and

WHEREAS, the parties desire to amend the Agreement to (i) include a provision for the storage of CAP non-Indian agricultural priority water pursuant to the terms and conditions of the Agreement, and (ii) allow for termination of the Agreement if any of the contracts for delivery of CAP water are terminated, and (iii) update the contact information for the Parties.

BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF BUCKEYE, ARIZONA, as follows:

Section 1. The First Amendment to the Agreement to, among other things, (i) include a provision for the storage of CAP non-Indian agricultural priority water, and (ii) allow for termination of the Agreement pursuant to the conditions set forth in the Agreement, is hereby approved in substantially the form and substance on file with the City Clerk and incorporated herein by reference.

Section 2. The Mayor, the City Manager, the City Clerk and the City Attorney are hereby authorized and directed to take all steps necessary to cause the execution and delivery of the Amendment and to take all steps necessary to carry out the purpose and intent of this Resolution.

PASSED AND ADOPTED by the Mayor and City Council of the City of Buckeye, Arizona, this 17th day of August, 2021.

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda J. Aja, City Clerk

APPROVED AS TO FORM:

_____
Shiela B. Schmidt, City Attorney

SBS:ddh 4193045.1 7/30/2021

FIRST AMENDMENT
TO
GROUNDWATER SAVINGS FACILITY STORAGE AGREEMENT
BETWEEN
THE CITY (FORMERLY TOWN) OF BUCKEYE
AND
TONOPAH IRRIGATION DISTRICT

THIS FIRST AMENDMENT TO GROUNDWATER SAVINGS FACILITY STORAGE AGREEMENT (this "First Amendment") is entered into as of _____, 2021, between the City of Buckeye, an Arizona municipal corporation ("Buckeye") and Tonopah Irrigation District, a municipal corporation and political subdivision of the State of Arizona ("Tonopah"). Buckeye and Tonopah are sometimes collectively referred to in this Agreement as the "Parties" and each individually as a "Party."

RECITALS

A. The Parties entered into the Groundwater Savings Facility Storage Agreement (the "Agreement") on June 19, 2012.

B. The Parties now mutually desire to amend the Agreement to (i) include a provision for the storage of Central Arizona Project non-Indian agricultural priority water pursuant to the terms and conditions of the Agreement, and (ii) allow for termination of the Agreement if any of the contracts for delivery of CAP water are terminated, and (iii) update the contact information for the Parties.

AGREEMENT

NOW, THEREFORE, for and in consideration of the foregoing and other valuable consideration, the Parties hereby amend the Agreement as follows:

1. Recital D in the Agreement is hereby amended to read as follows:

D. The Parties recognize that this Agreement is subject to Agreements entered into by Buckeye under which Buckeye is entitled to receive the delivery of CAP water, including without limitation, the "Subcontract Among the United States, the Central Arizona Water Conservation District and the City of Buckeye Providing for Water Service", THE "SUBCONTRACT AMONG THE UNITED STATES, THE CENTRAL ARIZONA WATER CONSERVATION DISTRICT AND THE CITY OF BUCKEYE PROVIDING FOR WATER SERVICE FOR NON-INDIAN AGRICULTURAL PRIORITY WATER", and the "Agreement Between the Central Arizona Water Conservation District and the City of Buckeye Providing for the Delivery of Excess Central Arizona Project Water", and that in the event of any inconsistency between this Agreement and the agreements by which Buckeye receives delivery of CAP water, the provisions of the agreements of Buckeye under which it receives delivery of CAP water shall be controlling.

2. Section 10.2 of the Agreement is hereby amended to read as follows:

10.2 If ANY of the "Subcontract Among the United States, the Central Arizona Water Conservation District and the City of Buckeye Providing for Water Service", THE "SUBCONTRACT AMONG THE UNITED STATES, THE CENTRAL ARIZONA WATER CONSERVATION DISTRICT AND THE CITY OF BUCKEYE PROVIDING FOR WATER SERVICE FOR NON-INDIAN AGRICULTURAL PRIORITY WATER", or the "Agreement Between the Central Arizona Water Conservation District and the City of Buckeye Providing for the Delivery of Excess Central Arizona Project Water" is terminated, Buckeye may terminate this Agreement, which termination shall be effective fifteen (15) days after mailing written notice of termination to Tonopah, OR, UPON MUTUAL AGREEMENT OF THE PARTIES, AMEND THIS AGREEMENT TO ADDRESS THE TERMINATION OF ANY OF THE FOREGOING CAP WATER DELIVERY AGREEMENTS.;

3. The recitals of the Agreement, as amended by this First Amendment, are hereby incorporated into the Agreement.

4. The contact information for the Parties in Section 12 of the Agreement is hereby amended as follows:

If to Buckeye:

Water Resources Director
City of Buckeye
21749 West Yuma Road, Suite 107
Buckeye, AZ 85326

If to Tonopah:

Administrator
Tonopah Irrigation District
P.O. Box 1267
Mesa, AZ 85211-1267

IN WITNESS WHEREOF, the Parties have executed this First Amendment effective _____, 2021.

[SIGNATURES APPEAR ON FOLLOWING PAGE]

TONOPAH IRRIGATION DISTRICT, an
Arizona municipal corporation

By:_____
President

ATTEST:

_____
Secretary

Approved as to Form and Within the Power
and Authority Granted Under the Laws of the
State of Arizona to the Tonopah Irrigation District:

By:

_____
Attorney for Tonopah Irrigation District

CITY OF BUCKEYE, ARIZONA, an
Arizona municipal corporation

By:_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda J. Aja, City Clerk

Approved as to Form and Within the Power
and Authority Granted Under the Laws of
the State of Arizona to the City of Buckeye:

_____
Shiela B. Schmidt, City Attorney

TONOPAH IRRIGATION DISTRICT, an
Arizona municipal corporation

By: _____
K.C. Gingg, President

ATTEST:

_____
Scott Van Sant, Secretary

Approved as to Form and Within the Power
and Authority Granted Under the Laws of the
State of Arizona to the Tonopah Irrigation District:

_____
Jason Y. Moyes, Attorney for
Tonopah Irrigation District

CITY OF BUCKEYE, ARIZONA, an
Arizona municipal corporation

By: _____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda J. Aja, City Clerk

Approved as to Form and Within the Power
and Authority Granted Under the Laws of
the State of Arizona to the City of Buckeye:

_____
Shiela B. Schmidt, City Attorney

SBS:sbs 4176194.1 7/13/2021

TONOPAH IRRIGATION DISTRICT, an
Arizona municipal corporation

By:_____
K.C. Gingg, President

ATTEST:

_____
Scott Van Sant, Secretary

Approved as to Form and Within the Power
and Authority Granted Under the Laws of the
State of Arizona to the Tonopah Irrigation District:

_____
Jason Y. Moyes, Attorney for
Tonopah Irrigation District

CITY OF BUCKEYE, ARIZONA, an
Arizona municipal corporation

By:_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda J. Aja, City Clerk

Approved as to Form and Within the Power
and Authority Granted Under the Laws of
the State of Arizona to the City of Buckeye:

_____
Shicla B. Schmidt, City Attorney

SBS:sbs 4176194.1 7/13/2021

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 7.A. PH and Action Sundance Golf Club Series 7 Beer and Wine Bar Liquor License Application
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 5
STAFF LIAISON: Lucinda Aja, City Clerk, laja@buckeyeaz,gov, (623) 349-6911	
DEPARTMENT: City Clerk	**AGENDA ITEM TYPE:** Public Hearing / Non Consent - New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to hold a public hearing and take action on the request for a Series 7 Beer and Wine Bar Liquor License Application for Sundance Golf Club, located at 900 South Sundance Parkway in Buckeye.

RELEVANT GOALS:
GOAL 2: Enhanced Economic Well-Being and Vitality

ADDITIONAL RELEVANT GOALS:
GOAL 5: Responsive and Accountable Government and Effective Public Services

SUMMARY

PROJECT DESCRIPTION:
Sundance Golf Club is requesting approval for a Series 7 Beer and Wine Bar liquor license for their existing location due to a change of ownership. The current Series 7 liquor license is valid until May 31, 2022. The application was legally posted on July 22, 2021.

BENEFITS:
The City will continue to collect sales tax revenue from liquor sales.

FUTURE ACTION:
After approval, the application will be forwarded by the City Clerk's Office to the Arizona Department of Liquor License and Control for a final decision.

FINANCIAL IMPACT STATEMENT:
A Series 7 - Beer and Wine Bar liquor license is associated with a $900 fee; $500 processing and $400 annual. However, the establishment recently renewed their existing liquor license and will not be charged for the application.

BUDGETED:
No

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
Local Governing Body Report.pdf
Redacted Application.pdf

SundanceGolfClub GIS Map.pdf

State of Arizona
Department of Liquor Licenses and Control

Created 07/09/2021 @ 08:54:50 AM

Local Governing Body Report

LICENSE

Number:	07070259	Type:	007 BEER AND WINE BAR
Name:	SUNDANCE GOLF CLUB		
State:	Pending		
Issue Date:		Expiration Date:	02/28/2022
Original Issue Date:	06/15/1984		
Location:	900 S SUNDANCE PARKWAY BUCKEYE, AZ 85326 USA		
Mailing Address:	900 S SUNDANCE PARKWAY BUCKEYE, AZ 85326 USA		
Phone:	(623)328-0400		
Alt. Phone:			
Email:	ALOLMAUGH@SUNDANCEGOLFAZ.COM		

Currently, this license has pending applications.

AGENT

Name:	ANDREW MCLELLAN LOLMAUGH
Gender:	Male
Correspondence Address:	900 S SUNDANCE PARKWAY BUCKEYE, AZ 85326 USA
Phone:	(623)328-0400
Alt. Phone:	
Email:	LUCKY@DTLTRANS.COM

OWNER

Name:	DOSANJH PROPERTIES LLC		
Contact Name:	ANDREW MCLELLAN LOLMAUGH		
Type:	LIMITED LIABILITY COMPANY		
AZ CC File Number:	23136797	State of Incorporation:	AZ
Incorporation Date:	10/02/2020		
Correspondence Address:	900 S SUNDANCE PARKWAY BUCKEYE, AZ 85326 USA		
Phone:	(623)328-0400		
Alt. Phone:			
Email:	LUCKY@DTLTRANS.COM		

Officers / Stockholders

Name:	Title:	% Interest:
LAKHVIR SINGH DOSANJH	MEMEBER	100.00

DOSANJH PROPERTIES LLC - MEMEBER

Name:	LAKHVIR SINGH DOSANJH
Gender:	Male
Correspondence Address:	900 S SUNDANCE PARKWAY BUCKEYE, AZ 85326 USA
Phone:	(559)289-4424
Alt. Phone:	
Email:	LUCKY@DTLTRANS.COM

APPLICATION INFORMATION

Application Number: 154860
Application Type: Owner Transfer
Created Date: 07/09/2021

QUESTIONS & ANSWERS

007 Beer and Wine Bar

1) Are you applying for an Interim Permit (INP)?
   Yes
   A Document of type INTERIM PERMIT (INP) NOTARY PAGE is required.

4) Does the Business location address have a street address for a City or Town but is actually in the boundaries of another City, Town or Tribal Reservation?
   No

8) Did the Premises phone number change?
   No

10) Provide name, address, and distance of nearest school and church. (If less than one (1) mile note footage)
   FREEDOM ELEMENTARY SCHOOL
   22150 W SUNDANCE PARKWAY BUCKEYE AZ 85326
   2.7 MILES

   CHURCH OF JESUS CHRIST LATTER DAY SAINTS
   22487 W SUNDANCE PARKWAY BUCKEYE AZ 85326
   1 MILE

11) Are you one of the following? Please indicate below.
Property Tenant
Subtenant
Property Owner
Property Purchaser
Property Management Company
   OWNER

12) Is there a penalty if lease is not fulfilled?
   No

13) What is the total money borrowed for the business not including the lease?
Please list lenders/people owed money for the business.
   $1,050,000.00
   CAPITAL FUND I LLC
   14555 N SCOTTSDALE RD #200 SCOTTSDALE AZ 85254

14) Is there a drive through window on the premises?
   No

15) If there is a patio please indicate contiguous or non-contiguous within 30 feet.
   NON- CONTIGUOUS

16) Is your licensed premises now closed due to construction, renovation or redesign or rebuild?
   No

23) Total Price paid for Series 6 Bar, Series 7 Beer & Wine Bar or Series 9 Liquor Store (license only)
   $1.00

'21 JUL 9 Liq. Lic. AM 8:57

Arizona Department of Liquor Licenses and Control
800 W Washington 5th Floor
Phoenix, AZ 85007-2934
www.azliquor.gov
(602) 542-5141

QUESTIONNAIRE

A.R.S.§4-202, 4-210

Type or Print with Black Ink

The fees allowed by R19-1-102 will be charged for all dishonored checks. 005-036

ATTENTION APPLICANT: This is a legally binding document. Please type or print in **black ink**. An investigation of your background will be conducted. Incomplete applications will not be accepted. False or misleading answers may result in the denial or revocation of a license or permit and could result in criminal prosecution.

Attention local governments: Social security and birth date information is confidential. This information may be given to law enforcement agencies for background checks only.

QUESTIONNAIRE IS TO BE COMPLETED BY EACH CONTROLLING PERSON, AGENT AND MANAGER BEING DISCLOSED TO THE DEPARTMENT. EACH PERSON COMPLETING THIS FORM MUST SUBMIT A BLUE OR BLACK LINED FINGERPRINT CARD ALONG WITH A $22 FEE. FINGERPRINTS MUST BE DONE BY A LAW ENFORCEMENT AGENCY OR BONA FIDE FINGERPRINT SERVICE. FOR AN ADDITIONAL $13 FEE, FINGERPRINTS MAY BE DONE AT THE DEPARTMENT OF LIQUOR WHEN ACCOMPANIED BY A COMPLETED APPLICATION.

Liquor License#: 07070259 | 154860

1. **Check the Appropriate Box** →

☑ Controlling Person (AS) ☑ Agent	AP ☑ ~~Premises~~ Manager (complete all questions except #12)

2. Name: Lolmaugh (Last) Andrew (First) McLellan (Middle) Birth Date: [redacted] (NOT a public record)

3. Social Security #: [redacted] Driver License#: [redacted] State: Az

4. Place of birth: Evanston (City) Il (State) USA (COUNTRY (not county)) Height: 5' 9" Weight: 180 Eyes: BR Hair: BR

5. Name of current/most recent spouse: Lolmaugh (Last) Brandi (First) Nicole (Middle) Birth Date: [redacted] (NOT a public record)

6. Are you a bona fide resident of Arizona? ☑ Yes ☐ No If yes, what is your date of residency: 1979

7. Daytime telephone number: 623 328 0400 E-mail address: alolmaugh@sundancegolfaz.com

8. Business Name: Sundance Golf Club Business Phone: 623 / 328 / 0400

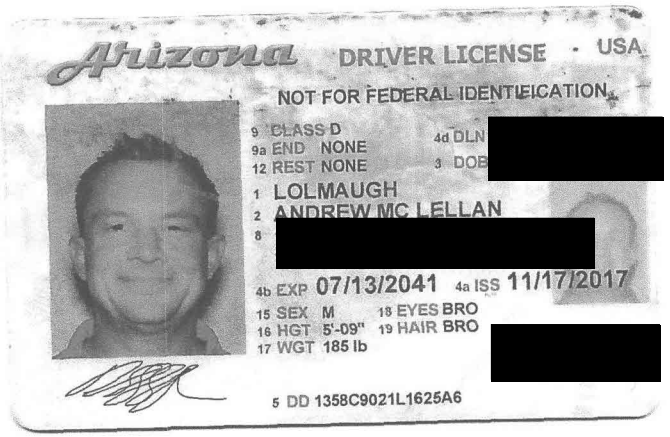
9. Business Location Address: 900 S. Sundance Pkwy (Street (do not use PO Box)) Buckeye (City) Az (State) Maricopa (County) 85326 (Zip)

10. List your employment or type of business during the past five (5) years. If unemployed, retired, or student, list residence address.

FROM Month/Year	TO Month/Year	DESCRIBE POSITION OR BUSINESS	EMPLOYERS NAME OR NAME OF BUSINESS (Street Address, City, State & Zip)
05/15/2021	CURRENT	COO Sundance Golf Club	Dosanjh Properties LLC 900 S. Sundance Pkwy Buckeye Az 85326
03/15/2008	05/14/2021	GM Sundance Golf Club	RLS Golf Courses LLC 900 S. Sundance Pkwy Buckeye Az 85326

(ATTACH ADDITIONAL SHEET IF NECESSARY)


CLASS: D-Operator
ENDORSEMENTS:
None
RESTRICTIONS:
None
Rev 02/14/2014
You Must Report a
Change of Address
Within 10 Days
[redacted]
17321AZ00264450203O1


Arizona DRIVER LICENSE USA
NOT FOR FEDERAL IDENTIFICATION
9 CLASS D
9a END NONE
12 REST NONE
4d DLN [redacted]
3 DOB
1 LOLMAUGH
2 ANDREW MC LELLAN
8 [redacted]
4b EXP 07/13/2041
4a ISS 11/17/2017
15 SEX M
16 HGT 5'-09"
17 WGT 185 lb
18 EYES BRO
19 HAIR BRO
[redacted]
5 DD 1358C9021L1625A6

Arizona Department of Liquor Licenses and Control
800 W Washington 5th Floor
Phoenix, AZ 85007-2934
www.azliquor.gov
(602) 542-5141

QUESTIONNAIRE

A.R.S.§4-202, 4-210
Type or Print with Black Ink

The fees allowed by R19-1-102 will be charged for all dishonored checks.

805-036

ATTENTION APPLICANT: This is a legally binding document. Please type or print in **black ink**. An investigation of your background will be conducted. Incomplete applications will not be accepted. False or misleading answers may result in the denial or revocation of a license or permit and could result in criminal prosecution.

Attention local governments: Social security and birth date information is confidential. This information may be given to law enforcement agencies for background checks only.

QUESTIONNAIRE IS TO BE COMPLETED BY EACH CONTROLLING PERSON, AGENT AND MANAGER BEING DISCLOSED TO THE DEPARTMENT. EACH PERSON COMPLETING THIS FORM MUST SUBMIT A BLUE OR BLACK LINED FINGERPRINT CARD ALONG WITH A $22 FEE. FINGERPRINTS MUST BE DONE BY A LAW ENFORCEMENT AGENCY OR BONA FIDE FINGERPRINT SERVICE. FOR AN ADDITIONAL $13 FEE, FINGERPRINTS MAY BE DONE AT THE DEPARTMENT OF LIQUOR WHEN ACCOMPANIED BY A COMPLETED APPLICATION.

Liquor License#: 07070259 | 154860

1. **Check the Appropriate Box** →

☑ Controlling Person ☐ Agent | ☐ Premises Manager (complete all questions except #12)

2. Name: Dosanjh (Last) Lakhvir (First) Singh (Middle) Birth Date: [redacted] (NOT a public record)

3. Social Security #: [redacted] Driver License#: [redacted] State: Az.

4. Place of birth: Jalandhar (City) Punjab (State) India (COUNTRY (not county)) Height: 5' 9" Weight: 220 Eyes: Bl Hair: Bl

5. Name of current/most recent spouse: Kaur (Last) Sukhpreet (First) (Middle) Birth Date: [redacted] (NOT a public record)

6. Are you a bona fide resident of Arizona? ☑ Yes ☐ No If yes, what is your date of residency: 07/23/2020

7. Daytime telephone number: 559-289-4424 E-mail address: lucky@dtltrans.com

8. Business Name: ~~Dosanjh Properties LLC~~ Sundance Golf Club (AP) Business Phone: 559 / 289 / 4424

9. Business Location Address: 900 S Sudnance Pkwy (Street (do not use PO Box)) Buckeye (City) Az (State) Maricopa (County) 85326 (Zip)

10. List your employment or type of business during the past five (5) years. If unemployed, retired, or student, list residence address.

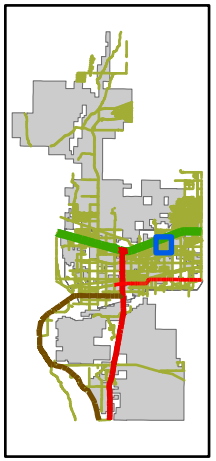
FROM Month/Year	TO Month/Year	DESCRIBE POSITION OR BUSINESS	EMPLOYERS NAME OR NAME OF BUSINESS (Street Address, City, State & Zip)
May 2000	CURRENT	Owner, Logistics	DTL transport Inc. 4375 N Golden State Blvd Fresno Ca 93722

(ATTACH ADDITIONAL SHEET IF NECESSARY)

City of Buckeye
Business Licensing

Series 7 – Beer and Wine Bar
Name: Sundance Golf Club
Address: 900 S Sundance Parkway.,
Buckeye, AZ, 85326
AZ License # 154860

- Sundance Golf Club
- Churches
- Schools
- Fire Stations
- Police Stations
- 300 ft. Radius
- 1/2 Mile
- 1 Mile



0.2 0.1 0 0.2 Miles

The data depicted hereon are for reference purposes only. The City of Buckeye does not warrant the accuracy or integrity of the information for any particular use.

BUCKEYE, AZ

1494

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 7.B. Public Hearing and Action - Ordinance 15-21 - Verrado Way and Roosevelt Street Rezone
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 6
STAFF LIAISON: Randy Proch, AICP, Senior Planner, rproch@buckeyeaz.gov, (623) 986-0701	
DEPARTMENT: Development Services	**AGENDA ITEM TYPE:** Public Hearing / Non Consent - New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to hold a public hearing and take action on Ordinance No. 15-21 amending the Zoning Map of the City of Buckeye on approximately 18.9 acres, located generally at the southeast corner of 215th Avenue and Roosevelt Street, from SF-43, Single-Family Rural Residential, to BP, Business Park District, for a property known as Verrado Way and Roosevelt Street.

RELEVANT GOALS:
GOAL 2: Enhanced Economic Well-Being and Vitality

SUMMARY

PROJECT DESCRIPTION:

Nicholas Maxwell, on behalf of CVL Consultants, is requesting a rezoning approval of approximately 18.9 acres located at the southeast corner of 215th Avenue and Roosevelt Street. The property is currently zoned Single-Family 43 (SF-43). The request is to rezone to Business Park (BP). The rezone will facilitate the construction of two flex-use industrial building. The proposed rezoning will support new business and employment opportunities within the Buckeye Gateway Activity Center. The site is mostly surrounded by undeveloped land to the north and west. Further north is Interstate 10. Several higher education facilities are located east and south of the proposed site.

BENEFITS:
Provide new business and employment opportunities

FUTURE ACTION:
N/A

FINANCIAL IMPACT STATEMENT:
N/A

CURRENT FISCAL YEAR TOTAL COST:
N/A

BUDGETED:
No

FISCAL YEAR:
N/A

FUND/DEPARTMENT:
N/A

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
PLZZ-21-00016 Verrado and Roosevelt Rezone Planning & Zoning Commission Packet.pdf
ORD 15-21 Rezone Verrado Way and Roosevelt Street with Exhibits.pdf

REZONE

Report to the Planning and Zoning Commission

CASE NUMBER:	**PLZZ-21-00016**
TITLE:	**Verrado Way & Roosevelt Street Rezone**
MEETING DATE:	**July 13, 2021**

Applicant/Owner:	Nicholas Maxwell, Coe & Van Loo Consultants, Inc.
Request:	A rezone from Single-Family 43 (SF-43) to Business Park District (BP) to facilitate the construction of a commercial business park
District	District 6
Location:	The southeast corner of 215th Avenue and Roosevelt Street
Site size:	20 acres
Density:	N/A
Public input:	One email received
Recommendation:	**Approve** with conditions

PROJECT DESCRIPTION

1. The applicant is requesting to rezone a parcel of land from Single-Family 43 (SF-43) to Business Park District (BP) to facilitate the construction of a commercial business park. The site will include tilt-up industrial flex buildings with screened recessed and above-grade docks. The proposed development will meet or exceed all minimum standards of the Buckeye Development Code and will construct required off-site improvements.

AREA CONTEXT

2. The subject property is located at the southeast corner of 215th Avenue and Roosevelt Street, Maricopa County APN 504-20-002C, as shown in Attachment 1. The property is rectangular in shape and located south of Interstate 10, and west of Verrado Way. The surrounding parcels are mostly vacant, with some educational uses to the south, as notated in Table 1 below.

Table 1: *Existing Land Use, General Plan Designation, and Zoning District*

	LAND USE	GENERAL PLAN	ZONING
Subject Property	**Vacant**	**Activity Center**	**Single-Family 43 (SF-43)**
North	Vacant	Activity Center	Regional Commercial (C-3)
South	Buckeye Union High School District Learning Center	Activity Center	Planned Residential (PR)
East	Vacant	Activity Center	Single-Family 43 (SF-43), Planned Residential (PR)
West	Vacant	Master Planned Community	Planned Community (PC)

PUBLIC PARTICIPATION

3. The applicant has advertised in accordance with Section 8 of the Development Code via mailed notice to those property owners within 300 feet of the subject site. The required notifications are further notated in Table 2 below.

4. In addition, due to the COVID-19 pandemic the neighborhood meeting was not required in accordance with Section 8.2.2. of the Buckeye Development Code and therefore not conducted in accordance with the City's emergency guidelines and policies.

5. The developer has provided the Citizen Participation Report, and is included as Attachment 5.

Table 2: *Public Notice*

Notification Element	Date
Notice of Application Mailing to Property Owners within 300 feet	12/28/2020
Virtual Neighborhood Meeting/Notice	Not required
Notice of Hearing Mailing to Property Owners within 300 feet	6/23/2021
Legal Notice – Newspaper	6/25/2021
Sign Posting	6/21/2021

BACKGROUND

6. 2016: Annexed and zoned Single-Family 43 (SF-43) District: Ord. 01-16; Approved 2/16/2016

ANALYSIS

General Plan

7. The subject property is located within an Activity Center, as shown in Attachment 2. Specifically, this site is located within the Buckeye Gateway Activity Center. This center is strategically located to capitalize on existing assets such as the West-MEC education center and a number of master planned communities.

Development Code

8. The subject property is proposing to rezone from Single-Family 43 (SF-43), as shown in Attachment 3, to Business Park District (BP), as shown in Attachment 4. The BP district is intended to allow for a mixture of light industrial, office, manufacturing, and limited retail uses in a business park, industrial park, or campus setting with high-quality site and building design.

9. The proposed Business Park District is in compliance with the General Plan designation and further refined as part of the Buckeye Gateway Activity Center. The proposed flex industrial contributes to the surrounding mix of uses and is ideally situated right off of Interstate 10 and Verrado Way.

Public Comments

10. One email of general traffic concern was received during the review of the Rezone request. This proposal was reviewed by our City Traffic Engineer and through the corresponding Site Plan review, conditions will be included to ensure the appropriate infrastructure improvements are included with the development of this site.

RECOMMENDATION

11. Staff recommends the Planning and Zoning Commission motion for **approval** with conditions a - b of **PLZZ-21-00016** for the following reasons:

    - Conformance with General Plan
    - Conformance with Development Code
    - No outstanding issues for reviewing departments (Engineering, Fire, Public Works, Community Services, Police, Water Resources, and Development Services).

    a. Development of the property shall be in general conformance to the Project Narrative Report referenced as "Buckeye Industrial" consisting of two (2) pages, received June 11, 2021, as shown in Attachment 6, except as modified by the following condition(s).
    b. The property owner/s and their successor waive any and all claims for diminution in value of the property with regard to any action taken by City of Buckeye as result of this approval.

ATTACHMENTS

1. Vicinity Map
2. General Plan Map
3. Existing Zoning Map
4. Proposed Zoning Map
5. Citizen Participation Report
6. Rezone Narrative
7. Legal Description
8. Public Comment

Prepared by:
Randy Proch, AICP, Senior Planner

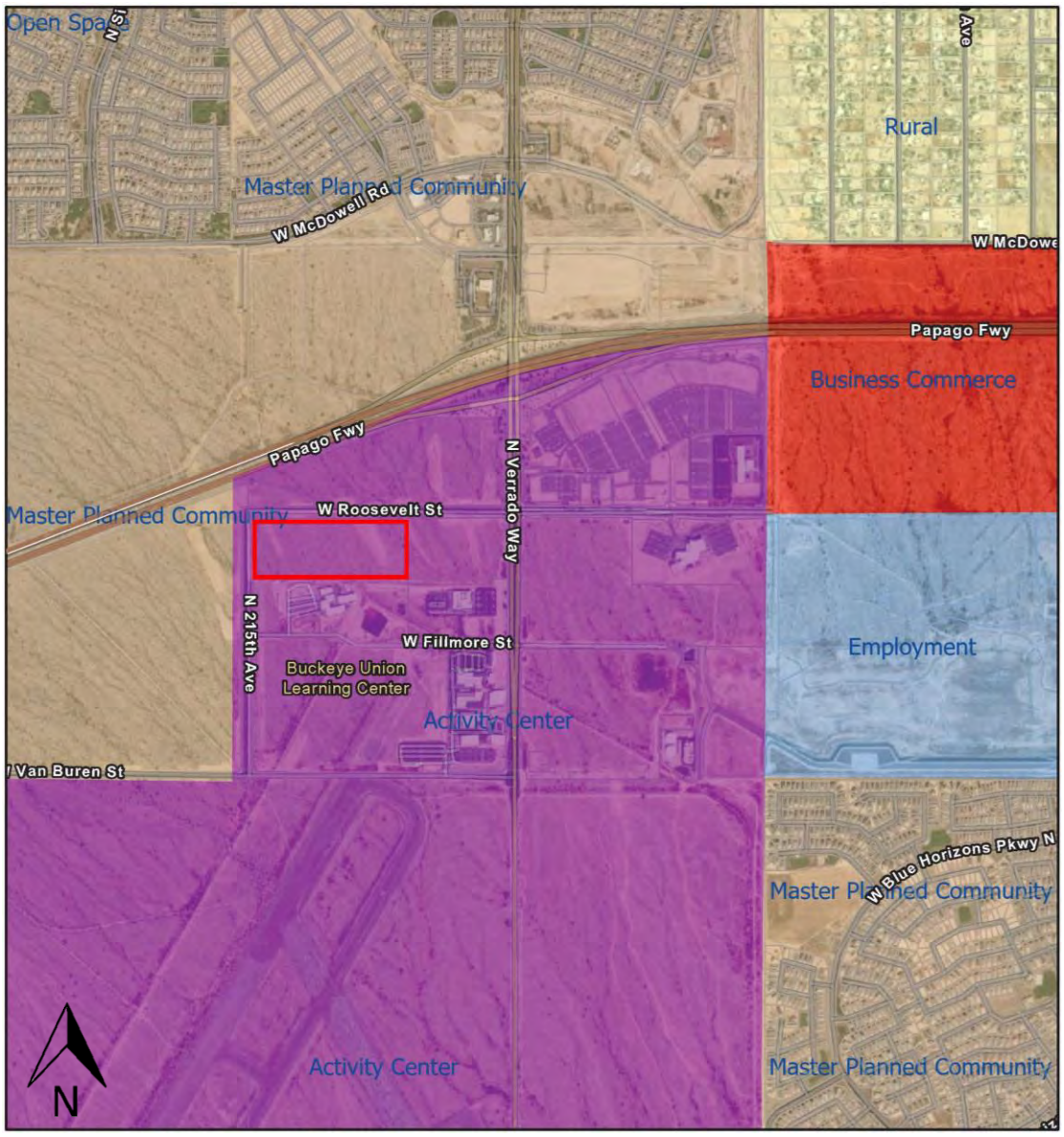
Reviewed by:
Terri Hogan, AICP, Deputy Director of Planning

Attachment 1: Vicinity Map



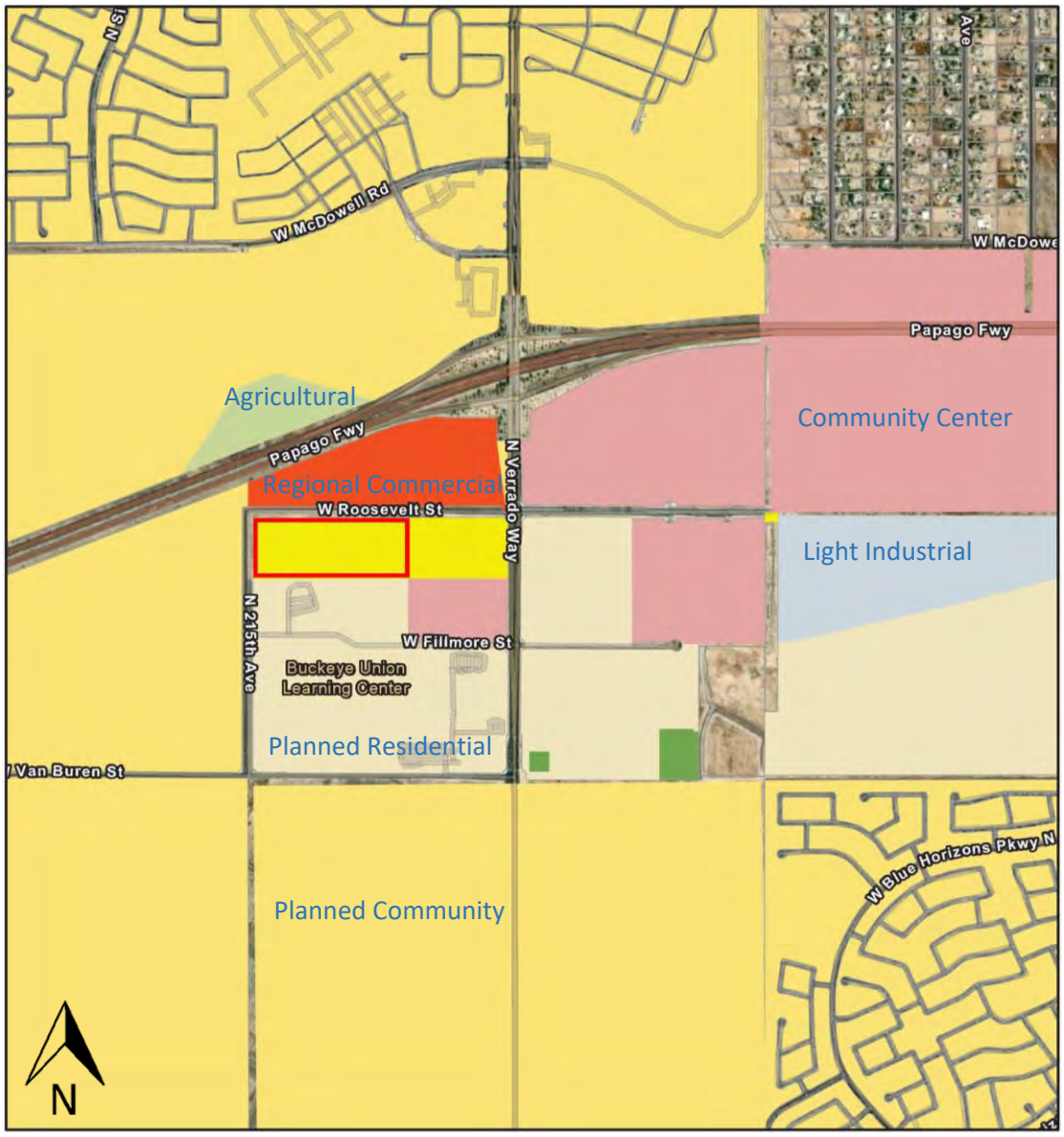
Subject Property

Attachment 2: General Plan Map



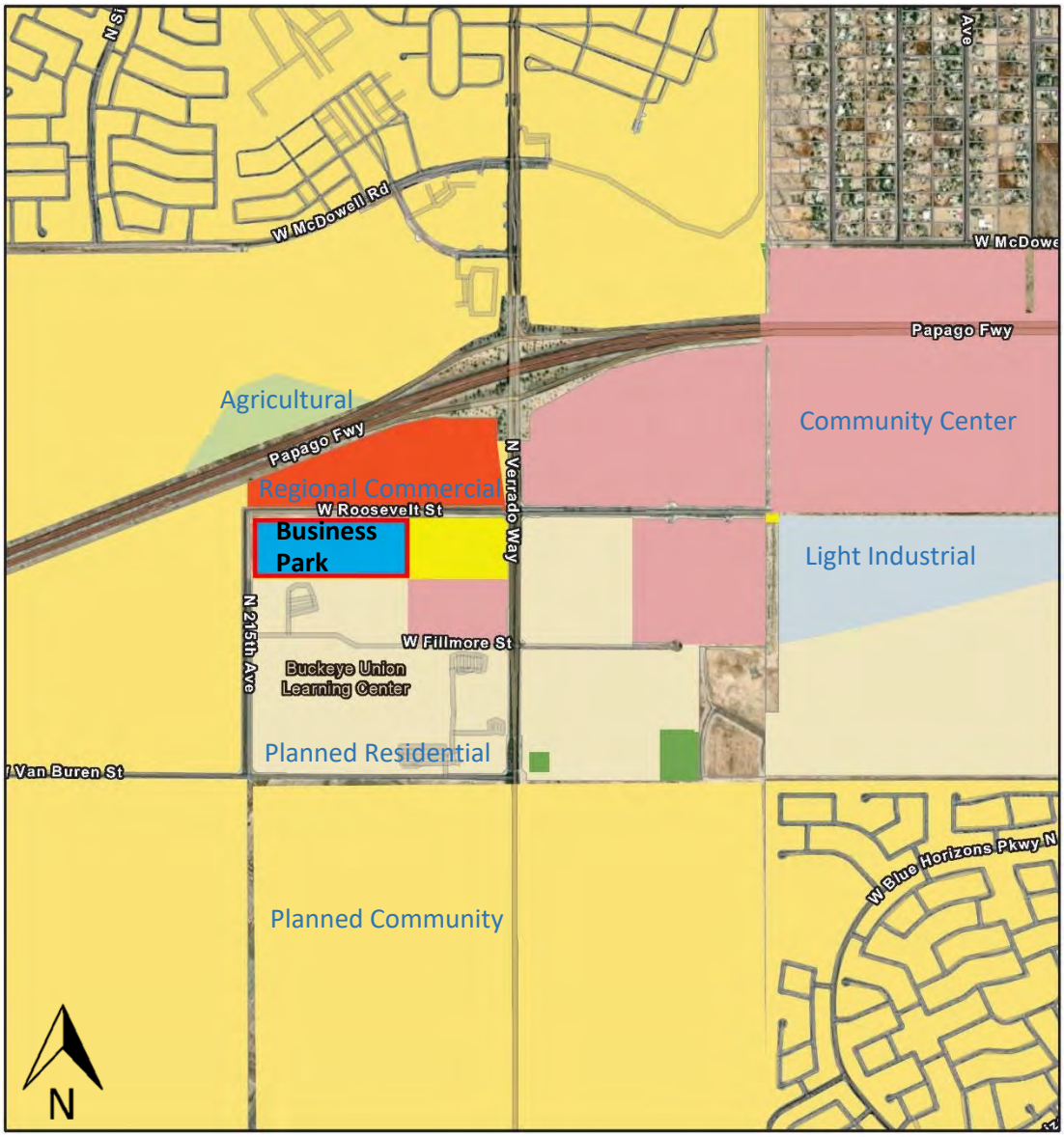
Subject Property

Attachment 3: Existing Zoning Map



Subject Property

Attachment 4: Proposed Zoning Map



Subject Property

June 24, 2021

215th Avenue & Roosevelt Industrial

City of Buckeye, Arizona

Citizen Participation Report

Case #: PLZZ-21-00016

CVL CONSULTANTS

4550 N 12th Street
Phoenix, AZ 85014
CVL Job No: 1-01-19415

Citizen Participation Report

for

215th Avenue & Roosevelt Industrial

City of Buckeye, AZ

Case #: PLZZ-21-00016

June 24, 2021

Owner

Geddes Capital Resources, LLC
3020 East Camelback Road STE 350
Phoenix, Arizona 85016
602-285-4937
mgeddes.com

Planning/Civil Engineering Consultant

Coe & Van Loo Consultants, Inc.
4550 North 12th Street
Phoenix, Arizona 85014-4291
Attn: Nick Maxwell
602-285-4937
nmaxwell@cvlci.com

Contents

1. Introduction 1
2. Project Summary 1
3. Schedule of Citizen Participation 1
4. Public Notification Techniques 2
5. Notification Map, Mailing List & Labels 2
6. Sign Posting 2
7. Neighborhood Meeting - Not Required 2
8. Response Procedure 3
9. Status Procedure 3
10. Conclusion 3

Exhibits

Regional Vicinity Map ..... Exhibit A
Preliminary Site Plan ..... Exhibit B
Notification Letter ..... Exhibit C
Public Notice ..... Exhibit D
Sign Posting ..... Exhibit E

1. Introduction

This Citizen Participation Report outlines the details of the process implemented by the applicant to involve the public in pursuit of a Rezoning application for the 215th Avenue & Roosevelt Industrial project filed under case PLZZ-21-00016, pursuant to of the City of Buckeye ("City") Development Code Section 8.2, "Common Development Review Procedures."

2. Project Summary

The 215th Avenue & Roosevelt Industrial project is undergoing a request for a zone change from SF-43 to BP on one land parcel totaling approximately 18.887 acres. The overall goal of this project is to develop a business park consisting of two (2) flex buildings with guest, employee, and visitor parking. The project is generally located at the southeast corner of 215th Avenue and Roosevelt Street in Buckeye, Arizona. (Exhibit A - Regional Vicinity Map). A copy of the preliminary site plan is provided for reference. (Exhibit B – Preliminary Site Plan).

3. Schedule of Citizen Participation

Notification	Date
Citizen Participation Plan Submitted	January 22, 2021
Notification Letter Mailed	June 18, 2021
Public Notice Published	June 25, 2021
Sign Posted	June 21, 2021
Neighborhood Meeting	Not Required*
Citizen Participation Report Submitted	June 23, 2021
Planning and Zoning Commission Hearing	July 13, 2021
City Council Hearing	August 17, 2021

*Due to the City's current COVID-19 protocol.

4. Public Notification Techniques

Public notification techniques have been determined by the "Common Development Review Procedures", outlined in Section 8.2 of the City's Development Code, which states that a written notice shall be mailed to all landowners within the target area and that a notice shall be published once in a newspaper of general circulation with the date, time, location and nature of the meeting. The City's Development Code also states that the applicant shall post the proposed site with a sign containing similar notification information.

The notification letter was mailed to all landowners within a 300' radius of the site (Exhibit C, Notification Letter) on June 18, 2021. Notice of the meeting was published in the Buckeye Star on June 25, 2021 (Exhibit D, Public Notice). A sign was posted on the site on June 21, 2021. Photos of the posted sign are provided as Exhibit E, Sign Posting.

5. Notification Map, Mailing List & Labels

As directed by City staff, the notification letter was mailed to all landowners within a 300' radius of the site. A map of the notification area, list of property owners that have been notified and the associated mailing labels are provided for reference. All property owners within the area of notification were sent a notification letter with the public hearing information a minimum of 15 days in advance of the scheduled dates. The notification area map and the property owner list meet all City ordinance requirements. Exhibits of the letter along with related material and all applicable affidavits certifying notification are provided.

6. Sign Posting

Notice of the meeting was published in the Buckeye Star on June 25, 2021. A sign was posted on the site on June 21, 2021. Photos of the posted sign are provided for reference. The notification sign and the newspaper notice publication were completed in compliance with City ordinances. Specific language for the sign and publication were determined with the cooperation of City staff prior to time of posting and publication. The sign and the newspaper notice were published a minimum of 15 days prior to the scheduled dates. Exhibits of the sign and the notice along with all applicable affidavits certifying notification are provided.

7. Neighborhood Meeting – Not Required

A neighborhood meeting was not held for this application per the City's current COVID-19 protocol.

8. Response Procedure

As stated in the initial Citizen Participation Plan document, should comments be received on this application, the applicant will meet with and work with any groups, interested parties, and/or individuals to discuss the proposed development and to work to mitigate any concerns. From these meetings and discussions, as well as any other comments provided by other interested parties and/or City of Buckeye, the related zoning request will be amended to the extent possible to address any comments/concerns that are made. No comments have been received to-date.

9. Status Procedure

The applicant recognizes that it is to our benefit to keep City staff apprised of the notification efforts that occur and any responses received by any interested party. The applicant has periodically updated City staff throughout the Citizen Participation process and will continue these coordination efforts through to ordinance adoption by the City Council. Updates will continue to be handled by e-mail, telephone, and in-person communications as needed.

10. Conclusion

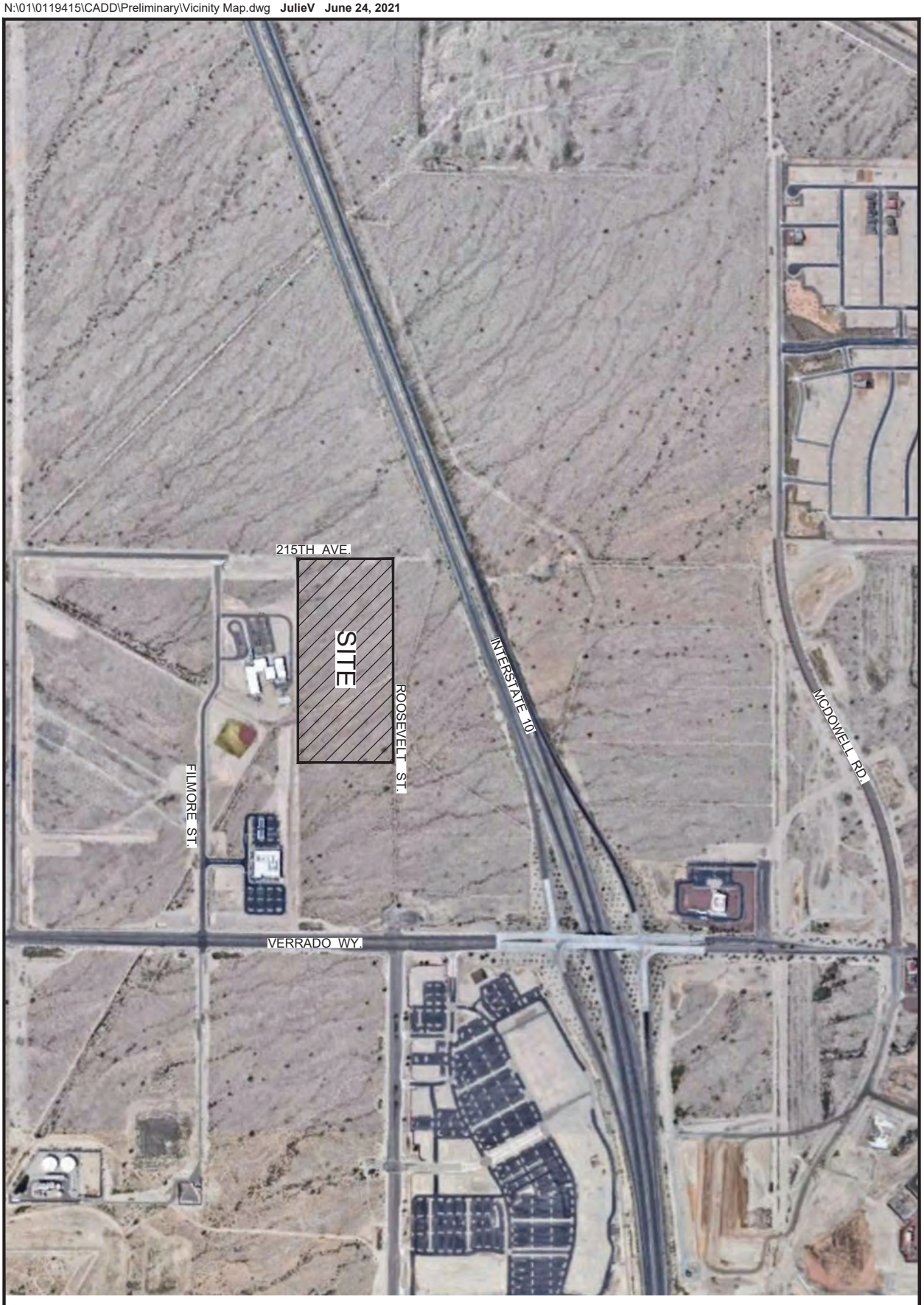
The 215th Avenue & Roosevelt Industrial project as proposed is very well suited for the project site and the surrounding area. The proposed zoning is consistent with the City's General Plan, bringing the site into conformance with the City's Specific Plan for the area. The project as proposed is not anticipated to meet with significant resistance by area residents, businesses, or land owners. Conversely, this project will add to the synergy of development already at work in the area, and will serve as a catalyst for the further development of surrounding parcels and within this part of the City of Buckeye.

This Citizen Participation Report has identified that all public notification procedures set forth by Section 8.2 of the City's Development Code, "Common Development Review Procedures," have been implemented for the 215th Avenue & Roosevelt Industrial project filed under case PLZZ-21-00016.

Exhibit A

Regional Vicinity Map

N:\01\0119415\CADD\Preliminary\Vicinity Map.dwg **JulieV** **June 24, 2021**



SCALE : NTS'

EXHIBIT

4550 North 12th Street
Phoenix, Arizona 85014
Phone 602-264-6831
http://www.cvlci.com

REGIONAL VICINITY MAP

215TH AVENUE & ROOSEVELT INDUSTRIAL

CVL CONSULTANTS CELEBRATING 60 YEARS

Exhibit B

Preliminary Site Plan

PROJECT DATA:

PROJECT LOCATION:	SEC 211TH AVE AND ROOSEVELT ST
OWNER:	GEDDES CAPITAL RESOURCES LLC
PARCEL:	APN 504-20-002C
PROPOSED NET LOT AREA:	813,968 S.F. (±18.68 ACRES)
ZONING:	SF-43

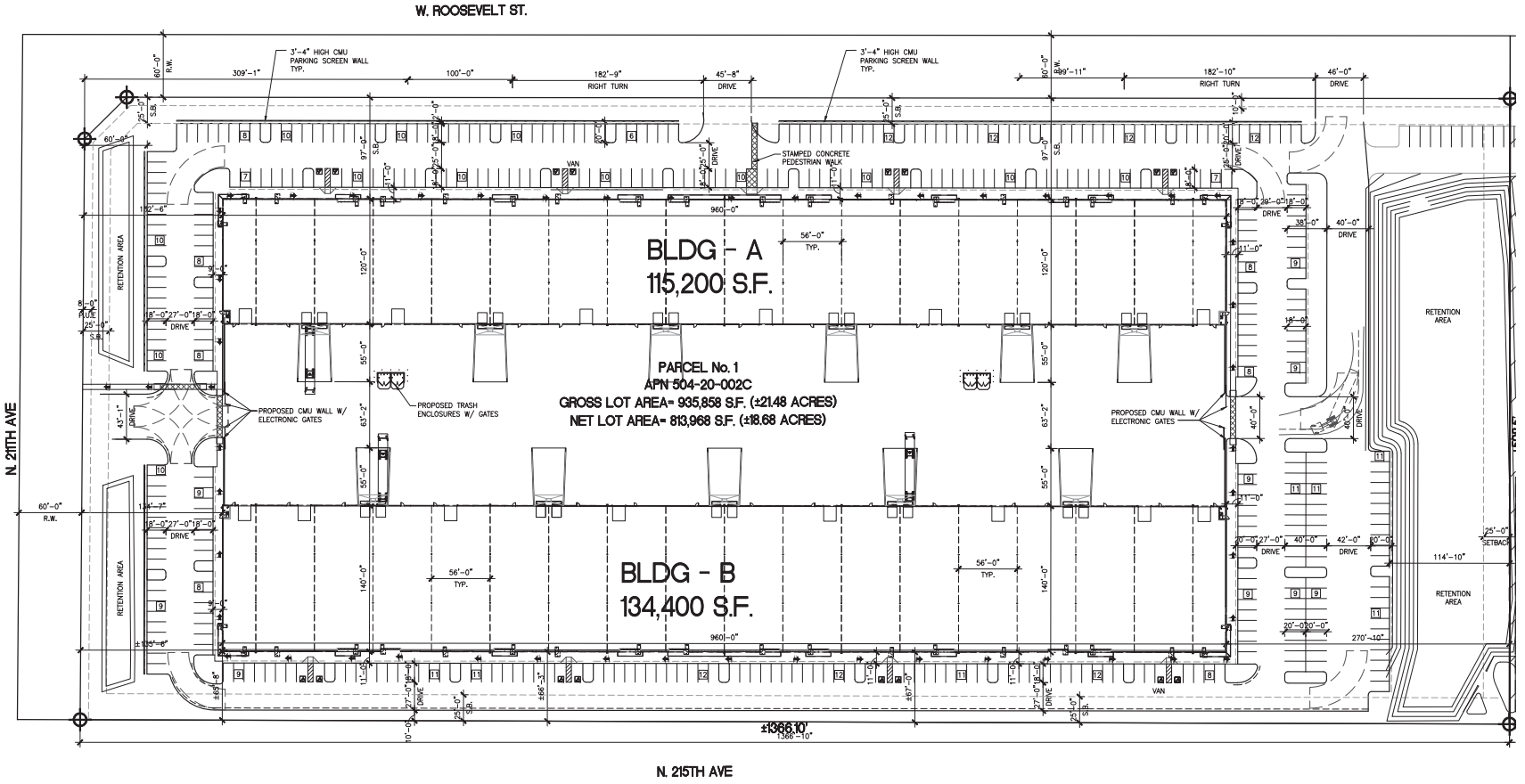
BUILDING AREA:

BUILDING-A	115,200 S.F.
BUILDING-B	134,400 S.F.
TOTAL BUILDING AREA	249,600 S.F.

PARKING CALCULATIONS:

249,600 S.F. (1/1,250 S.F.) = 213 P.S.

WAREHOUSE	249,600 / 1,250 = 200 P.S.
PARKING REQUIRED:	200 P.S.
PARKING PROVIDED:	535 P.S. (INCLUDING 16 ACCESSIBLE SPACES) (INCLUDING 2 VAN SPACES)



PRELIMINARY SITE PLAN
SCALE: 1" = 50'-0"

1"=50'-0"
50' 25' 0 50' 100'

ADG A1720

Andrews Design Group, Inc.

ARCHITECTURE PLANNING INTERIORS PROJECT MANAGEMENT

1095 W. RIO SALADO PKWY SUITE-203 TEMPE, ARIZONA 85281 (480) 894-3478 FAX: (480) 894-4013

BUSINESS PARK
211 TH AVE AND ROSEVELT ST.
BUCKEYE, ARIZONA

No:	DATE:	REVISIONS:
1		
2		
3		

SP2

DATE: 01/05/2021

1514

Exhibit C

Notification Letter

Affidavit of Mailing Notice

Case Number: PLZZ-21-00016

Project Name: 215th Ave & Roosevelt Industrial

Applicant Name: Nick Maxwell (CVL Consultants)

Location: Southeast Corner 215th Ave & Roosevelt St

In order to assist in providing adequate notice to interested parties and to meet Arizona State Statue, the applicant for public hearings in the City of Buckeye shall secure the names and addresses of all property owners within 300 feet of all property lines of the subject application property either through a title company or the Maricopa County Assessor's web site and shall send the public hearing notice to each said owner no less than fifteen (15) days prior to the public hearing date.

I confirm that I secured the names and addresses of all property owners within 300 feet of all property lines of the subject application property either through a title company or the Maricopa County Assessor's web site and did send the public hearing notice to each said owner no less than fifteen (15) days prior to the public hearing

See attached copies of all sent letters and address lists.

Applicant's / Representative's signature: Nicolas Maxwell

SUBSCRIBED AND SWORN before me this 23 day of June, 2021, by:

Notary Public

CHRISTINE NICODEMUS
Notary Public - Arizona
Maricopa County
My Commission Expires
10/15/2023
Commission # 342180

My Commission Expires:

10/15/23

CVL CONSULTANTS
CELEBRATING 60 YEARS
4550 North 12th Street | Phoenix, AZ 85014
602.264.6831

June 18, 2021

Subject: Notification for 215th Avenue & Roosevelt Industrial - Rezoning Case # PLZZ-21-00016
(±18.887 acres at the southeast corner of 215th Avenue & Roosevelt Street in Buckeye, AZ)

Dear Neighbor:

The purpose of this letter is to inform you that a Rezoning application has been filed with the City of Buckeye by CVL Consultants on behalf of Geddes Capital Resources, LLC. The application requests rezoning from Single-Family Rural Residential (SF-43) to Business Park (BP) for the ±18.887 acre site known as 215th Avenue & Roosevelt Industrial, generally located at the southeast corner of 215th Avenue and Roosevelt Street. The overall goal of this project is to develop a business park consisting of two (2) flex buildings with guest, employee, and visitor parking. Please refer to the attached vicinity map and preliminary site plan for an illustration of the proposed request.

According to the Maricopa County Assessors records, you are a property owner within 300 feet of the property under consideration. In order to inform you of the public hearings scheduled for this matter, this notice is being sent to you via first class mail. The hearing dates scheduled for this request are as follows:

- **Planning & Zoning Commission**
  July 13, 2021 at 6:00 pm
  530 East Monroe Avenue
  Buckeye, Arizona 85326
- **City Council**
  August 17, 2021 at 6:00 pm
  530 East Monroe Avenue
  Buckeye, Arizona 85326

If you wish to provide input on this matter, you may attend each hearing and/or submit a written comment. If you have any questions concerning this matter, please write, email, or call me at the contact information below. You may also contact Randy Proch with the City of Buckeye Planning & Zoning Division at (623) 986-0701 or rproch@buckeyeaz.gov.

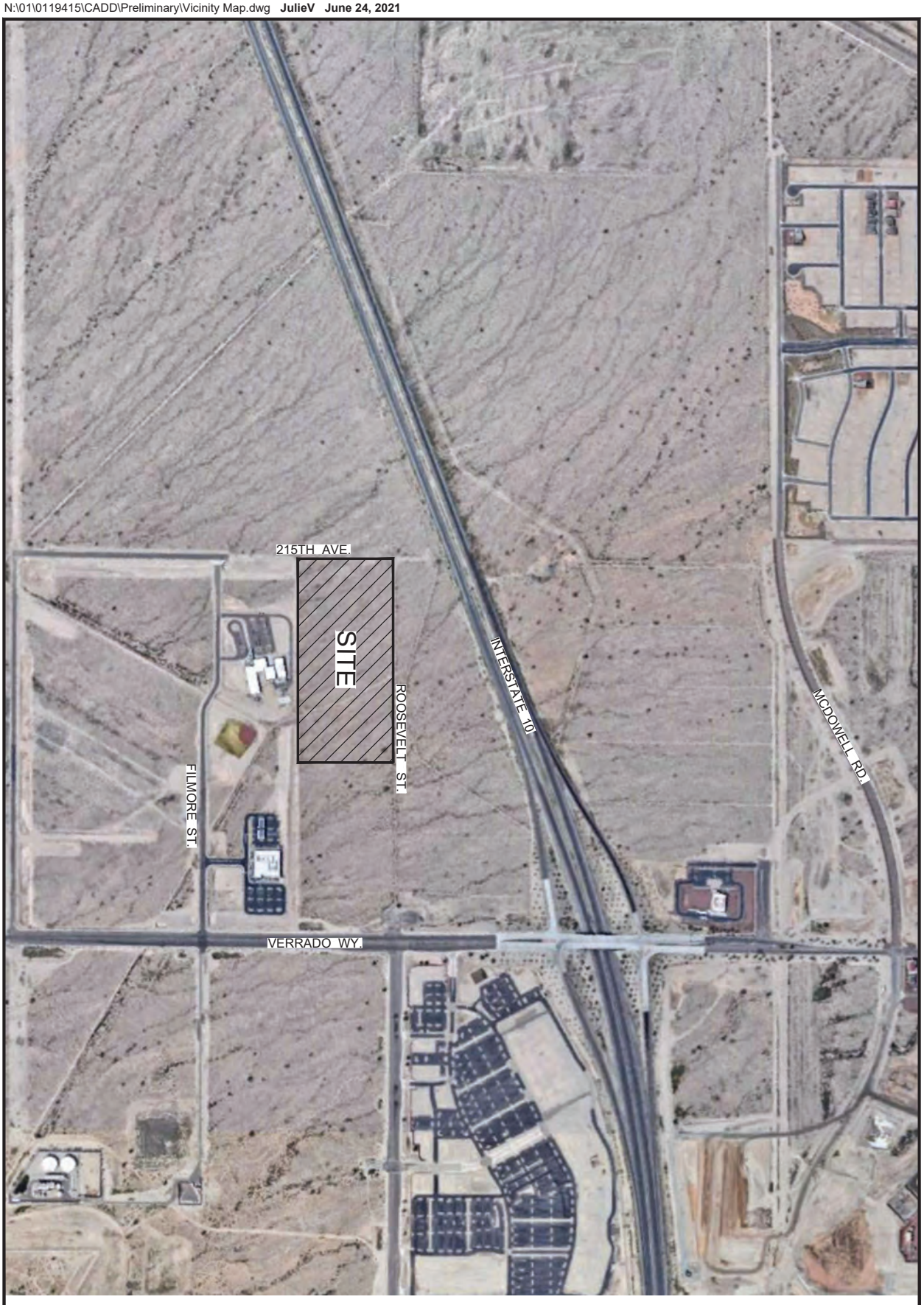
Sincerely,

COE & VAN LOO
Consultants, Inc.

Nicholas Maxwell

Nicholas Maxwell, P.E.
Project Manager
CVL Consultants, Inc.
4550 North 12th Street, Phoenix, Arizona 85014
(602) 285-4937 | nmaxwell@cvlci.com

N:\01\0119415\CADD\Preliminary\Vicinity Map.dwg **JulieV** **June 24, 2021**



SCALE : NTS'

EXHIBIT

4550 North 12th Street
Phoenix, Arizona 85014
Phone 602-264-6831
http://www.cvlci.com

REGIONAL VICINITY MAP

215TH AVENUE & ROOSEVELT INDUSTRIAL

CVL CONSULTANTS CELEBRATING 60 YEARS

PROJECT DATA:

PROJECT LOCATION:	SEC 211TH AVE AND ROOSEVELT ST
OWNER:	GEDDES CAPITAL RESOURCES LLC
PARCEL:	APN 504-20-002C
PROPOSED NET LOT AREA:	813,968 S.F. (±18.68 ACRES)
ZONING:	SF-43

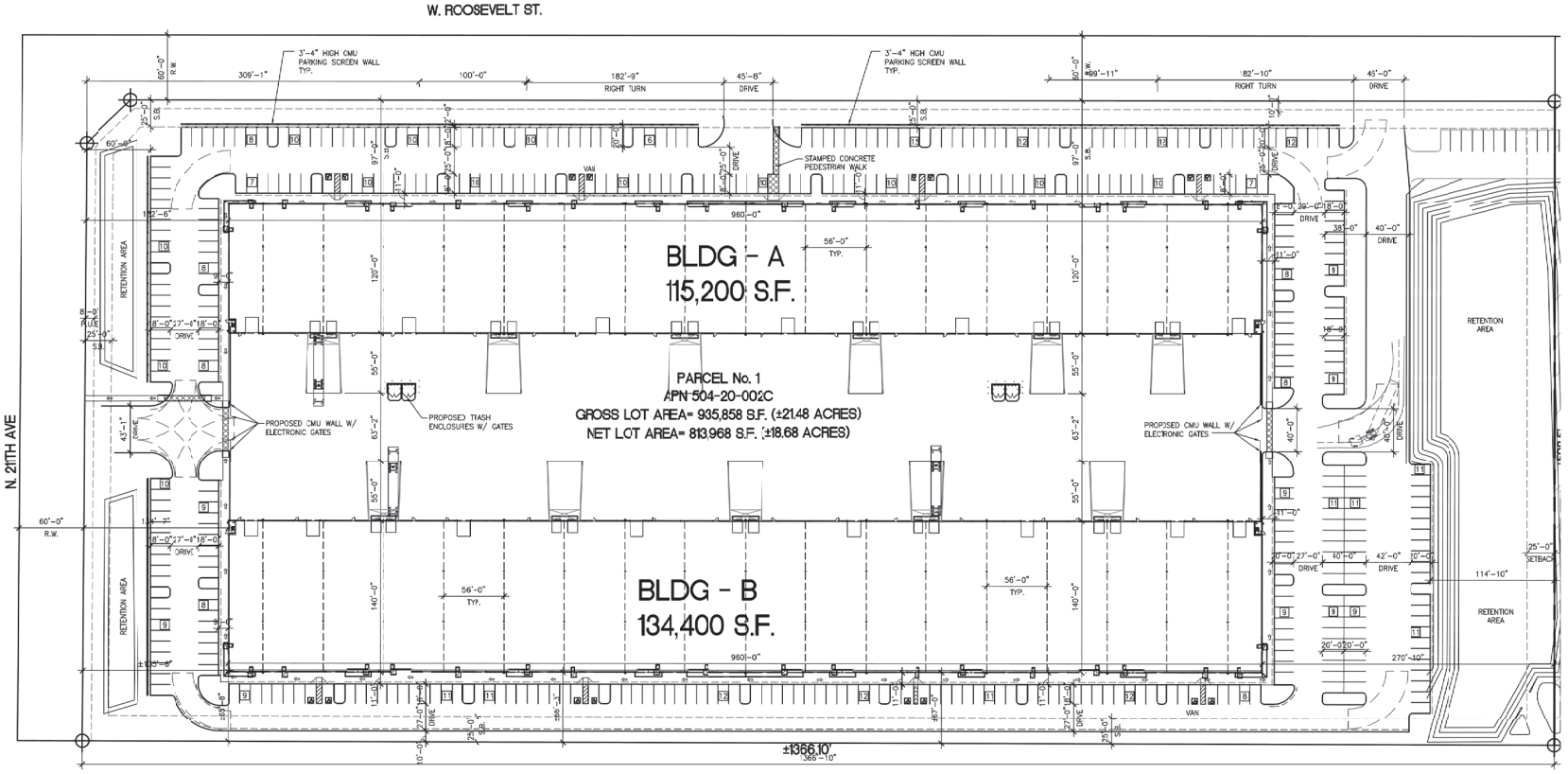
BUILDING AREA:

BUILDING-A	115,200 S.F.
BUILDING-B	134,400 S.F.
TOTAL BUILDING AREA	249,600 S.F.

PARKING CALCULATIONS:

249,600 S.F. (1/1,250 S.F.) = 213 P.S.

WAREHOUSE	249,600 / 1,250 = 200 P.S.
PARKING REQUIRED:	200 P.S.
PARKING PROVIDED:	535 P.S. (INCLUDING 16 ACCESSIBLE SPACES) (INCLUDING 2 VAN SPACES)



PRELIMINARY SITE PLAN
SCALE: 1" = 50'-0"

1"=50'-0"
50' 25' 0 50' 100'

ADG A1720

Andrews Design Group, Inc.
ARCHITECTURE PLANNING INTERIORS PROJECT MANAGEMENT
1095 W. RIO SALADO PKWY SUITE-203 TEMPE, ARIZONA 85281 (480) 894-3478 FAX: (480) 894-4013

BUSINESS PARK
211 TH AVE AND ROSEVELT ST.
BUCKEYE, ARIZONA

No:	DATE:	REVISIONS:
1		
2		
3		

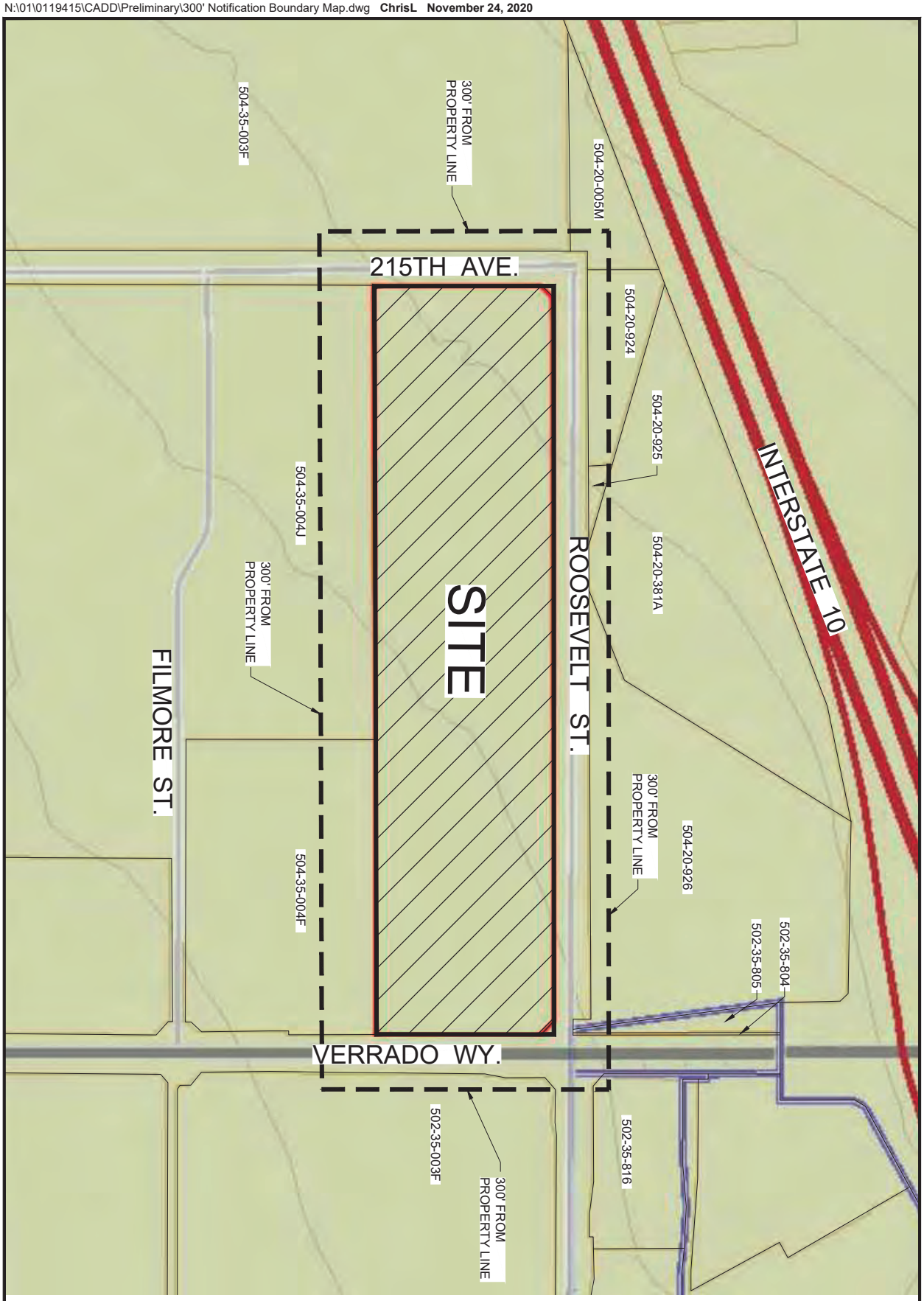
SP2

DATE: 01/05/2021

1519

1520

N:\01\0119415\CADD\Preliminary\300' Notification Boundary Map.dwg **ChrisL** **November 24, 2020**



SCALE : NTS'	300' NOTIFICATION BOUNDARY MAP	CVL CONSULTANTS CELEBRATING 60 YEARS
EXHIBIT		
4550 North 12th Street Phoenix, Arizona 85014 Phone 602-264-6831 http://www.cvlci.com	BUCKEYE COMMERCIAL PROJECT	1 OF 1

300' Buffer Notification Mailing List

Owner	Address	City	State	ZIP
BANNER HEALTH FOUNDATION	2901 N CENTRAL AVE STE 160	PHOENIX	AZ	85012
SUNBELT LAND HOLDINGS LP	8095 OTHELLO AVE	SAN DIEGO	CA	92111
BRIDGEWATER PROPERTIES CO LP	8095 OTHELLO AVE	SAN DIEGO	CA	92121
NEVADA HOLDING CO LP	8095 OTHELLO AVE	SAN DIEGO	CA	92111
GEDDES CAPITAL RESOURCES LLC	3020 E CAMELBACK RD - SUITE 350	PHOENIX	AZ	85016
BT AIRPORT ROAD LLC	200 DRYDEN RD STE 2000	DRESHER	PA	19025
ARIZONA PUBLIC SERVICE COMPANY	P O BOX 53999 MS 9565	PHOENIX	AZ	85072
HIGH SCHOOL BUCKEYE UNION DIST 201	902 EASON AVE	BUCKEYE	AZ	85326
BT AIRPORT ROAD LLC	200 DRYDEN RD STE 2000	DRESHER	PA	19025

BANNER HEALTH FOUNDATION
2901 N CENTRAL AVE STE 160
PHOENIX, AZ 85012

SUNBELT LAND HOLDINGS LP
8095 OTHELLO AVE
SAN DIEGO, CA 92111

BRIDGEWATER PROPERTIES CO LP
8095 OTHELLO AVE
SAN DIEGO, CA 92121

NEVADA HOLDING CO LP
8095 OTHELLO AVE
SAN DIEGO, CA 92111

GEDDES CAPITAL RESOURCES LLC
3020 E CAMELBACK RD - SUITE 350
PHOENIX, AZ 85016

BT AIRPORT ROAD LLC
200 DRYDEN RD STE 2000
DRESHER, PA 19025

ARIZONA PUBLIC SERVICE COMPANY
P O BOX 53999 MS 9565
PHOENIX, AZ 85072

HIGH SCHOOL BUCKEYE UNION DIST 201
902 EASON AVE
BUCKEYE, AZ 85326

BT AIRPORT ROAD LLC
200 DRYDEN RD STE 2000
DRESHER, PA 19025

Exhibit D

Published Notice

AFFIDAVIT OF PUBLICATION

for City of Buckeye Arizona

The Buckeye Star Newspaper Inc.
108 N. 4th St., Buckeye, Arizona 85326
P: 623.374.4303 F: 623.322.9686

STATE OF ARIZONA
COUNTY OF MARICOPA

I Corey Clark
(NAME OF PERSON AUTHORIZED TO SIGN ON BEHALF OF THE NEWSPAPER) , am authorized by the publisher as agent to make this affidavit of publication. Under oath, I state that the following is true and correct.

The Buckeye Star Newspaper Inc **(NAME OF THE NEWSPAPER),** is a newspaper which is published [check one of the following] daily___ , weekly X , bi-weekly___ is of general circulation and is in compliance with Arizona Revised Statutes" 10-140.34 & 39-201.A & B.

The notice will be/has been published 1 consecutive times in the newspaper listed above.

DATES OF PUBLICATION:

1) June 25, 2021
2)
3)

DESCRIPTION OF PUBLIC NOTICE: PLZZ-21-00016

AUTHORIZED SIGNATURE:

Title Office manager

JESSICA STEIN
Notary Public - Arizona
Maricopa County
Commission # 584935
My Commission Expires May 07, 2024

SUBSCRIBED AND SWORN TO BEFORE ME ON THE

23 Day of June 2021

NOTARY SIGNATURE :

Public Notice

SUMMONS
IN THE SECOND DISTRICT JUVENILE COURT IN AND FOR WEBER COUNTY
STATE OF UTAH
Case No. 1182742
State of Utah in the interest: J.M. DOB: 8-10-12
THE STATE OF UTAH TO: FREDDIE MARTINEZ

YOU ARE SUMMONED TO APPEAR before this court for a pretrial/trial/adjudication hearing on AUGUST 5, 2021 AT 4:00 P.M. on the Verified Petition to Terminate Parental Rights as to the abuse, neglect or dependency on the above-named child. You have a right to be represented by an attorney at these proceedings. If you do not appear at the time and place set forth herein, a judgement may be entered against you, which may include the Court entering your default as to the Verified Petition to Terminate Parental Rights.

PUBLISHED IN THE BUCKEYE STAR NEWSPAPER JUNE 25, JULY 2, 9, & 16, 2021

Public Notice

City of Buckeye

NOTICE IS HEREBY GIVEN that the City of Buckeye Planning and Zoning Commission will hold a public hearing on July 13th, 2021 and CITY COUNCIL WILL HOLD A PUBLIC HEARING ON AUGUST 17TH, 2021 in the City Council Chambers, 530 E Monroe Avenue, Buckeye Arizona at 6:00PM for the purpose of hearing all persons for or against the following request:

Case No. PLZZ-21-00016: Request by Nick Maxwell for the approval of Rezoning of approximately 20 acres from SF-43 to BP located at the Southeast Corner of Roosevelt Street and 215th Avenue.

For additional information, please contact the Department Services Department at (623) 349-6211.

PUBLISHED IN THE BUCKEYE STAR NEWSPAPER JUNE 25, 2021

Public Notice

ARTICLES OF ORGANIZATION HAVE BEEN FILED IN THE OFFICE OF THE ARIZONA CORPORATION COMMISSION FOR
ENTITY NAME: THE MOTO BUCKET LLC
ENTITY ID: 23207985
EFFECTIVE DATE: 4/09/2021
CHARACTER OF BUSINESS: ANY LEGAL PURPOSE
MANAGEMENT STRUCTURE: MEMBER MANAGED
PERIOD OF DURATION: PERPETUAL
STATUTORY AGENT: UNITED STATES CORPORATION AGENTS INC 17470 N PACESETTER WAY, SCOTTSDALE AZ 85255
PRINCIPAL ADDRESS: 24253 W TONTO ST BUCKEYE AZ 85326
PRINCIPALS: ROBERT DALE WITZIG 24253 W TONTO ST BUCKEYE AZ 85326
ORGANIZERS: LEGALZOOM.COM 101 N BRAND BLVD 11TH FLOOR GLENDALE CA 91203
PUBLISHED IN THE BUCKEYE STAR NEWSPAPER JUNE 11, 1,8 & 25 2021

JOBS

NOW HIRING

HIRING BARBERS/STYLIST. BUCKEYE AZ.

Exhibit E

Sign Posting

Affidavit of Sign Posting

Case Number: PLZZ-21-00016

Project Name: 215th Ave & Roosevelt Industrial

Applicant Name: Nick Maxwell (CVL Consultants)

Location: Southeast Corner 215th Ave & Roosevelt St

In order to assist in providing adequate notice to interested parties and to meet Arizona State Statue, the **applicant** for public hearings in the City of Buckeye shall post signs as prescribed by the "City of Buckeye Site Posting Requirements." **It shall be the responsibility of the applicant to erect and to maintain the sign on the subject property and to update the hearing information on the sign until the final disposition of the case. It shall also be the responsibility of the applicant to remove the sign within ten (10) days after the final disposition of the case.**

I confirm that the site has been posted as detailed by the City of Buckeye Site Posting Requirements for the case above and the site was posted at least fifteen (15) days prior to the public hearing.

See attached date stamped photo exhibit of posted signs.

Applicant's / Representative's signature: Nicholas Maxwell

SUBSCRIBED AND SWORN before me this 23 day of June, 2021, by:

Notary Public

My Commission Expires:
10/15/23

CHRISTINE NICODEMUS
Notary Public - Arizona
Maricopa County
My Commission Expires
10/15/2023
Commission # 342180


City of Buckeye
PUBLIC HEARING
Planning and Zoning Commission: July 19th, 2021 at 6:30pm
City Council August 17th, 2021 at 6:00pm
LOCATION OF HEARING: 530 E. Monroe, Buckeye, AZ
REQUEST: Rezoning application for future industrial flex buildings
PROPOSAL: Single family 43 (SF-43) to Business Park (BP)
GENERAL LOCATION: Southeast Corner 215th Ave & Roosevelt St
SIZE: 20 Acres
CASE#: PLZZ-21-00016
APPLICANT/CONTACT: NICK MAXWELL
PHONE #: 602-253-4557
Development Services Department: (623)
Posting Date: June 23, 2021


City of Buckeye
PUBLIC HEARING
Planni ng and Zoning Commission: July 13th, 2021 at 6:00pm
City Council August 17th, 2021 at 6:00pm
LOCATION OF HEARING: 530 E. Monroe, Buckeye, AZ
REQUEST: Rezoning application for future industrial flex building(s)
PROPOSAL: Single family 43 (SF-43) to Business Park (BP)
GENERAL LOCATION: Southeast Corner 215th Ave & Roosevelt St.
SIZE: 20 Acres
CASE#: PLZZ-21-00016
APPLICANT/CONTACT: NICK MAXWELL
PHONE #: 602-285-4937
Development Services Department: 623-349-6211
Posting Date: June 21, 2021


City of Buckeye
PUBLIC HEARING

ANDREWS DESIGN GROUPinc

June 11, 2021

LETTER OF INTENT / PROJECT NARRATIVE
BUCKEYE INDUSTRIAL
SEC 211th AVE. AND ROOSEVELT ST.

Site Location: SEC N. 211th Ave. and W. Roosevelt St.
Project Name: Buckeye Industrial
Parcel: APN 504-20-002C
Proposed Net Lot Area: +/- 18.00 Acres
Zoning: current SF-43, proposed to re-zone to BP for flex industrial use

As the architect for this project, I will be representing the owner for this Pre-Application submittal.

Owner:
Kentwood Ventures
4622 East Rancho Caliente
Cave Creek, AZ 85331
Phone: 602-361-8716
Email: jim@bouldersrealtyadvisors.com

Architect:
Don Andrews, President
Andrews Design Group, Inc.
1095 W. Rio Salado Pkwy., Suite 203
Tempe, Arizona 85281
Office: 480-894-3478
Email: don@adgarch.net

This site is located at the southeast corner of N. 211th Ave. and W. Roosevelt St.
APN 504-20-002C, Lot 2, approximate net area +/- 18.00 Acres.
Related zoning case number PLZM-20-00115.

Proposed electrical easement along north side of property at Roosevelt St.

Two driveway access points proposed at Roosevelt St. and one driveway access point at 211th Ave.

Retention areas proposed at frontage of 211th Ave. and another between Lot 1 & adjacent Lot 2 of the same parcel.

Setbacks:
Building setbacks frontage - 100'-6" / street side average - 135 feet
Landscape setback average 25 feet

Building height: 42 feet proposed height.

Proposed for new warehouse business park with approximate building area of 249,600 s.f including approximate 10% of office area, which will be a future T.I. buildout under separate permit.

Building-A 115,200 s.f.
Building-B 134,400 s.f.

This project is an Industrial Flex Building(s) for multi-use tenants. The buildings are tilt-up construction with hybrid steel joist/wood panel roof framing. The buildings have recessed and above grade docks located in combined dock area, that is screened by both buildings and site walls. The project includes a private access road for this site and the future site directly east of this site fronting W. Roosevelt St., which will eventually become a separate parcel from our project site. This project is to build adjacent half-street improvements. W. Roosevelt will be extended full width from N. Verrado Way to N. 215th Ave., and N. 211th Ave. will extend south to the end of the site frontage.

Proposed loading between buildings to provide screen from street view.

Parking calculations:
Flex Industrial 224,600 / 1,500 = 150 p.s.
Potential Office 25,000 / 300 = 71 p.s.

Total Parking Required: 221 P.S., including minimum 7 accessible spaces and minimum 2 van spaces.

Total Parking Provided per owner's program: 535 p.s., including 16 accessible spaces and 2 van spaces.

NOTE: Project shall comply with City of Buckeye Engineering Design Standards and requirements.

NOTE: Project will be required to implement any roadway recommendations per the traffic impact analysis.

Feel free to contact me directly with any questions.

Sincerely,



Don Andrews
President
Andrews Design Group, Inc.
Office: 480-894-3478
Email: don@adgarch.net

Attachment 7.

November 19, 2020

LEGAL DESCRIPTION FOR
ROOSEVELT AND VERRADO
LOT 2 (WEST) PARCEL

That part of the North Half of the North Half of the Southeast Quarter of Section 1, Township 1 North, Range 3 West of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

Commencing at the Brass Cap in hand hole stamped Town of Buckeye marking the East Quarter Corner of said Section 1, from which the Brass Cap in hand hole stamped Town of Buckeye marking the Southeast Corner of said Section 1 bears South 00°26'05" West, a distance of 2,644.87 feet;

Thence North 89°56'33" West, along the North line of the Southeast Quarter of said Section 1, a distance of 1,208.09 feet;

Thence South 00°03'27" West, a distance of 60.00 feet to the True Point of Beginning;

Thence continuing South 00°03'27" West, a distance of 598.44 feet to a point on the South line of the North Half of the North Half of the Southeast Quarter of said Section 1;

Thence North 89°49'23" West, along said South line, a distance of 1,381.46 feet to a point on the Easterly right of way line of 215th Avenue, as dedicated in Book 1300 of Maps, Page 29, Records of Maricopa County, Arizona, said point being on a line which is parallel with and 60.00 feet Easterly, as measured at right angles, from the West line of the Southeast Quarter of said Section 1;

Thence North 00°26'31" East, along said Easterly right-of-way line and said parallel line, a distance of 555.57 feet;

Thence North 45°14'59" East, departing said parallel line along said Easterly right-of-way line, a distance of 56.76 feet to a point on the Southerly right-of-way line of Roosevelt Street as dedicated in said Book 1300 of Maps, Page 29, said point also being on a line which is parallel with and 60.00 feet Southerly, as measured at right angles, from the North line of the Southeast Quarter of said Section 1;

4550 N 12th Street | Phoenix AZ 85014 | 602.264.6831 | (F) 602.264.0928

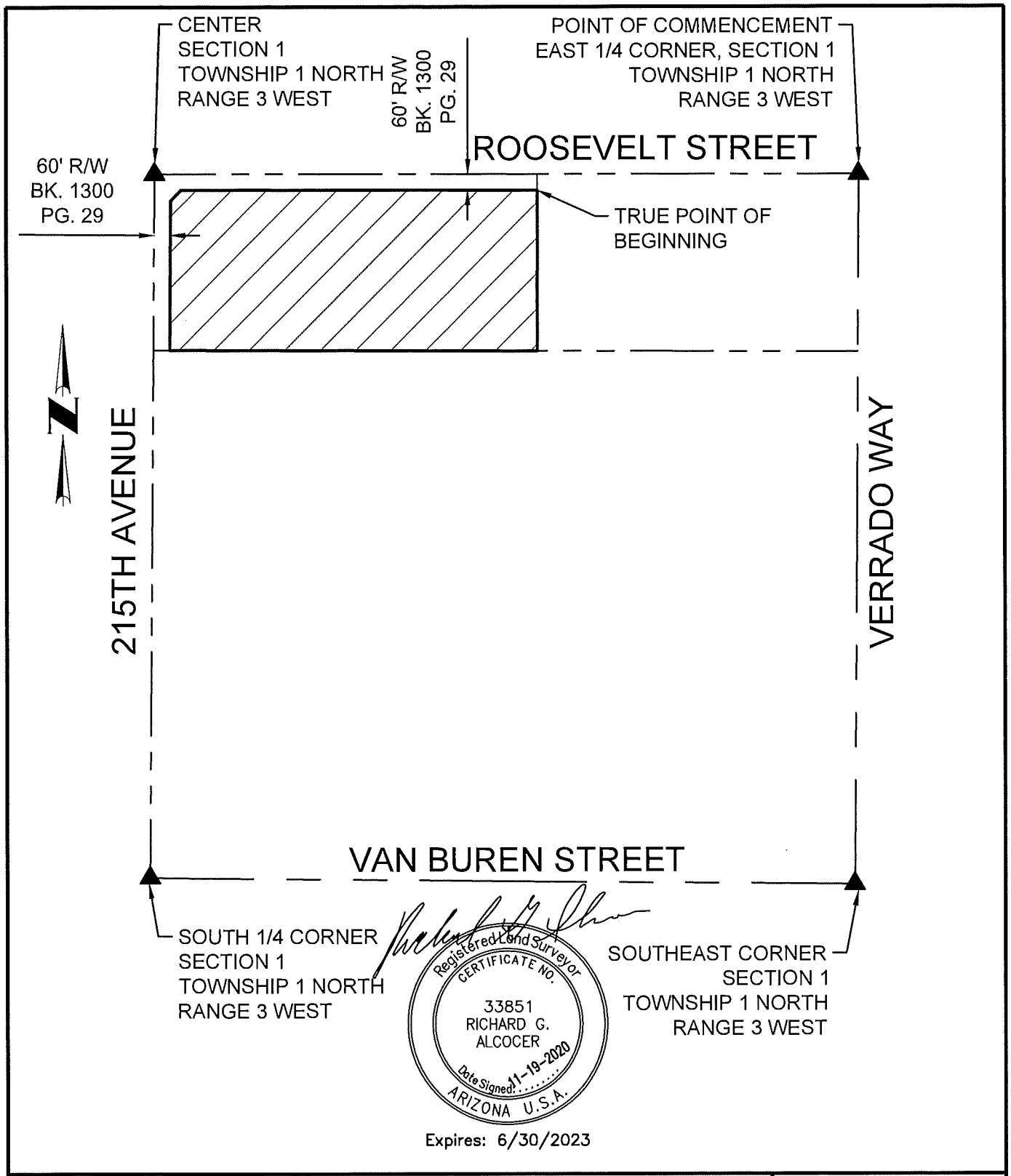
CVL CONSULTANTS 1533

Thence South 89°56'33" East, along said Southerly right-of-way line and said parallel line, a distance of 1,337.46 feet to the True Point of Beginning.

Containing 822,737 Square Feet or 18.887 Acres, more or less.



4550 N 12th Street | Phoenix AZ 85014 | 602.264.6831 | (F) 602.264.0928



Expires: 6/30/2023

SCALE 1" = 500'	ROOSEVELT & VERRADO	CVL CONSULTANTS CELEBRATING 60 YEARS
EXHIBIT	LOT 2 (WEST) PARCEL	1 OF 1
4550 North 12th Street Phoenix, Arizona 85014 Phone 602-264-6831 http://www.cvlci.com		

N:\01\0119415\CADD\Exhibits\VX.WEST.PCL.dwg **TomD June 11, 2021**

Attachment 8: Public Comment

From: Sebastian Trupiano
To: Randy Proch
Cc: Keri Hernandez
Subject: PLZZ-21-00016 - Verrado Way & Roosevelt Street Rezone
Date: Monday, June 21, 2021 10:43:12

[**NOTICE:** This message originated outside of the City of Buckeye -- **DO NOT CLICK** on **links** or open **attachments** unless you are sure the content is safe.]

Randy,

As a concerned Buckeye resident, I've let Keri and others know of my concerns with adding stuff to the Verrado Way and I-10 area without addressing the road infrastructure issues in the area. With MAG basically not caring about the area and delaying the Dean Road interchange, the roads just can't handle the proposed growth. I'm not against growth eventually, just against it now. Especially with the schools in the area. From my perspective adding a cross-dock facility will just compound a problem that already exists.

Thanks for your time.

Sebastian Trupiano

WHEN RECORDED, RETURN TO:

City of Buckeye
ATTN: City Clerk, Lucinda J. Aja
530 East Monroe Avenue
Buckeye, Arizona 85326

ORDINANCE NO. 15-21

AN ORDINANCE OF THE MAYOR AND CITY COUNCIL OF THE CITY OF BUCKEYE, ARIZONA, AMENDING THE ZONING MAP OF THE CITY OF BUCKEYE ON APPROXIMATELY 18.9 ACRES, LOCATED GENERALLY AT THE SOUTHEAST CORNER OF 215TH AVENUE AND ROOSEVELT STREET, FROM SF-43, SINGLE-FAMILY RURAL RESIDENTIAL, TO BP, BUSINESS PARK DISTRICT, FOR A PROPERTY KNOWN AS VERRADO WAY AND ROOSEVELT STREET.

WHEREAS, by adoption of this Ordinance, the City Council desires to amend the Zoning Map of the City of Buckeye by amending approximately 18.9 acres from SF-43, Single-Family Rural Residential, to BP, Business Park District; and

WHEREAS, all required notices of the public hearings scheduled on this zoning request were provided pursuant to the Development Code of the City of Buckeye and State law; and

WHEREAS, the City of Buckeye Planning & Zoning Commission held a public hearing on July 13, 2021, and recommended approval of this zoning change subject to conditions; and

WHEREAS, the recommended zoning changes are in conformity with the General Plan.

NOW THEREFORE BE IT ORDAINED, by the Mayor and City Council of the City of Buckeye, Arizona, as follows:

Section 1. The Zoning Map of the City of Buckeye is hereby amended by changing approximately 18.9 acres of property, as described in **Exhibit A** and depicted on **Exhibit B**, both attached hereto, from SF-43, Single-Family Rural Residential, to BP, Business Park District.

Section 2. All present and future owners of the property described in **Exhibit A** and depicted in **Exhibit B**, both attached hereto, shall develop the property in accordance with the requirements of the Letter of Intent / Project Narrative, Buckeye Industrial, SEC 211th Ave. and Roosevelt St., as provided in **Exhibit C** attached hereto, and the conditions set forth in **Exhibit D** attached hereto.

Section 3. The Mayor, the City Manager, the City Clerk, and the City Attorney are hereby authorized and directed to take all steps to execute all documents necessary to carry out the purpose and intent of this Ordinance.

PASSED AND ADOPTED by the Mayor and City Council of the City of Buckeye, Arizona, this 17th day of August 2021.

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda J. Aja, City Clerk

APPROVED AS TO FORM:

_____
Shiela B. Schmidt, City Attorney

MG2:mg2 4182588.2 8/3/2021

EXHIBIT A
TO
ORDINANCE NO. 15-21

Legal Description

[See following pages]

Exhibit A
To
Ordinance NO. 15-21

November 19, 2020

LEGAL DESCRIPTION FOR
ROOSEVELT AND VERRADO
LOT 2 (WEST) PARCEL

That part of the North Half of the North Half of the Southeast Quarter of Section 1, Township 1 North, Range 3 West of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

Commencing at the Brass Cap in hand hole stamped Town of Buckeye marking the East Quarter Corner of said Section 1, from which the Brass Cap in hand hole stamped Town of Buckeye marking the Southeast Corner of said Section 1 bears South 00°26'05" West, a distance of 2,644.87 feet;

Thence North 89°56'33" West, along the North line of the Southeast Quarter of said Section 1, a distance of 1,208.09 feet;

Thence South 00°03'27" West, a distance of 60.00 feet to the True Point of Beginning;

Thence continuing South 00°03'27" West, a distance of 598.44 feet to a point on the South line of the North Half of the North Half of the Southeast Quarter of said Section 1;

Thence North 89°49'23" West, along said South line, a distance of 1,381.46 feet to a point on the Easterly right of way line of 215th Avenue, as dedicated in Book 1300 of Maps, Page 29, Records of Maricopa County, Arizona, said point being on a line which is parallel with and 60.00 feet Easterly, as measured at right angles, from the West line of the Southeast Quarter of said Section 1;

Thence North 00°26'31" East, along said Easterly right-of-way line and said parallel line, a distance of 555.57 feet;

Thence North 45°14'59" East, departing said parallel line along said Easterly right-of-way line, a distance of 56.76 feet to a point on the Southerly right-of-way line of Roosevelt Street as dedicated in said Book 1300 of Maps, Page 29, said point also being on a line which is parallel with and 60.00 feet Southerly, as measured at right angles, from the North line of the Southeast Quarter of said Section 1;

4550 N 12th Street | Phoenix AZ 85014 | 602.264.6831 | (F) 602.264.0928

CVL CONSULTANTS 1540

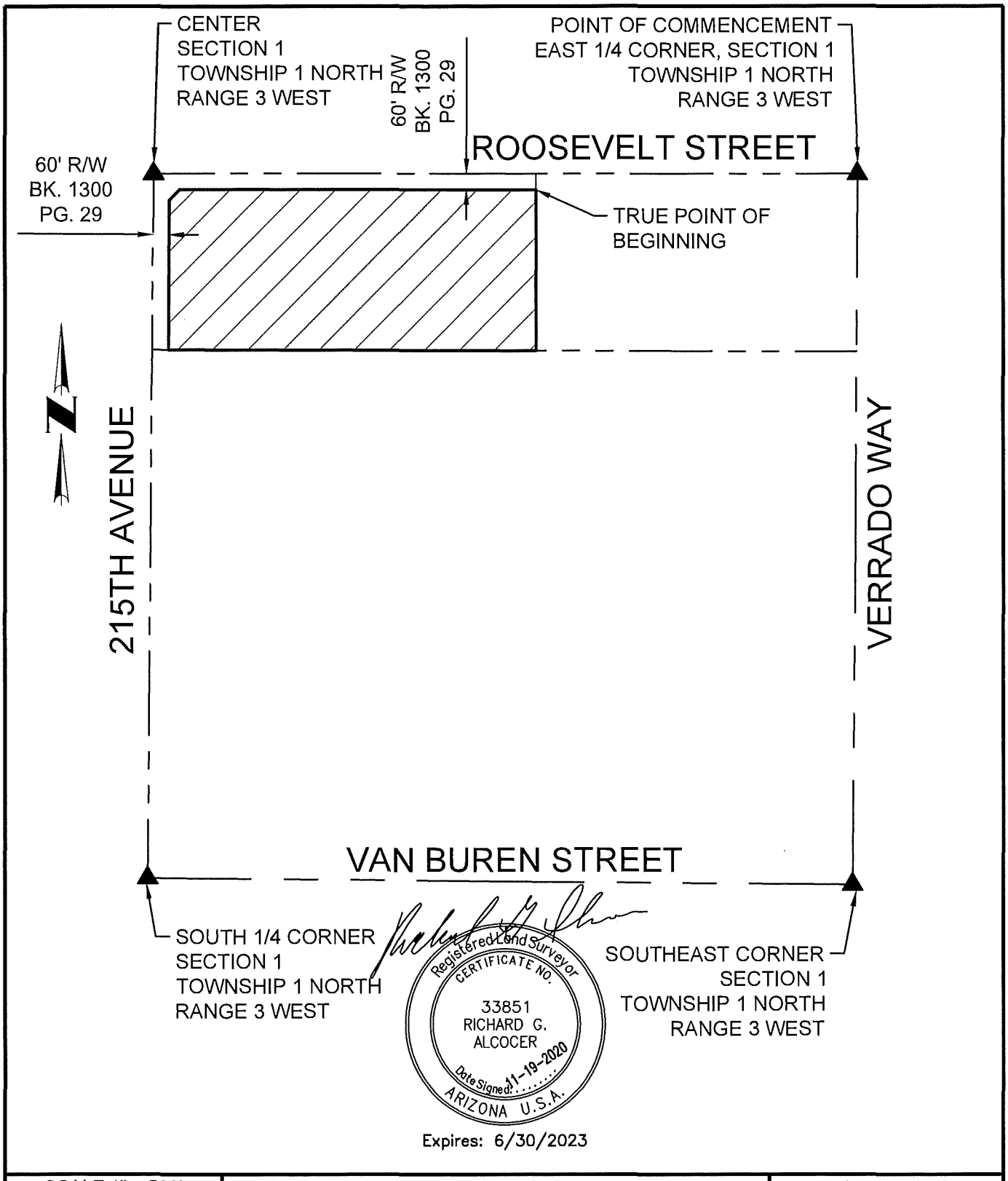
Thence South 89°56'33" East, along said Southerly right-of-way line and said parallel line, a distance of 1,337.46 feet to the True Point of Beginning.

Containing 822,737 Square Feet or 18.887 Acres, more or less.



4550 N 12th Street | Phoenix AZ 85014 | 602.264.6831 | (F) 602.264.0928

CVL 1541 CONSULTANTS



Expires: 6/30/2023

SCALE 1" = 500'	ROOSEVELT & VERRADO	CVL CONSULTANTS CELEBRATING 60 YEARS
EXHIBIT	LOT 2 (WEST) PARCEL	1 OF 1
4550 North 12th Street Phoenix, Arizona 85014 Phone 602-264-6831 http://www.cvlci.com		

N:\01\0119415\CADD\Exhibits\VX.WEST.PCL.dwg **TomD June 11, 2021**

EXHIBIT B
TO
ORDINANCE NO. 15-21

Depiction of Property

[See following page]

Exhibit B

Vicinity Map



Subject Property

EXHIBIT C
TO
ORDINANCE NO. 15-21

Letter of Intent / Project Narrative, Buckeye Industrial, SEC 211th Ave. and Roosevelt St.

[See following pages]

Exhibit C to
Ordinance NO. 15-21

ANDREWS DESIGN GROUPinc

June 11, 2021

LETTER OF INTENT / PROJECT NARRATIVE
BUCKEYE INDUSTRIAL
SEC 211th AVE. AND ROOSEVELT ST.

Site Location: SEC N. 211th Ave. and W. Roosevelt St.
Project Name: Buckeye Industrial
Parcel: APN 504-20-002C
Proposed Net Lot Area: +/- 18.00 Acres
Zoning: current SF-43, proposed to re-zone to BP for flex industrial use

As the architect for this project, I will be representing the owner for this Pre-Application submittal.

Owner:
Kentwood Ventures
4622 East Rancho Caliente
Cave Creek, AZ 85331
Phone: 602-361-8716
Email: jim@bouldersrealtyadvisors.com

Architect:
Don Andrews, President
Andrews Design Group, Inc.
1095 W. Rio Salado Pkwy., Suite 203
Tempe, Arizona 85281
Office: 480-894-3478
Email: don@adgarch.net

This site is located at the southeast corner of N. 211th Ave. and W. Roosevelt St.
APN 504-20-002C, Lot 2, approximate net area +/- 18.00 Acres.
Related zoning case number PLZM-20-00115.

Proposed electrical easement along north side of property at Roosevelt St.

Two driveway access points proposed at Roosevelt St. and one driveway access point at 211th Ave.

Retention areas proposed at frontage of 211th Ave. and another between Lot 1 & adjacent Lot 2 of the same parcel.

Setbacks:
Building setbacks frontage - 100'-6" / street side average - 135 feet
Landscape setback average 25 feet

Building height: 42 feet proposed height.

Proposed for new warehouse business park with approximate building area of 249,600 s.f including approximate 10% of office area, which will be a future T.I. buildout under separate permit.

Building-A 115,200 s.f.
Building-B 134,400 s.f.

This project is an Industrial Flex Building(s) for multi-use tenants. The buildings are tilt-up construction with hybrid steel joist/wood panel roof framing. The buildings have recessed and above grade docks located in combined dock area, that is screened by both buildings and site walls. The project includes a private access road for this site and the future site directly east of this site fronting W. Roosevelt St., which will eventually become a separate parcel from our project site. This project is to build adjacent half-street improvements. W. Roosevelt will be extended full width from N. Verrado Way to N. 215th Ave., and N. 211th Ave. will extend south to the end of the site frontage.

Proposed loading between buildings to provide screen from street view.

Parking calculations:
Flex Industrial 224,600 / 1,500 = 150 p.s.
Potential Office 25,000 / 300 = 71 p.s.

Total Parking Required: 221 P.S., including minimum 7 accessible spaces and minimum 2 van spaces.

Total Parking Provided per owner's program: 535 p.s., including 16 accessible spaces and 2 van spaces.

NOTE: Project shall comply with City of Buckeye Engineering Design Standards and requirements.

NOTE: Project will be required to implement any roadway recommendations per the traffic impact analysis.

Feel free to contact me directly with any questions.

Sincerely,

Don Andrews
President
Andrews Design Group, Inc.
Office: 480-894-3478
Email: don@adgarch.net

EXHIBIT D
TO
ORDINANCE NO. 15-21

Conditions

a. Development of the property shall be in general conformance to the Letter of Intent / Project Narrative, Buckeye Industrial, SEC 211th Ave. and Roosevelt St., consisting of two (2) pages and dated June 11, 2021, except as modified by the following condition:

    1. The property owner/s and their successor waive any and all claims for diminution in value of the property with regard to any action taken by the City of Buckeye as a result of this approval.

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 7.C. MOU Between the City of Buckeye and Salt River Project to Support the Bartlett Dam Modification Feasibility Study.
DATE PREPARED: 08/12/21	**DISTRICT NO.:** All
STAFF LIAISON: Alisha Solano, Water Resources Director, asolano@buckeyeaz.gov, (623) 349-6101	
DEPARTMENT: Water Resources	**AGENDA ITEM TYPE:** Public Hearing / Non Consent - New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to approve the Memo of Understanding (MOU) between the City of Buckeye and Salt River Project (SRP) to support the feasibility evaluation for modification to Bartlett Dam and authorize the Mayor to sign the MOU on behalf of the City.

RELEVANT GOALS:
GOAL 3: A Well-Planned Urban Community

ADDITIONAL RELEVANT GOALS:
GOAL 2: Enhanced Economic Well-Being and Vitality

SUMMARY

PROJECT DESCRIPTION:
Approval and execution of this MOU allows the City of Buckeye to support the Bartlett Dam Modification Feasibility Study, among with the following entities: City of Apache Junction, City of El Mirage, Town of Queen Creek, City of Surprise, Town of Gilbert, City of Mesa, City of Peoria, City of Goodyear, City of Avondale, City of Chandler, City of Glendale, City of Scottsdale, City of Tempe, City of Phoenix, Arizona Water Company, EPCOR, Central Arizona Groundwater Replenishment District, Buckeye Water Conservation and Drainage District, Roosevelt Water Conservation District, Fort McDowell Yavapai Nation, and Salt River Project.

Approval and execution of the MOU shows the City of Buckeye's intent to share in the cost of the agreement, provide relevant data and information for the study, sit on the steering committee and provide critical communication to elected officials and other relevant stakeholders on this project.

BENEFITS:
Approval of this item will allow the City of Buckeye, along with several other entities, to initiate a feasibility study to determine the technical, environmental, economic and financial feasibility of implementing Bartlett Dam modifications to enable Arizona to adapt water management through the potential rising of the dam. If proven sustainable, raising the dam may provide additional surface water supplies to become available for those partners in future years. This may be a potential new surface water supply for the City of Buckeye in future years.

FUTURE ACTION:

A separate cost-share agreement is expected to come forward to Council in Fall 2021. The Water Resources Department has budgeted for this potential cost-share agreement.

FINANCIAL IMPACT STATEMENT:
None.

CURRENT FISCAL YEAR TOTAL COST:
$0

BUDGETED:
Yes

FISCAL YEAR:
FY 21-22

FUND/DEPARTMENT:
4000/3210/520037

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
MOU SRP Feasibility Study 8.10.21.DOCX

MEMORANDUM OF UNDERSTANDING

TO SUPPORT THE BARTLETT DAM MODIFICATION FEASIBILITY STUDY

AMONG VARIOUS PARTICIPATING ENTITIES,

SALT RIVER VALLEY WATER USERS' ASSOCIATION,

AND

SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND POWER DISTRICT

August__, 2021

1. PARTIES:

This nonbinding memorandum of understanding ("MOU") to support the Bartlett Dam Modification Feasibility Study is entered into by those entities listed in the Contact List of Exhibit A ("Participating Entities"), the Salt River Valley Water Users' Association ("Association"), and the Salt River Project Agricultural Improvement and Power District ("District"). The Association and District are referred to collectively as "SRP." SRP and the Participating Entities are referred to collectively as "Parties."

2. BACKGROUND AND PURPOSE:

a. The United States Department of the Interior's Bureau of Reclamation ("Reclamation"), in partnership with SRP, conducted an appraisal level investigation called the Verde Reservoirs Sediment Mitigation Study to evaluate options to restore capacity lost in SRP's Verde River reservoirs due to sediment accumulation, which impacts critical water supplies for central Arizona.

b. Reclamation issued a draft report entitled "Verde Reservoirs Sediment Mitigation Study Appraisal Report" in May 2021 ("Draft Appraisal Report") recommending that Reclamation:

i. Seek/confirm authority to initiate a feasibility study to determine the technical, environmental, economic, and financial feasibility of implementing one of two Bartlett Dam modification alternatives to enable central Arizona to adapt water management to changing climate conditions ("Bartlett Dam Modification Feasibility Study");

ii. Address topics identified in the Verde Reservoirs Sediment Mitigation Study during the feasibility study process; and

iii. Develop cost-share agreements necessary to support the successful completion of the Bartlett Dam Modification Feasibility Study.

c. Reclamation is expected to release a final appraisal report by the end of calendar year 2021. The Parties support Reclamation's recommendations as identified in Subparagraph 2(b) and the initiation of the Bartlett Dam Modification Feasibility Study to further evaluate alternatives for modification of Bartlett Dam to improve management of water supplies of the Verde River, reduce the reliance on groundwater, and help position central Arizona to manage extended droughts and shortages created by climate change impacts on the Colorado, Salt, and Verde River watersheds.

d. The purpose of this MOU is to describe the cooperative efforts and roles and responsibilities of the Parties related to supporting Reclamation in completing the Bartlett Dam Modification Feasibility Study as recommended in the Draft Appraisal Report. As described below, included in those cooperative efforts is the formation and participation in a steering committee as described in Paragraph 5(d) ("Steering Committee"), and development of the following agreements: (1) a cost-share agreement among the Participating Entities and SRP as described in Paragraph 5(a) ("Nonfederal Participating Entities Cost-Share Agreement"), and (2) the development of a cost-share agreement among SRP and Reclamation as described in Paragraph 4(b)(i) ("SRP-Reclamation Cost-Share Agreement").

3. TERM AND TERMINATION:

a. This MOU will become effective upon execution by the Parties and, unless terminated under Subparagraph 3(b), will remain in effect until Reclamation issues a final report for the Bartlett Dam Modification Feasibility Study.

b. This MOU will terminate in the event that Reclamation issues a final Verde Reservoirs Sediment Mitigation Study Appraisal Report that does not include a recommendation to study the feasibility of Bartlett Dam modification alternatives.

c. This MOU and the provisions of this MOU may only be modified upon mutual written consent of the Parties.

4. RESPONSIBILITIES:

a. Mutual Responsibilities:

i. The Parties will work cooperatively to develop the Nonfederal Participating Entities Cost-Share Agreement.

ii. The Parties will work cooperatively to form and participate in the Steering Committee that is identified in Subparagraph 5(d) and will be further described by the Nonfederal Participating Entities Cost-Share Agreement.

iii. The Parties will support and assist Reclamation to conduct the Bartlett Dam Modification Feasibility Study in the event that Reclamation has/obtains authority to conduct this study as identified in the recommendations noted in Subparagraph 2(b). This support and assistance is expected to include funding of the Bartlett Dam Modification Feasibility Study by some or all of the Participating Entities, as will be specified by the Nonfederal Participating Entities Cost-Share Agreement. The Parties will provide data and information relevant to analyses that may include but are not limited to assessments of hydrology and climate change, demand for use of water supplies, environmental and cultural resources, economics, engineering, dam safety and flood control, and recreation.

b. SRP Responsibilities:

i. SRP will work with Reclamation to develop the SRP-Reclamation Cost-Share Agreement as a mechanism for SRP to pay the nonfederal cost-share required for completing the Bartlett Dam Modification Feasibility Study in the event that Reclamation has/obtains authority to conduct this study, including the funds collected under the Nonfederal Participating Entities Cost-Share Agreement, for completing the Bartlett Dam Modification Feasibility Study.

ii. SRP will consult with the Participating Entities on substantive decisions related to Reclamation developing a plan of study for the Bartlett Dam Modification Feasibility Study while it finalizes the Draft Appraisal Report.

SRP will be the single point of contact with Reclamation on behalf of the Parties and will lead communications with Reclamation related to the Bartlett Dam Modification Feasibility Study until the Nonfederal Participating Entities Cost-Share Agreement is executed.

iii. SRP will serve as chair of the Steering Committee.

c. Participating Entities Responsibilities:

i. Participating Entities will provide relevant data, information, opinions, and analyses related to the Bartlett Dam Modification Feasibility Study as reasonably requested by SRP or Reclamation in the event that Reclamation has/obtains authority to conduct the Bartlett Dam Modification Feasibility Study.

ii. Participating Entities will serve on the Steering Committee as appropriate to engage in collaboration and coordination with SRP to support Reclamation's completion of the Bartlett Dam Modification Feasibility Study as will be further defined in the Nonfederal Participating Entities Cost-Share Agreement.

iii. Participating Entities will coordinate and collaborate with SRP in efforts to communicate information related to the Bartlett Dam Modification Feasibility Study with elected officials and other relevant stakeholders on the project.

5. DEVELOPMENT OF THE NONFEDERAL PARTICIPATING ENTITIES COST-SHARE AGREEMENT:

a. The Parties will collaborate to develop the Nonfederal Participating Entities Cost-Share Agreement with a goal of execution in Fall 2021. The Nonfederal Participating Entities Cost-Share Agreement will describe how nonfederal costs will be allocated among SRP and any Participating Entities agreeing to share those costs to provide nonfederal funding to Reclamation and any appropriate contractors to conduct the Bartlett Dam Modification Feasibility Study in the event that Reclamation has/obtains authority to conduct this study.

b. As part of the process to develop the Nonfederal Participating Entities Cost-Share Agreement, SRP and any Participating Entities agreeing to share the nonfederal costs will collaborate to determine the relative shares of the non-federal cost contribution in support of the Bartlett Dam Modification Feasibility Study in the event that Reclamation has/obtains authority to conduct this study as recommended in the Draft Appraisal Report. The Parties understand that any cost-share contribution under the Nonfederal Participating Entities Cost-Share Agreement does not guarantee capacity in a future Modified Bartlett Dam in the event such a facility is constructed.

c. The Nonfederal Participating Entities Cost-Share Agreement will be among SRP and any Participating Entities agreeing to share the nonfederal costs and will require those Participating Entities to submit funds to SRP for SRP to remit such funds to any necessary contractors or to Reclamation through the separate Reclamation-SRP Cost-Share Agreement.

d. As part of the Nonfederal Participating Entities Cost-Share Agreement, the Parties will establish the Steering Committee chaired by SRP to provide timely and effective feedback and guidance to support Reclamation and any necessary contractors in achieving the milestones necessary to complete the Bartlett Dam Modification Feasibility Study in the event that Reclamation has/obtains authority to conduct this study and to facilitate coordination in communications with elected officials and other relevant stakeholders.

6. AUTHORIZED REPRESENTATIVES

Within thirty (30) days after execution of this MOU, SRP and each Participating Entity shall designate in writing to the other Parties an Authorized Representative and an Alternate to administer this MOU on behalf of the designating party. Written notice of a change of an Authorized Representative or Alternate shall be provided within thirty (30) days of such change. The Alternate shall act only in the absence of the Authorized Representative. Neither the Authorized Representatives nor the Alternates shall have authority to amend, modify, or supplement this MOU. Agreements of the Authorized Representatives pursuant to this MOU shall be in writing and signed by them.

7. ADDITION AND WITHDRAWAL OF PARTICIPATING ENTITIES:

a. Any Participating Entity may voluntarily withdraw from this MOU by providing thirty (30) days written notice to the other Parties as provided in Paragraph 8.

b. Additional Participating Entities may be added to this MOU by the Steering Committee. Such additional Participating Entities may or may not (1) be parties to the Nonfederal Participating Entities Cost-Share Agreement, or (2) participate in the Steering Committee.

8. ADDRESSES FOR COMMUNICATIONS:

a. All notices and communications under this MOU shall be addressed to the contacts set forth in Exhibit A. In the event Participating Entities are added to this MOU by the Steering Committee as described in Subparagraph 7(b), the Authorized Representatives shall update Exhibit A accordingly and distribute the updated Exhibit A to all of the Parties.

b. The Parties may change the addressee or address to which communications or copies are to be sent by giving notice of such change of addressee.

[signatures on the following pages]

9. SIGNATURES:

IN WITNESS WHEREOF, this MOU was executed by the Parties on the date first hereinabove written.

SALT RIVER VALLEY WATER USERS' ASSOCIATION

By: _____

Name: David C. Roberts

Title: Associate General Manager
Water Resources

APPROVED AS TO FORM

By: _____

Name: Patrick B. Sigl

Title: Supervising Attorney, Environment, Land & Water Rights

SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND POWER DISTRICT

By: _____

Name: David C. Roberts

Title: Associate General Manager
Water Resources

APPROVED AS TO FORM

By: _____

Name: Patrick B. Sigl

Title: Supervising Attorney, Environment, Land & Water Rights

ARIZONA WATER COMPANY

By: _____
Name:
Title:

APPROVED AS TO FORM

By: _____
Name:
Title:

BUCKEYE WATER CONSERVATION AND
DRAINAGE DISTRICT

By: _____
Name:
Title:

APPROVED AS TO FORM

By: _____
Name:
Title:

CENTRAL ARIZONA GROUNDWATER
REPLENISHMENT DISTRICT

By: _____
Name:
Title:

APPROVED AS TO FORM

By: _____
Name:
Title:

CITY OF APACHE JUNCTION

By: _____
Name:
Title:

APPROVED AS TO FORM

By: _____
Name:
Title:

CITY OF AVONDALE

By: _____
Name:
Title:

APPROVED AS TO FORM

By: _____
Name:
Title:

CITY OF BUCKEYE, an Arizona municipal Corporation,

By: _____

Name: Eric W. Orsborn
Title: Mayor

ATTEST

_____

Name: Lucinda J. Aja
Title: City Clerk

APPROVED AS TO FORM:

_____

Name: Shiela B. Schmidt
Title: City Attorney

CITY OF CHANDLER

By: _____
Name:
Title:

APPROVED AS TO FORM

By: _____
Name:
Title:

TOWN OF GILBERT

By: _____
Name:
Title:

APPROVED AS TO FORM

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CITY OF EL MIRAGE

By: _____
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APPROVED AS TO FORM

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CITY OF GLENDALE

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CITY OF GOODYEAR

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CITY OF MESA

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CITY OF PEORIA

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CITY OF PHOENIX

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CITY OF SCOTTSDALE

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CITY OF SURPRISE

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APPROVED AS TO FORM

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Name:
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CITY OF TEMPE

By: _____
Name:
Title:

APPROVED AS TO FORM

By: _____
Name:
Title:

EPCOR USA, INC.

By: _____
Name:
Title:

APPROVED AS TO FORM

By: _____
Name:
Title:

FORT MCDOWELL YAVAPAI NATION

By: _____
Name:
Title:

APPROVED AS TO FORM

By: _____
Name:
Title:

ROOSEVELT WATER CONSERVATION DISTRICT

By: _____
Name:
Title:

APPROVED AS TO FORM

By: _____
Name:
Title:

TOWN OF QUEEN CREEK

By: _____
Name:
Title:

APPROVED AS TO FORM

By: _____
Name:
Title:

MEMORANDUM OF UNDERSTANDING

TO SUPPORT THE BARTLETT DAM MODIFICATION FEASIBILITY STUDY

AMONG VARIOUS PARTICIPATING ENTITIES,

SALT RIVER VALLEY WATER USERS' ASSOCIATION,

AND

SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND POWER DISTRICT

Exhibit A

Contact List

Arizona Water Company	Buckeye Water Conservation and Drainage District
Central Arizona Groundwater Replenishment District	City of Apache Junction
City of Avondale	Town of Gilbert
City of Buckeye	City of Chandler
City of El Mirage	City of Glendale
City of Goodyear	City of Mesa
City of Peoria	City of Phoenix
City of Scottsdale	City of Surprise
City of Tempe	EPCOR USA, Inc.
Fort McDowell Yavapai Nation	Roosevelt Water Conservation District
Town of Queen Creek	

MEMORANDUM OF UNDERSTANDING

TO SUPPORT THE BARTLETT DAM MODIFICATION FEASIBILITY STUDY

AMONG VARIOUS PARTICIPATING ENTITIES,

SALT RIVER VALLEY WATER USERS' ASSOCIATION,

AND

SALT RIVER PROJECT AGRICULTURAL IMPROVEMENT AND POWER DISTRICT

Mailing Addresses

If to SRP:

Salt River Project
c/o Corporate Secretary
P.O. Box 52025
Phoenix, AZ 85072-2205

with a copy to:

Ronald J. Klawitter
Water System Projects Principal
Salt River Project
P.O. Box 52025
Phoenix, AZ 85072-2205

If to Arizona Water Company:

Arizona Water Company
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

If to Buckeye Water Conservation and Drainage District:

Buckeye Water Conservation and Drainage District
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

If to Central Arizona Groundwater Replenishment District:

Central Arizona Groundwater Replenishment District
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

If to City of Apache Junction:

City of Apache Junction
c/o _____
_____
_____

with a copy to:

_____
_____
_____

If to City of Avondale:

City of Avondale
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

If to City of Buckeye:

City of Buckeye
Attention: Alisha Solano, Water Resources Director
21749 West Yuma Road, Suite 107
Buckeye, AZ 85326

with a copy to:

Shiela B. Schmidt, City Attorney
Gust Rosenfeld
1 East Washington, Suite 1600
Phoenix, AZ 85004
sschmidt@gustlaw.com

If to City of Chandler:

City of Chandler
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

If to Town of Gilbert:

Town of Gilbert
c/o _____
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_____

with a copy to:

_____
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_____

If to City of El Mirage:

City of El Mirage
c/o _____
_____
_____

with a copy to:

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_____

If to City of Glendale:

City of Glendale
c/o _____
_____
_____

with a copy to:

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If to City of Goodyear:

City of Goodyear
c/o _____
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with a copy to:

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If to City of Mesa:

City of Mesa
c/o _____
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with a copy to:

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If to City of Peoria:

City of Peoria
c/o _____
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with a copy to:

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_____

If to City of Phoenix:

City of Phoenix
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

If to City of Scottsdale:

City of Scottsdale
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

If to City of Surprise:

City of Surprise
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

If to City of Tempe:

City of Tempe
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

If to EPCOR USA, Inc.:

EPCOR USA, Inc
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

If to FORT MCDOWELL YAVAPAI NATION:

FORT MCDOWELL YAVAPAI NATION
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

If to ROOSEVELT WATER CONSERVATION DISTRICT:

ROOSEVELT WATER CONSERVATION DISTRICT
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

If to TOWN OF QUEEN CREEK:

TOWN OF QUEEN CREEK
c/o _____
_____
_____

with a copy to:

_____
_____
_____
_____

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 7.D. Jackrabbit Crossing public infrastructure reimbursement agreement
DATE PREPARED: 08/12/21	**DISTRICT NO.:** 6
STAFF LIAISON: Scott Zipprich, City Engineer, szipprich@buckeyeaz.gov, (623) 349-6217	
DEPARTMENT: Engineering	**AGENDA ITEM TYPE:** Public Hearing / Non Consent - New Business

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Council to take action on Resolution No. 56-21 approving the Public Infrastructure Reimbursement Agreement between the City of Buckeye and Circle Road Capital, LLC, an Arizona limited liability company; and authorizing the Mayor to execute and deliver said Agreement.

RELEVANT GOALS:
GOAL 4: Adequate, Well-Maintained and Well-Planned Public Infrastructure

ADDITIONAL RELEVANT GOALS:
GOAL 2: Enhanced Economic Well-Being and Vitality

SUMMARY

PROJECT DESCRIPTION:
Circle Road Capital, LLC agrees to design, engineer, permit, construct and install the following regional public infrastructure improvements; (1) the addition of a third eastbound lane on Indian School Road running the length of the Land along the northern boundary of the Land and (2) the addition of a second eastbound left turn lane on Indian School Road. Owner shall begin construction of the infrastructure no later than January 3, 2022 and be completed no later than December 21, 2022. Owner acknowledges and agrees that reimbursement of infrastructure will be following the city's acceptance of the infrastructure and conveyance of the infrastructure to the city and subject to the terms and conditions of the agreement. The infrastructure reimbursement amount applies to the regional public infrastructure improvements only, as outlined above, and shall not exceed $417,723.

BENEFITS:
The public infrastructure to be constructed and installed by Owner, while necessary to serve development within the commercial/retail center, also include certain improvements that are of regional benefit to the City and its residents.

FUTURE ACTION:
None

CURRENT FISCAL YEAR TOTAL COST:
Reimbursement amount is not to exceed $417,723 to be paid out in FY22/23 at such time that the terms of the agreement have been met.

BUDGETED:
No

FISCAL YEAR:
FY22/23

Items related to a project or facility location must include an attached vicinity map for Council Review.
ATTACHMENTS:
RES 56-21 Jackrabbit Crossing Infrastructure Reimbursement Agreement.pdf
Public Infrastructure Reimbursement Agreement.Jackrabbit Crossing.PDF

RESOLUTION NO. 56-21

A RESOLUTION OF THE MAYOR AND CITY COUNCIL OF THE CITY OF BUCKEYE, ARIZONA, APPROVING THE PUBLIC INFRASTRUCTURE REIMBURSEMENT AGREEMENT BETWEEN THE CITY OF BUCKEYE AND CIRCLE ROAD CAPITAL, LLC; AND AUTHORIZING THE MAYOR TO EXECUTE AND DELIVER SAID AGREEMENT.

WHEREAS, the City of Buckeye, an Arizona municipal corporation ("Buckeye") and Circle Road Capital, LLC, an Arizona limited liability company ("Circle Road") (collectively, the "Parties") desire to enter into a Public Infrastructure Reimbursement Agreement (the "Agreement"), to provide for public improvements as a phased commercial/retail project; and

WHEREAS, the Parties desire to facilitate the proper development of certain real property located in Buckeye by providing for, among other things: (i) conditions, terms, restrictions and requirements for public infrastructure and subsequent reimbursements over time and (ii) other matters related directly or indirectly to the development of the real property.

BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF BUCKEYE, ARIZONA, as follows:

Section 1. The Agreement to, among other things, (i) conditions, terms, restrictions and requirements for public infrastructure and subsequent reimbursements over time and (ii) other matters related directly or indirectly to the development of the real property pursuant to the conditions set forth in the Agreement, is hereby approved in substantially the form and substance on file with the City Clerk and incorporated herein by reference.

Section 2. The Mayor, the City Clerk and the City Attorney are hereby authorized and directed to take all steps necessary to cause the execution and delivery of the Agreement and to take all steps necessary to carry out the purpose and intent of this Resolution.

PASSED AND ADOPTED by the Mayor and City Council of the City of Buckeye, Arizona, this 17th day of August, 2021.

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda J. Aja, City Clerk

APPROVED AS TO FORM:

_____
Shiela B. Schmidt, City Attorney

SBS:ddh 4199685.1 8/2/2021

1605

WHEN RECORDED, RETURN TO:

City of Buckeye
Attention: City Clerk, Lucinda J. Aja
530 East Monroe Avenue
Buckeye, Arizona 85326

PUBLIC INFRASTRUCTURE REIMBURSEMENT AGREEMENT

BETWEEN

THE CITY OF BUCKEYE

AND

CIRCLE ROAD CAPITAL, LLC, an Arizona limited liability company

DATED AUGUST 17, 2021

PUBLIC INFRASTRUCTURE REIMBURSEMENT AGREEMENT

1. Date. The date of this Public Infrastructure Reimbursement Agreement ("***Agreement***") is August 17, 2021.

2. Parties. The parties to this Agreement are:

(a) CITY OF BUCKEYE, ARIZONA
Attention: Roger Klingler, City Manager
530 East Monroe Avenue
Buckeye, Arizona 85326

("***City***")

(b) CIRCLE ROAD CAPITAL, LLC
Attention: David L. Bruner, Manager
5134 North Central Avenue, Suite 200
Phoenix, AZ 85012

("***Owner***")

3. Background. The following is the background to this Agreement:

(a) Owner is the owner of certain real property located in the City of Buckeye, Arizona and consisting of approximately 14.82 acres as legally described in the attached **Exhibit A** and depicted in the attached **Exhibit B** (the "***Land***").

(b) Owner intends to develop the Land as a phased commercial/retail project.

(c) Owner is required by City Code, including the City Development Code, to construct and install, at no cost to the City, the public infrastructure necessary for the City to provide municipal services to the Land.

(d) Owner and the City are entering into this Agreement pursuant to the provisions of Arizona Revised Statutes ("***A.R.S.***") § 9-500.05 to facilitate the proper development of the Land by providing for, among other things: (i) conditions, terms, restrictions and requirements for public infrastructure and subsequent reimbursements over time and (ii) other matters related directly or indirectly to the development of the Land.

(e) Among other things, development of the Land will result in the planning, design, engineering, construction, acquisition, installation, and/or provision of public infrastructure that will support development of the Land.

(f) The public infrastructure to be constructed and installed by Owner pursuant to City Code requirements, while necessary to serve development within the Land, also include certain improvements that are of regional benefit to the City and its residents that would not otherwise be required of Owner in connection with development of the Land. Given the

regional significance of such public infrastructure as identified in this Agreement, the City is willing to reimburse Owner subject to the terms and conditions as set forth in this Agreement.

(g) Notwithstanding the regional improvements and potential reimbursement therefor as set forth in this Agreement, Owner acknowledges that the Owner or its successor(s) or assign(s) is required to construct the public infrastructure improvements necessary for the development of the Land.

4. Agreement. For good and valuable consideration, including the benefits to City and Owner as described above, City and Owner agree as is more specifically set forth in this Agreement.

5. Laws and Regulations.

(a) The City of Buckeye Code, including but not limited to that portion titled the "***Development Code***", each as amended from time to time, shall govern the development of the Land. The City must be able to regulate the planning and development of the Land and the construction and installation of public infrastructure on the Land in order to serve the best interests of the City. Consequently, City reserves, exercising its sole and absolute discretion, the right to amend existing or to adopt new laws, rules, regulations and standards of development for the City, including resolutions, official policies and procedures and the Development Code (collectively, as amended or adopted from time to time, the "***Laws and Regulations***"), and the Laws and Regulations shall apply to the Land.

(b) Any change to the Laws and Regulations as allowed in this section shall not discriminate against Owner and the Land, and any change shall be uniformly applied to all similar land and landowners at such time such land is within the boundaries of City.

6. Regional Improvements to be Constructed by Owner.

(a) Owner agrees to design, engineer, permit, construct and install the regional public infrastructure that is the subject of this Agreement, which shall include, without limitation, the following: (i) the addition of a third eastbound lane on Indian School Road running the length of the Land along the northern boundary of the Land, and (ii) the addition of a second eastbound left turn lane on Indian School Road (collectively, the "***Infrastructure***"). The Infrastructure is more particularly described on **Exhibit C** attached hereto and incorporated by this reference. Owner shall commence construction of the Infrastructure no later than January 3, 2022, and construction and installation of the Infrastructure shall be completed by Owner no later than December 31, 2022. Because the Infrastructure has not been constructed or installed at the time of entering into this Agreement, Owner has provided the City with Owner's engineer's estimate of costs for construction and installation of the Infrastructure is attached as **Exhibit D** to this Agreement and incorporated herein by reference. Owner acknowledges and agrees that reimbursement to Owner by the City for the Infrastructure, following City acceptance of the Infrastructure and conveyance of the Infrastructure to the City and subject to the terms and conditions of this Agreement, shall not exceed the total amount of Four Hundred Seventeen Thousand Seven Hundred Twenty-three and No/100 Dollars ($417,723.00) (the "***Infrastructure Reimbursement Amount***").

(b) Owner specifically acknowledges and agrees that the construction of the Infrastructure subject to reimbursement from the City as provided in this Agreement shall be publicly procured pursuant to A.R.S. Title 34, as amended, and in accordance with the procurement code and policies of the City.

(c) In the event Owner does not commence construction of the Infrastructure by January 3, 2022, this Agreement shall automatically terminate as to the Land without the necessity of any notice, agreement or recording by and between the parties. If Owner commenced construction of the Infrastructure by January 3, 2022 but construction of the Infrastructure is not completed in accordance with City requirements and approved plans by December 31, 2022, this Agreement shall automatically terminate as to the Land without the necessity of any notice, agreement or recording by and between the parties. In the event of documented and valid business reasons resulting in delays and the inability for Owner to meet the dates construction commencement and completion dates, the City Manager shall have the authority to administratively extend these deadlines for up to one additional year; extensions beyond one year shall require an amendment to this Agreement and the approval of the City Council.

(d) The design, construction and installation of the Infrastructure shall be in conformance with plans and specifications (the "***Technical Specifications***") submitted to the City for its review and approval in its sole and absolute discretion, and shall be subject to and in compliance with the Laws and Regulations. Owner acknowledges and agrees that the Technical Specifications may be modified by the City from time to time in order to comply with the Laws and Regulations or to enhance operating efficiency. Any modification by the City to the Technical Specifications shall not be applied retroactively to any Infrastructure Improvements to the extent the City has already granted approval based on prior Technical Specifications and Owner has materially and substantially acted on such approval.

(e) Owner shall give to City a two year warranty for all Infrastructure, which warranty shall begin on the date that City accepts the Infrastructure. Any material deficiencies in material or workmanship identified by City's staff during the two-year warranty period shall be brought to the attention of Owner, who shall promptly remedy or cause to be remedied such deficiencies to the reasonable satisfaction of City's staff. Continuing material deficiencies in a particular portion of the Infrastructure shall be sufficient grounds for City to require (i) an extension of the warranty for an additional two year period or, (ii) the proper repair of, or (iii) the removal and reinstallation of that portion of the Infrastructure that is subject to such continuing deficiencies. Regardless of whether the two year warranty period has expired, the Owner agrees to repair any damage to the Infrastructure caused by Owner's construction activities on the Land. Nothing contained herein shall prevent the City or Owner from seeking recourse against any other third party for damage to the Infrastructure caused by such third party. In addition to the two-year warranty provided above, for a period of five years from the date that the City accepts the Infrastructure, in the event the Infrastructure do not perform to their rated production or treatment capabilities, for reasons other than normal wear and tear, Owner shall make City-approved corrections or additions to the Infrastructure as may be necessary to achieve the rated production or treatment capabilities.

(f) Owner shall maintain and repair all Infrastructure comprised of streets, parkways, alleys curbs, gutters, sidewalks and all appurtenances thereto at its expense, for a period of two (2) years from the date the City accepts the Infrastructure. Such maintenance shall consist of all maintenance and repair actions reasonably required by customary engineering industry standards for each item of the Infrastructure.

7. Infrastructure Reimbursement.

(a) Reimbursement of the Infrastructure Reimbursement Amount is subject to the terms and conditions of this Agreement.

(b) Completion of Construction and Installation of Infrastructure; Verified Costs. Owner shall, within sixty (60) days of written acceptance of the Infrastructure from the City, furnish the City with: (a) copies of all bills, invoices and other statements of expenses incurred by Owner, covering all of the costs of eligible services, materials, equipment, supplies, construction and installation of the Infrastructure; and (b) lien waivers and releases from contractors, subcontractors, consultants and vendors for services, materials, equipment, supplies and construction included in the Infrastructure; and (c) receipts, specifying exact amount of payments in full by Owner to all contractors, subcontractors, consultants and vendors for all services, materials, equipment, supplies, labor and other costs of construction of the Regional Improvements; and (d) as-built drawings certified as to correctness by an engineer registered in the State of Arizona and showing the locations, materials and other information as required by the City Engineer; and (e) any other reasonable information required by the City to verify the actual costs of construction of the Infrastructure. The City's written, signed and dated verification of the actual costs of construction of the Infrastructure shall hereinafter collectively be referred to as the "***Verified Costs***".

(c) The City's payment of the Infrastructure Reimbursement Amount to Owner shall be based on the City's Verified Costs and the actual amount verified by the City; provided however, that in no event shall the Infrastructure Reimbursement Amount exceed the total amount of Four Hundred Seventeen Thousand Seven Hundred Twenty-three and No/100 Dollars ($417,723.00). Payment will be made to Owner by the City within thirty (30) days following the City's determination of the Verified Costs.

(d) The obligations of the City under this Section 7 do not constitute an obligation to levy or pledge any form of taxation nor does the obligation constitute an indebtedness of the City or the State, or any of its political subdivisions, within the meaning of the constitution of the State of Arizona.

8. Conflicts of Interest. The parties acknowledge that this Agreement is subject to cancellation pursuant to Section 38-511, Arizona Revised Statutes, as amended.

9. Covenants Running with the Land. The provisions of this Agreement shall be for the benefit of, and shall be a burden upon, the Land, and the provisions of this Agreement

shall be covenants running with the Land, without the necessity of an assignment of this Agreement with the conveyance of any part of the Land.

10. Indemnity. Owner (or its successors or assigns) shall indemnify, defend and hold harmless the City and each council member, officer, official or employee thereof (the City and any such person being herein called an "***Indemnified Party***"), for, from and against any and all losses, claims, damages, liabilities costs and expenses (including reasonable attorneys' fees) to which any such Indemnified Party may become subject, at law or in equity or otherwise ("***Claims***"), insofar as such Claims (or actions in respect thereof) arise out of or are based upon any provisions of this Agreement, except for those Claims which have been adjudicated to be caused by the City's gross negligence or intentional misconduct.

11. Dispute Resolution. The parties shall be limited to the remedies and dispute resolution process set forth in **Exhibit E** attached hereto concerning any dispute, controversy, claim, or cause of action arising out of or relating to this Agreement. The parties agree that any award rendered by the arbitrator (as defined in **Exhibit E**) pursuant to the provisions of **Exhibit E** shall be binding on all parties, and if a party does not abide by the award rendered by the arbitrator, the provisions of **Exhibit E** shall apply.

12. Term. Subject to Section 6(c) of this Agreement, this Agreement shall automatically terminate as to the Land without the necessity of any notice, agreement or recording by and between the parties two (2) years after the date of this Agreement. Upon the termination of this Agreement, neither party shall have any further obligations under this Agreement. However, such termination shall not affect any approval, permit, subdivision map or site plan that has been given, issued or approved by City for any part of the Land as of the date of such termination.

13. No Agency or Partnership. Neither City nor Owner are acting as the agent of the other with respect to this Agreement, and this Agreement shall not be deemed to create a partnership, joint venture or other business relationship between City and Owner.

14. No Third Party Beneficiary. This Agreement shall not create any third party beneficiary rights to any person or entity who is not a party to this Agreement, including any lender to the Owner, unless expressly provided to the contrary in this Agreement (and then only to the extent so provided).

15. Recording. City shall record this Agreement with the County Recorder no later than ten (10) days after the last party to execute this Agreement.

16. Time of Essence. Time is of the essence of this Agreement.

17. Benefit and Binding Effect. This Agreement shall be for the benefit of and binding upon the parties hereto and their successors and assigns.

18. Waiver of Claims. The Owner on behalf of itself and all other parties having an interest in the Land intends to encumber the Land with the following agreements and waivers. Owner agrees and consents to all the conditions imposed by this Agreement, and by signing this Agreement waives any and all claims, suits, damages, compensation and causes of action for

diminution in value of the Land the owner of the Land may have now or in the future under the provisions of A.R.S. Sections 12-1134 through and including 12-1136 resulting from this Agreement or from any "land use law" (as such term is defined in the aforementioned statute sections) expressly permitted or contemplated by this Agreement to be enacted, adopted or applied by the City now or hereafter. Owner acknowledges and agrees the terms and conditions set forth in this Agreement cause an increase in the fair market value of the Land and such increase exceeds any possible reduction in the fair market value of the Land caused by any future land use laws, rules, ordinances, resolutions or actions expressly permitted or contemplated by this Agreement and adopted or applied by the City to the Land.

19. **Amendment**. Any amendment to this Agreement shall be in writing.

20. **Notices.** All notices, requests, waivers, approvals, acceptances or other communications under this Agreement shall be in writing and shall be deemed given when personally delivered or transmitted by facsimile or two days after mailing by certified mail, return receipt requested and postage prepaid, to the addresses or facsimile numbers set forth below:

(a)	For City:	Roger Klingler, City Manager City of Buckeye 530 East Monroe Avenue Buckeye, Arizona 85326
	With a copy to:	Shiela B. Schmidt, Esq., City Attorney Gust Rosenfeld PLC One East Washington Street, Suite 1600 Phoenix, Arizona 85004 Email: sschmidt@gustlaw.com
(b)	Owner	David L. Bruner, Manager Circle Road Capital, LLC 5134 North Central Avenue, Suite 200 Phoenix, AZ 85012

No notice to a party shall be effective unless and until a copy of such notice is given to, or as appropriate, received by, all persons indicated above as entitled to receive required copies of notices to that party. The above described recipients of notices may change their address for notice purposes by giving the other parties notice of such change, provided, however, that no such change in notice shall be effective for a period of ten (10) days following such notice of such change. The inability to deliver because of a changed address of which no notice was given, or rejection or other refusal to accept any notice, shall be deemed to be the receipt of the notice as of the date of such inability to deliver or rejection or refusal to accept. Any notice to be given by any party hereto may be given by legal counsel for such party.

21. **Force Majeure.** The performance of either party and the duration of this Agreement shall be extended by any causes that are beyond the control of the party required to perform, such as an act of God, civil or military disturbance and labor or material shortage.

22. **Governing Law.** This Agreement shall be governed by and construed under the laws of the state of Arizona, and any litigation shall take place only in Maricopa County, Arizona.

23. **Attorneys Fees.** The prevailing party in any litigation in connection with this Agreement shall be entitled to its attorneys' fees and costs.

24. **No Waiver.** No delay in exercising any right or remedy shall constitute a waiver thereof, and no waiver by the City or Owner of the breach of any covenant of this Agreement shall be construed as a waiver of any preceding or succeeding breach of the same or any other covenant or condition of this Agreement.

25. **Severability**. If any provision of this Agreement is declared void or unenforceable by a court of competent jurisdiction, such provision shall be severed from this Agreement, which shall otherwise remain in full force and effect if the remaining provisions permit the parties to achieve the practical and proportional benefits and obligations of the arrangements contemplated by this Agreement. Otherwise, either party may terminate this Agreement.

26. **Exhibits; Merger**. This Agreement, together with **Exhibits A** through **Exhibit E** listed below, attached hereto and incorporated herein by this reference, constitute the entire agreement between the parties with respect to construction of the Infrastructure as set forth in this Agreement. All prior contemporaneous agreements, representations and understandings of the parties, oral or written, with respect thereto are hereby superseded and merged herein.

Exhibit A	Legal Description of the Land
Exhibit B	Depiction of the Land
Exhibit C	Description of Improvements
Exhibit D	Owner's Engineer's Estimate of Cost of Infrastructure
Exhibit E	Dispute Resolution

27. **Representations and Warranties.** As of the date of the execution of this Agreement, the parties represent and warrant to each other as follows:

(a) **By Owner:**

(i) Owner is a corporation or limited liability company duly formed and in good standing in its State of incorporation or formation and duly qualified to do business in Arizona.

(ii) Owner holds fee title to the Land and has the authority, including the person signing for Owner, and the right to enter into this Agreement as authorized by the board of directors or members of the Owner at duly noticed meetings at which quorums were present.

(iii) Owner is not prohibited from executing this Agreement by any law, rule, regulation, instrument, agreement, order or judgment.

(iv) Owner has not relied on any representations or warranties of the City other than those expressly set forth in this Agreement.

(b) **By City:** This Agreement was approved at a duly noticed and held public meeting by the Mayor and City Council, at which a quorum was present and the execution of this Agreement was authorized.

28. **Counterpart Signature.** This Agreement may be executed in counterpart, each of which shall be deemed an original, and all of which combined shall constitute one and the same instrument.

29. **Signature.** The parties have executed this Agreement on the date set forth below.

[SIGNATURES ON FOLLOWING PAGES]

CITY OF BUCKEYE, ARIZONA, an Arizona municipal corporation

_____
Eric W. Orsborn, Mayor

ATTEST:

_____
Lucinda J. Aja, City Clerk

APPROVED AS TO FORM:

_____
Shiela B. Schmidt, City Attorney

STATE OF ARIZONA
COUNTY OF MARICOPA

On this _____ day of _____, 20___, before me personally appeared Eric W. Orsborn, Mayor of the CITY OF BUCKEYE, ARIZONA, whose identity was proven to me on the basis of satisfactory evidence to be the person who he claims to be, and acknowledged that he signed this Public Infrastructure Reimbursement Agreement on behalf of the City.

I certify under PENALTY OF PERJURY under the laws of the State of Arizona that the foregoing paragraph is true and correct.

(Seal and Expiration Date)

_____
Notary Public in and for the State of Arizona

CIRCLE ROAD CAPITAL, LLC, an Arizona limited liability company

By: David L. Bruner
Name: David L. Bruner
Its: Manager

STATE OF ARIZONA
COUNTY OF MARICOPA

On this 5 day of August, 2021, before me personally appeared David L. Bruner, the Manager of CIRCLE ROAD CAPITAL, LLC, an Arizona limited liability company, whose identity was proven to me on the basis of satisfactory evidence to be the person who he or she claims to be, and acknowledged that he/she signed this Public Infrastructure Reimbursement Agreement on behalf of Circle Road Capital, LLC.

I certify under PENALTY OF PERJURY under the laws of the State of Arizona that the foregoing paragraph is true and correct.

(Seal and Expiration Date) 10/17/24

CELENA TICE
Notary Public - Arizona
Maricopa County
Commission # 591478
My Comm. Expires Oct 17, 2024

Celena Tice
Notary Public in and for the State of Arizona

SBS:sbs 4180912.5 7/29/2021

EXHIBIT A
TO
PUBLIC INFRASTRUCTURE
REIMBURSEMENT AGREEMENT
BETWEEN
THE CITY OF BUCKEYE
AND
CIRCLE ROAD CAPITAL, LLC

[Legal Description of Land]

See following page(s).

EXHIBIT "A"

Wood, Patel & Associates, Inc.
602.335.8500
www.woodpatel.com

June 29, 2021
WP# 164455.23

See Exhibit "B"

LEGAL DESCRIPTION
Jackrabbit Trail and Indian School Road
Net Boundary

A portion of that certain parcel of land recorded in Document 2012-1028920, Maricopa County Records (MCR), lying within Section 29, Township 2 North, Range 2 West, of the Gila and Salt River Meridian, Maricopa County, Arizona, more particularly described as follows:

COMMENCING at the northeast corner of said Section 29, a 3-inch Maricopa County Department of Transportation (MCDOT) brass cap in handhole, from which the north quarter corner of said section, a 3-inch MCDOT brass cap flush, bears South 89°56'47" West (basis of bearing), a distance of 2649.86 feet;
THENCE along the north line of said section, South 89°56'47" West, a distance of 194.00 feet;
THENCE leaving said north line, South 00°03'04" East, a distance of 75.00 feet, to the east line of said certain parcel of land and the **POINT OF BEGINNING**;
THENCE along said east line, South 00°03'04" East, a distance of 670.25 feet, to the southeast corner of said certain parcel of land;
THENCE leaving said east line, along the south line of said certain parcel of land, South 89°56'47" West, a distance of 960.75 feet, to the southwest corner of said certain parcel of land;
THENCE leaving said south line, along the west line of said certain parcel of land, North 00°03'04" West, a distance of 675.25 feet;
THENCE leaving said west line, North 89°56'47" East, a distance of 213.66 feet;
THENCE South 45°01'37" East, a distance of 35.34 feet;
THENCE North 89°56'47" East, a distance of 73.12 feet;
THENCE North 44°40'55" East, a distance of 35.19 feet;
THENCE North 89°56'47" East, a distance of 463.22 feet;
THENCE South 00°03'32" East, a distance of 5.00 feet;

Legal Description
Jackrabbit Trail and Indian School Road
Net Boundary

June 29, 2021
WP# 164455.23

See Exhibit "B"

THENCE North 89°56'47" East, a distance of 161.00 feet, to the **POINT OF BEGINNING**.

Containing 645,492 square feet or 14.8184 acres, more or less.

Subject to existing right-of-ways and easements.

This parcel description is based on client provided information and is located within an area surveyed by Wood, Patel & Associates, Inc. during the month of August, 2019. Any monumentation noted in this parcel description is within acceptable tolerance (as defined in Arizona Boundary Survey Minimum Standards dated 02/14/2002) of said positions based on said survey.

Y:\WP\Parcel Descriptions\2016\164455 Jackrabbit Tr & Indian School Rd Net Boundary L04 06-29-21.docx

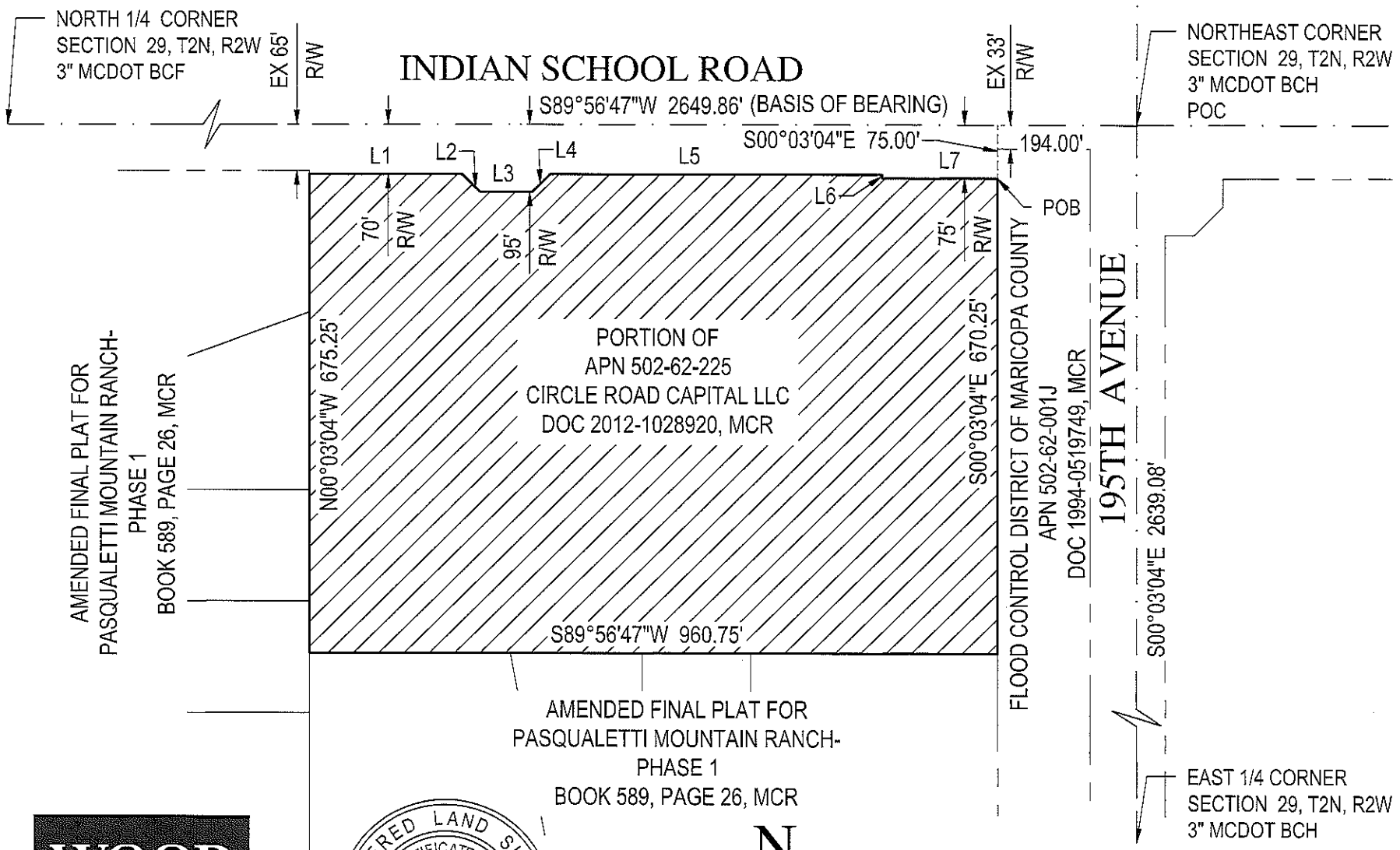


EXPIRES 12-31-23

EXHIBIT B
TO
PUBLIC INFRASTRUCTURE
REIMBURSEMENT AGREEMENT
BETWEEN
THE CITY OF BUCKEYE
AND
CIRCLE ROAD CAPITAL, LLC

[Depiction of Land]

See following page(s).



WOOD PATEL

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
48932
GABRIEL S.
RIOS
Date Signed 06-29-21
ARIZONA, U.S.A.

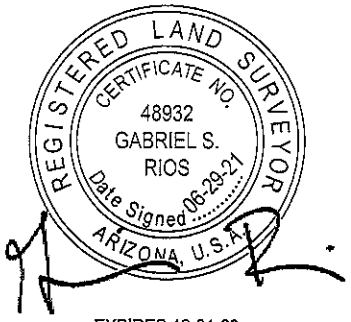
EXPIRES 12-31-23

EXHIBIT "B"

JACKRABBIT TRAIL AND INDIAN SCHOOL ROAD
NET BOUNDARY
6/29/2021
WP# 164455.23
PAGE 3 OF 4
NOT TO SCALE
N:\2016\164455\Survey\Legal\4455-L04.dwg

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N89°56'47"E	213.66'
L2	S45°01'37"E	35.34'
L3	N89°56'47"E	73.12'
L4	N44°40'55"E	35.19'
L5	N89°56'47"E	463.22'
L6	S00°03'32"E	5.00'
L7	N89°56'47"E	161.00'

WOOD PATEL



EXPIRES 12-31-23

EXHIBIT "B"

JACKRABBIT TRAIL AND INDIAN SCHOOL ROAD
NET BOUNDARY
6/29/2021
WP# 164455.23
PAGE 4 OF 4
NOT TO SCALE
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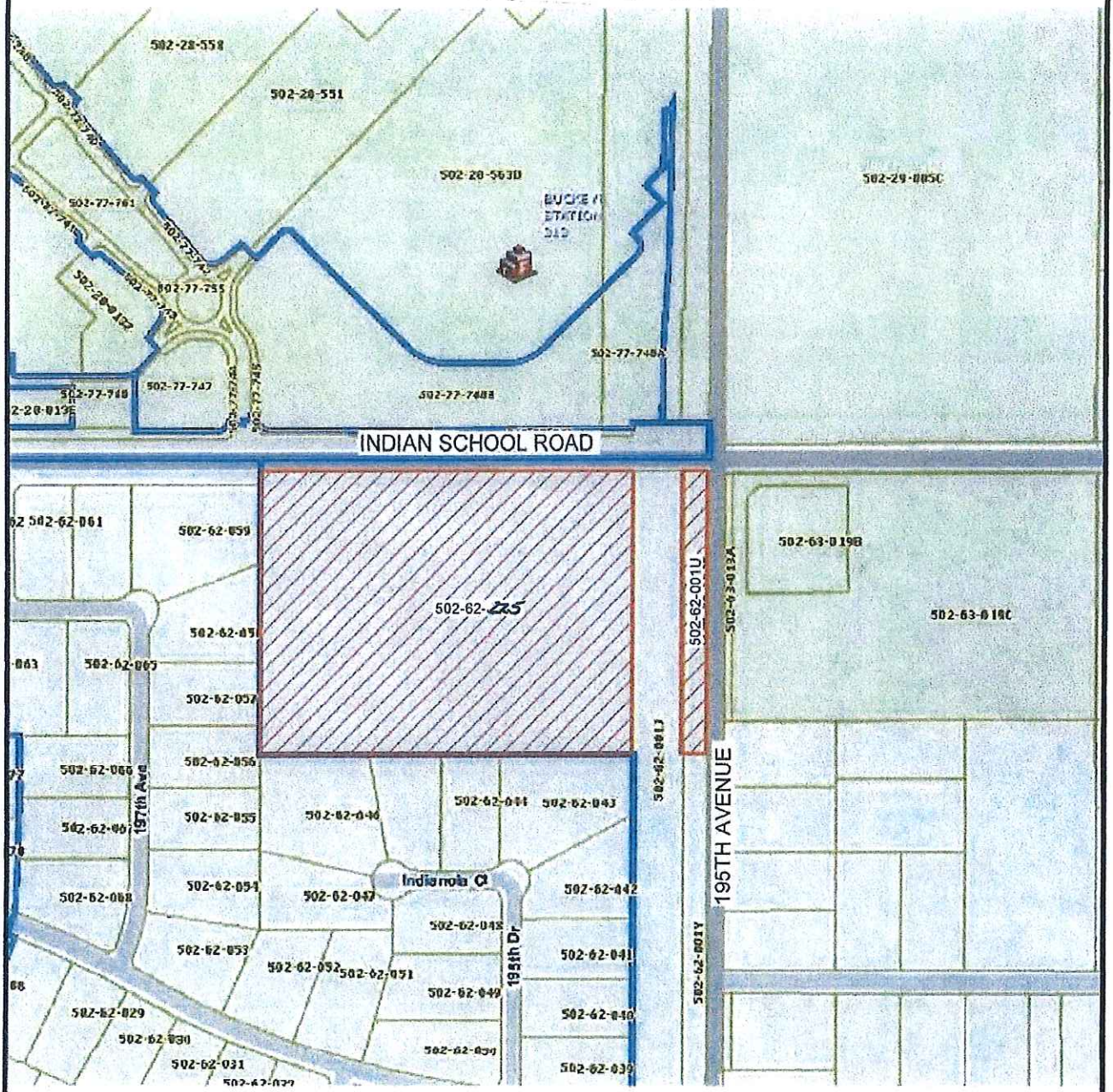
TOWNSHIP 2N RANGE 2W SECTION 29
BOOK 502 MAP 62
PARCEL 225

NORTH
NOT TO SCALE



LEGEND:

▨ : PROPERTY

MARICOPA COUNTY ASSESSOR'S MAP

Approximately 16.8 Acres of Vacant Desert Land
SWC of Indian School Road and 195th Avenue
Maricopa County, Arizona

WT Job No. 2182JC317

EXHIBIT C
TO
PUBLIC INFRASTRUCTURE
REIMBURSEMENT AGREEMENT
BETWEEN
THE CITY OF BUCKEYE
AND
CIRCLE ROAD CAPITAL, LLC

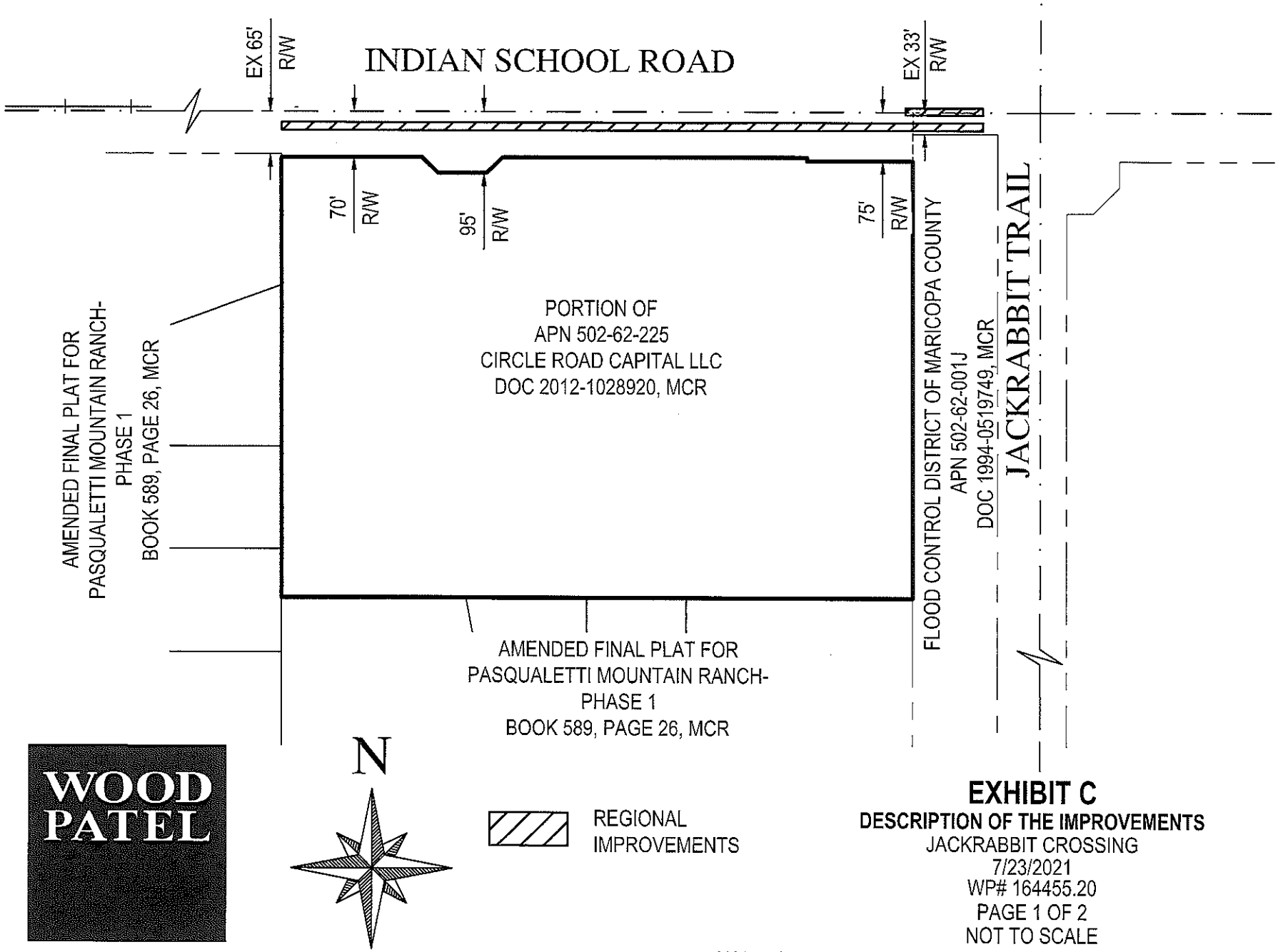
[Description of Infrastructure]

See following page(s).

Description of Public Improvements

Improvement #1: The improvement of Indian School Road east bound lane with a 3rd travel lane (the middle of three lanes) from approximately 1,340 west of the corner of 195th Avenue (North Jackrabbit Trail) to the corner of 195th Avenue (North Jackrabbit Trail). New improvements shall entail (but are not limited to) new grading, foundation and asphalt paving, along with prorate share of saw cutting, utility adjustments, signage and striping and traffic control, for a 3rd travel lane. See attached Engineer's Cost Estimate for estimated improvement cost.

Improvement #2: The improvement of Indian School Road east bound with a second northbound left turn lane to 195th Avenue (North Jackrabbit Trail). New improvements shall entail (but are not limited to) new grading, foundation and asphalt paving, along with prorate share of saw cutting, utility adjustments, signage and striping and traffic control, for a 2nd left turn lane. See attached Engineer's Cost Estimate for estimated improvement cost.



WOOD PATEL

EXHIBIT C

DESCRIPTION OF THE IMPROVEMENTS

JACKRABBIT CROSSING
7/23/2021
WP# 164455.20
PAGE 1 OF 2
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EXHIBIT D
TO
PUBLIC INFRASTRUCTURE
REIMBURSEMENT AGREEMENT
BETWEEN
THE CITY OF BUCKEYE
AND
CIRCLE ROAD CAPITAL, LLC

[Owner's Engineer's Estimate of Cost of Infrastructure]

See following page(s).

WOOD PATEL & ASSOCIATES, INC.

PRELIMINARY ENGINEER'S COST ESTIMATE
JACKRABBIT CROSSING
INDIAN SCHOOL ROAD IMPROVEMENTS
EASTBOUND 3rd THROUGH LANE AND NORTHBOUND 2nd LEFT TURN LANE
6/16/2021

ITEM		DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENSION	TOTAL
1		Middle Third Lane					
	a	Demolition / Removals	1	LS	$18,000.00	$18,000.00	
	b	Clear & Grub	1	LS	$3,000.00	$3,000.00	
	c	Import in Place	3000	CY	$25.00	$75,000.00	
	d	Storm Drain (24" RGRCP)	25	LF	$117.19	$2,929.75	
	e	Catch Basins - Curb Inlet (6" Wing)	1	EA	$1,833.33	$1,833.33	
	f	Temp. Shallow Retention Basin	0	LS	$0.00	$0.00	
	g	Saw cutting	1100	LF	$1.38	$1,518.00	
	h	Subgrade Preparation	2640	SY	$0.00	$0.00	
	i	Pavement - 6" AC on 12" ABC	2640	SY	$51.97	$137,200.80	
	j	Utility Adjustments (Allowance)	1	LS	$1,800.00	$1,800.00	
	k	Signage & Striping	1	LS	$3,600.00	$3,600.00	
	l	Traffic Control	1	LS	$18,000.00	$18,000.00	
	m	Survey Staking / Layout / As-Builts	1	LS	$3,000.00	$3,000.00	
		Subtotal				$265,881.88	
	n	Contingency @ 10%				$26,588.19	
	o	General Conditions @ 12%				$31,905.83	
	p	Contractor's Fee @ 5%				$13,294.09	
	q	Bid / Payment & Performance Bonds @ 0.98%				$2,605.64	
	r	General Liability Insurance @ 0.98%				$2,605.64	
	s	Sales Tax (0.65% of combined rate) @ 6.04%				$16,059.27	
		Total					$358,940.54
2		Second Left Turn Lane					
	a	Demolition / Removals	1	LS	$3,000.00	$3,000.00	
	b	Clear & Grub	1	LS	$500.00	$500.00	
	c	Import in Place	500	CY	$25.00	$12,500.00	
	d	Storm Drain (__" RGRCP)	0	LF	$0.00	$0.00	
	e	Catch Basins - Curb Inlet (6" Wing)	0	EA	$0.00	$0.00	
	f	Temp. Shallow Retention Basin	1	LS	$0.00	$0.00	
	g	Saw cutting	200	LF	$1.38	$276.00	
	h	Subgrade Preparation	440	SY	$0.00	$0.00	
	i	Pavement - 6" AC on 12" ABC	440	SY	$51.97	$22,866.80	
	j	Utility Adjustments (Allowance)	1	LS	$300.00	$300.00	
	k	Signage & Striping	1	LS	$600.00	$600.00	
	l	Traffic Control	1	LS	$3,000.00	$3,000.00	
	m	Survey Staking / Layout / As-Builts	1	LS	$500.00	$500.00	
		Subtotal				$43,542.80	
	n	Contingency @ 10%				$4,354.28	
	o	General Conditions @ 12%				$5,225.14	
	p	Contractor's Fee @ 5%				$2,177.14	
	q	Bid / Payment & Performance Bonds @ 0.98%				$426.72	
	r	General Liability Insurance @ 0.98%				$426.72	
	s	Sales Tax (0.65% of combined rate) @ 6.04%				$2,629.99	
		Total					$58,782.78
		Grand Total					$417,723.32

EXHIBIT E
TO
PUBLIC INFRASTRUCTURE
REIMBURSEMENT AGREEMENT
BETWEEN
THE CITY OF BUCKEYE
AND
AND CIRCLE ROAD CAPITAL, LLC

[Dispute Resolution/Remedies]

A. The dispute resolution process ("***Process***") and remedies set forth herein shall not apply to an action by the City to condemn or acquire by inverse condemnation all or any portion of the Land, and in the event of any such action by the City, Owner shall have all rights and remedies available to it at law or in equity.

B. If an event of default, the non-defaulting party may institute the Process, pursuant to Paragraph C below.

C. Any controversy or claim subject to the Process shall be settled by an arbitration administered by the American Arbitration Association ("***AAA***") in accordance with its Commercial Arbitration Rules ("***Rules***") (except that the terms of this Agreement and this Exhibit shall control over conflicting rules), and judgment on the award rendered by the arbitrator may be entered in any court having jurisdiction thereof.

D. The dispute shall be heard by a single arbitrator from a panel of qualified arbitrators located within the Phoenix metropolitan area.

E. The place of arbitration shall be Phoenix, Arizona.

F. The parties agree that the remedies available for the award by the arbitrator shall be limited to specific performance and declaratory relief and that under no circumstances shall the arbitrator issue an award of monetary damages, whether characterized as actual, consequential or otherwise, provided, however, the arbitrator may award the payment of an amount owed, or enjoin the withholding of amounts due, pursuant to Sections 7 and 8 of this Agreement.

G. The parties have structured this Process with the goal of providing for the prompt and efficient resolution of all disputes falling within the purview of this Process. The hearing of any dispute shall be expedited and will commence as soon as practicable, but no later than forty-five (45) days after selection of the arbitrator. This deadline can be extended only with the consent of both parties to the dispute, or by decision of the arbitrator upon a showing of emergency circumstances.

H. The arbitrator shall determine the nature and scope of discovery, if any, and the manner of presentation of relevant evidence consistent with the deadlines provided herein, and the parties' objective that the disputes be resolved in a prompt and efficient manner. No discovery may be had of privileged materials or information. The arbitrator, upon proper application, shall issue such orders as may be necessary and permissible under law to protect confidential, proprietary, or sensitive materials or information from public disclosure or other misuse.

I. In order to effectuate the parties' goals, the hearing, once commenced, will proceed from business day to business day until concluded, absent a showing of good cause.

J. The arbitrator shall, within thirty (30) days from the conclusion of the hearing, issue the award.

K. The arbitrator may determine how the costs and expenses of the arbitration shall be allocated between the parties, and may award attorneys' fees to either party.

L. The award of the arbitrator shall be accompanied by a reasoned opinion.

M. The award of the arbitrator shall be final and binding. Except as otherwise provided in this Agreement, this Exhibit and the Commercial Arbitration Rules of the AAA, the Process shall be subject to the provisions of the Arizona Arbitration Act (A.R.S. §§ 12-1501-1518). In the event a party seeks confirmation of an award, or if there is a failure to abide by any award, either party may seek any remedy at law or equity for failure to comply with the award, but in no event shall the award be reviewed *de novo* or consequential monetary damages be ordered by the court.

CITY OF BUCKEYE
Regular Council Meeting
COUNCIL ACTION REPORT

MEETING DATE: 08/17/21	**AGENDA ITEM:** 8.A. Current City Financial Report - 4th Qtr FY20/21
DATE PREPARED: 08/12/21	**DISTRICT NO.:**
STAFF LIAISON:	
DEPARTMENT: Financial Services	**AGENDA ITEM TYPE:** Staff Reports / Discussion and Possible Direction from Council

ACTION/MOTION: (This language identifies the formal motion to be made by the Council)
Chief Financial Officer William Kauppi will provide a brief report on the City's current finances.

SUMMARY

Items related to a project or facility location must include an attached vicinity map for Council Review.

ATTACHMENTS:

FY 2020-21 Quarterly Financial Overview - Aug 17 2021.pptx
Monthly Financial Report June 2021.pdf

BUCKEYE, AZ

Year End Financial Overview

August 17, 2021



FY 2020-21 Summary of Revenues and Expenditures by Fund - Unaudited

	Revenues			Expenditures			Revenues		7/1/2020	
	Budget	YTD		Budget	YTD		Less		Beginning	Ending
Fund	FY 20-21	FY 20-21	Percent	FY 20-21	FY 20-21	Percent	Expenditures	Transfers	Balance	Balance
General	$ 105,185,936	$ 121,881,335	115.87%	$ 90,254,772	$ 62,497,047	69.25%	$ 59,384,288	$ (5,635,894)	$ 53,752,163	$ 107,500,557
AZCARES State Revenue	-	9,140,899	100.00%	-	9,140,899	100.00%	-	-	-	-
HURF	5,799,000	5,984,232	103.19%	6,010,638	4,070,745	67.73%	1,913,487	-	3,735,753	5,649,240
Water	93,945,000	66,842,419	71.15%	112,048,350	62,047,928	55.38%	4,794,491	2,391,777	109,448,490	116,634,758
Wastewater	12,010,000	12,893,523	107.36%	29,763,964	19,671,208	66.09%	(6,777,685)	3,359,250	176,458,329	173,039,894
Water Repair & Replacement	900,000	894,490	99.39%	600,000	413,316	68.89%	481,174	(500,000)	402,153	383,327
Environmental Services	8,374,560	8,099,736	96.72%	8,925,951	8,390,733	94.00%	(290,997)	-	529,985	238,988
CIP Projects	10,555,863	1,156,195	10.95%	46,715,034	16,681,645	35.71%	(15,525,450)	13,034,785	1,187,173	(1,303,492)
Parks & Rec Imp Fees	335,000	1,338,041	399.42%	1,025,000	3,000	0.29%	1,335,041	(2,031,296)	4,455,936	3,759,681
Library Impact Fees	35,000	29,760	85.03%	525,000	80,441	15.32%	(50,681)	(1,810,066)	2,570,356	709,609
Streets Impact Fees	132,500	288,858	218.01%	275,000	3,000	1.09%	285,858	(665,903)	1,504,065	1,124,020
Public Safety Imp Fees	810,000	1,472,495	181.79%	5,025,000	59,210	1.18%	1,413,285	(712,564)	8,893,428	9,594,149
Water Impact Fees	980,000	346,259	35.33%	2,025,000	182,740	9.02%	163,519	(1,006,777)	3,829,738	2,986,480
Wastewater Impact Fees	1,425,000	775,593	54.43%	2,025,000	364,580	18.00%	411,013	309,864	2,283,929	3,004,806
Impact Fees Fire 7/1/2020	-	1,316,196	-	-	471,970	-	844,226	-	-	844,226
Impact Fees Library 7/1/2020	-	661,880	-	-	-	-	661,880	-	-	661,880
Impact Fees Parks 7/1/2020	-	1,507,065	-	-	-	-	1,507,065	-	-	1,507,065
Impact Fees Police 7/1/2020	-	1,932,385	-	-	-	-	1,932,385	-	-	1,932,385
Impact Fees Streets 7/1/2020	-	370,496	-	-	-	-	370,496	-	-	370,496
Impact Fees Water 7/1/2020	-	3,643,443	-	-	2,025,765	-	1,617,678	-		1,617,678
Impact Fees WW 7/1/2020	-	5,229,714	-	-	4,180,150	-	1,049,564	-	-	1,049,564
Total	$ 254,817,904	$ 250,050,371	98.13%	$ 329,827,805	$ 195,697,808	59.33%	$ 54,352,563	$ -	$ 396,388,113	$ 450,740,676

1

BUCKEYE, AZ

General Fund Revenues - Unaudited

	FY 2020-21 Budget	Year to Date FY 2020-21	Year to Date FY 2019-20	Budget Variance	% Received or Spent
Revenues and Operating Transfers In					
Local TPT:					
TPT excluding Construction	$ 23,408,905	$ 30,466,104	$ 22,435,058	$ 7,057,199	130.15%
TPT - Construction	16,096,095	23,265,927	16,876,892	7,169,832	144.54%
State Shared Revenues**	31,062,899	39,108,953	20,501,125	8,046,054	125.90%
Building, Planning, & Permit Fees	14,900,000	21,074,764	13,970,838	6,174,764	141.44%
Property Taxes	10,194,104	9,772,512	8,792,963	(421,592)	95.86%
Franchise Fees & Leases	4,084,000	3,826,046	3,403,466	(257,954)	93.68%
Charges For Services	3,182,012	2,441,710	2,754,630	(740,302)	76.73%
All Other Revenues	2,257,921	1,066,218	3,202,597	(1,191,703)	47.22%
Total Revenues	$ 105,185,936	$ 131,022,234	$ 91,937,569	$ 25,836,298	124.56%
Operating transfers in	1,800,000	1,810,151	4,096	10,151	100.56%
Total Revenues and Transfers In	$ 106,985,936	$ 132,832,385	$ 91,941,665	$ 25,846,449	124.16%

**Includes AZ CARES funds received in July in the amount of $9,140,899. Also received ARPA payment in the amount of $5,287,732.50

BUCKEYE, AZ

TPT collections by category

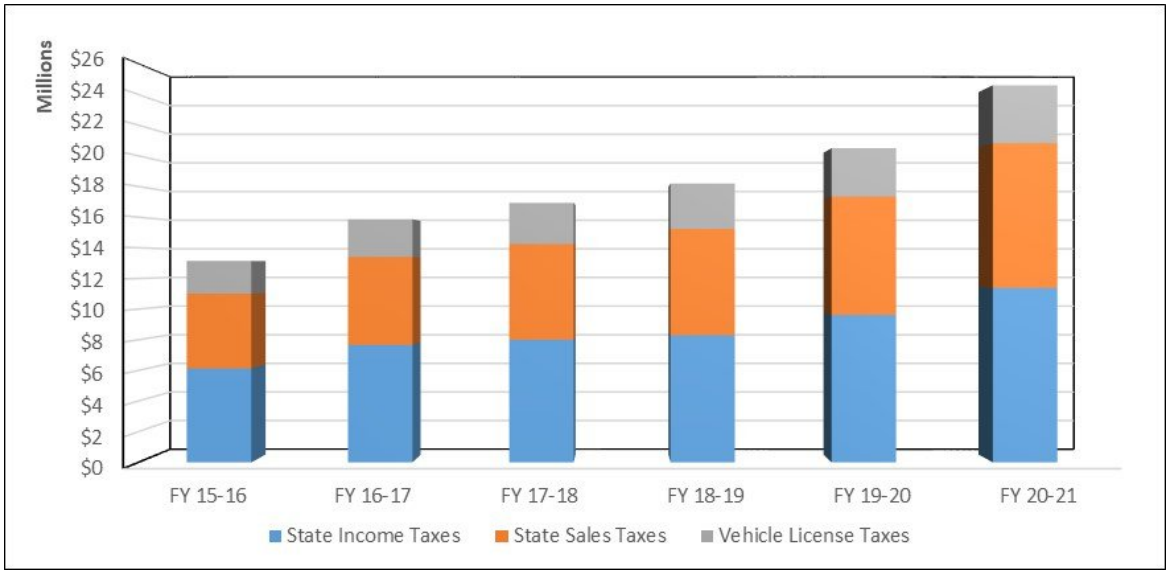
Industry Group	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	Chg over Prior Year
Contracting Activities	$ 5,542,047	$ 9,279,151	$ 11,679,960	$ 13,309,764	$ 16,876,892	$ 22,918,148	35.80%
Retail	9,591,565	10,781,964	11,536,159	12,692,331	16,022,226	21,278,319	32.81%
Utilities	1,529,818	1,791,482	1,974,859	2,216,803	2,410,847	2,103,159	-12.76%
Restaurants & Bars	2,487,965	1,720,517	1,820,657	2,010,334	2,157,707	3,076,868	42.60%
Real Estate Rentals	1,417,136	1,534,621	1,655,822	1,942,775	1,582,440	2,229,431	40.89%
Telecom	822,976	500,011	530,207	478,224	505,945	397,122	-21.51%
Hotels	154,122	306,126	353,921	393,440	399,773	538,044	34.59%
Other*	532,161	321,516	365,185	372,207	320,853	387,754	20.85%
Total TPT	$ 22,077,789	$ 26,235,388	$ 29,916,771	$ 33,415,879	$ 40,276,683	$ 52,928,845	31.41%
% change over prior year	12.20%	18.83%	14.03%	11.70%	20.53%		
On-line Retail Sales	N/A***	N/A***	N/A***	N/A***	$ 2,284,745	$ 4,495,668	
% of Retail					14.26%	21.13%	

Information obtained from the Arizona Department of Revenue

*Other represents Arts and Entertainment, Services, Mining and Transportation and Warehouse.

BUCKEYE, AZ

State Shared Revenues by category – General Fund



	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	% Chg over prior year
State Income Taxes	$ 6,125,414	$ 7,656,457	$ 8,004,916	$ 8,289,640	$ 9,617,118	$ 11,378,810	18.32%
State Sales Taxes	4,885,632	5,744,180	6,239,614	6,935,749	7,727,535	9,445,569	22.23%
Vehicle License Taxes	2,130,795	2,465,450	2,685,444	2,970,808	3,156,472	3,778,092	19.69%
Smart & Safe Arizona	-	-	-	-	-	66,145	0.00%
American Rescue Plan Act (ARPA)	-	-	-	-	-	5,287,733	0.00%
AZ CARES	-	-	-	-	-	9,152,604	0.00%
Total State Shared Revenues	$ 13,141,841	$ 15,866,086	$ 16,929,974	$ 18,196,197	$ 20,501,125	$ 39,108,953	90.76%
Annual Percent Change	2.76%	20.73%	6.71%	7.48%	12.67%		
Total YTD State Shared collected**	13,141,841	15,866,086	16,929,974	18,196,197	20,501,125	*21,922,000*	
% Collected	100.00%	100.00%	100.00%	100.00%	100.00%	*112.23%*	

BUCKEYE, AZ

Permitting activity – SFR permits only

	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	% Chg over Prior Year
July	113	97	209	211	246	291	18.29%
August	80	164	220	197	183	232	26.78%
September	107	144	194	163	234	394	68.38%
October	109	123	208	182	250	364	45.60%
November	84	152	183	156	227	309	36.12%
December	102	135	162	182	264	340	28.79%
January	111	140	161	247	268	223	-16.79%
February	91	161	194	201	198	371	87.37%
March	112	182	213	183	349	365	4.58%
April	108	171	179	179	192	306	59.38%
May	116	205	197	221	166	179	7.83%
June	166	160	170	216	229	142	-37.99%
SFR Permits Issued	1,299	1,834	2,290	2,338	2,806	3,516	
Annual Percent Change	42.28%	41.19%	24.86%	2.10%	20.02%	25.30%	

BUCKEYE, AZ

Permitting Revenues – All categories

	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21
July	$ 630,827	$ 508,334	$ 1,003,234	$ 1,171,853	$ 1,149,138	$ 1,824,169
August	489,977	817,667	821,749	1,095,616	1,263,260	1,670,684
September	672,944	616,454	929,223	898,208	1,104,556	2,034,610
October	713,742	734,875	1,071,240	950,288	1,492,824	1,754,514
November	481,150	816,457	978,725	910,736	1,030,402	1,937,906
December	427,062	943,448	660,517	988,389	1,078,597	1,814,774
January	541,893	783,195	674,415	1,180,425	1,316,103	1,557,858
February	451,960	836,013	719,968	1,079,161	902,787	1,914,904
March	572,544	882,596	982,825	1,295,579	1,430,449	1,898,773
April	478,212	796,054	965,653	918,968	864,069	1,918,100
May	726,762	1,215,163	945,675	1,286,647	1,221,440	1,649,712
June	243,813	692,181	827,604	1,339,550	1,117,213	1,098,760
Total Permit Fees	$ 6,430,886	$ 9,642,437	$ 10,580,828	$ 13,115,420	$ 13,970,838	$ 21,074,764
Annual % Change	12.89%	49.94%	9.73%	23.95%	6.52%	50.85%

BUCKEYE, AZ

General Fund Expenditures - Unaudited

	FY 2020-21 Budget	Year to Date FY 2020-21	Year to Date FY 2019-20	Amount Encumbered	Budget Variance	% Received or Spent
Department Expenditures						
Council	$ 649,964	$ 532,567	$ 571,493	$ 3,467	$ 113,930	82.47%
City Manager	3,032,339	2,897,718	2,729,118	3,049	131,572	95.66%
City Clerk	830,984	570,640	557,743	-	260,344	68.67%
Finance	4,630,928	4,058,784	4,235,861	4,821	567,323	87.75%
Human Resources	1,292,159	1,173,427	1,118,908	5,905	112,827	91.27%
City Court	1,201,772	1,122,150	1,028,859	-	79,622	93.37%
Police	20,914,840	21,075,540	20,055,419	134,055	(294,755)	101.41%
Fire	15,787,951	15,798,629	14,551,196	81,942	(92,620)	100.59%
Community Services	5,845,321	4,499,922	4,596,985	25,979	1,319,420	77.43%
Economic Development	834,259	669,687	672,458	-	164,572	80.27%
Information Technology	5,316,676	4,582,249	3,998,264	5,669	728,758	86.29%
Public Works	4,442,376	3,789,728	3,310,676	287,029	365,619	91.77%
Development Services	5,714,221	5,399,938	4,436,942	111,033	203,250	96.44%
Engineering	4,071,928	3,374,703	2,748,198	-	697,225	82.88%
Non Departmental	1,359,501	128,836	-	133,921	1,096,744	19.33%
Debt Service	1,225,706	249,113	524,066	-	976,593	20.32%
Total Operating Expenditures	77,150,925	69,923,631	65,136,186	796,870	6,430,424	91.67%
Operating Revenues over (under) Operating Expenditures	29,835,011	62,908,754	26,805,479	(796,870)	32,276,873	108.18%
Other Expenditures/Financing Uses						
General Fund Capital	3,853,797	1,714,315	2,837,032	893,820	1,245,662	67.68%
Transfers Out	24,198,595	7,446,045	8,359,706	-	16,752,550	30.77%
Reserves/ Contingency - AZ CARES	8,640,899	-	-	-	8,640,899	0.00%
Reserves/ Contingency	609,151	-	-	-	609,151	0.00%
Total Other Expenditures/Financing Uses	37,302,442	9,160,360	11,196,738	893,820	27,248,262	
Excess (Deficit)	(7,467,431)	53,748,394	15,608,741	$ (1,690,690)	$ 59,525,135	
Beginning Fund Balance	42,000,000	53,752,163	36,439,069			
Ending Fund Balance	$ 34,532,569	$ 107,500,557	$ 52,047,810			

BUCKEYE, AZ

General Fund Expenditures - Unaudited

	FY 2020-21 Revised Budget	Year to Date FY 2020-21	Year to Date FY 2019-20	Amount Encumbered	Budget Variance	% Received or Spent
Expenditures and Operating Transfers Out:						
Salaries and Benefits	$ 53,504,768	$ 52,405,054	$ 49,490,823	$ -	$ 1,099,714	97.94%
Contractual Services	12,846,503	10,107,923	8,563,591	453,050	2,285,530	82.21%
Repairs and Maintenance	1,972,532	1,545,733	908,381	249,487	177,312	91.01%
Utilities	1,549,835	1,253,218	1,025,817	-	296,617	80.86%
Travel and Training	1,072,917	614,503	587,498	9,709	448,705	58.18%
Other	4,979,664	3,748,087	4,036,010	84,624	1,146,953	76.97%
Debt Service	1,224,706	249,113	524,066	-	975,593	20.34%
Total Operating Expenditures	77,150,925	69,923,631	65,136,186	796,870	6,430,424	91.67%
Other Expenditures and Transfers Out						
Capital Outlay	3,853,797	1,714,316	2,837,032	893,820	1,245,661	67.68%
Transfers Out	24,198,595	7,446,044	8,359,706	-	16,752,551	30.77%
Reserves/ Contingency - AZ CARES	8,640,899	-	-	-	8,640,899	0.00%
Reserves/ Contingency	609,151	-	-	-	609,151	0.00%
Total Expenditures and Transfers Out	$ 114,453,367	$ 79,083,991	$ 76,332,924	$ 1,690,690	$ 33,678,686	70.57%

BUCKEYE, AZ

HURF - Unaudited

	FY 2020-21 Budget	Year to Date FY 2020-21	Year to Date FY 2019-20	Amount Encumbered	Budget Variance	% Received or Spent
Revenues						
Fuel Taxes	$ 5,171,000	$ 5,520,744	$ 5,075,899		$ 349,744	106.76%
Grant Revenues	500,000	386,468	-		(113,532)	77.29%
All Other Revenues	128,000	77,020	311,209		(50,980)	60.17%
Total Revenues	$ 5,799,000	$ 5,984,232	$ 5,387,108		$ 185,232	103.19%
Operating Expenditures						
Personnel Services	$ 1,984,694	$ 1,934,154	$ 2,039,543	$ -	$ 50,540	97.45%
Services & Other Charges	1,604,485	1,401,034	1,426,338	76,189	127,262	92.07%
Operating Expenditures	3,589,179	3,335,188	3,465,881	76,189	177,802	95.05%
Capital Outlay Expenditures	1,765,971	735,557	151,492	819,555	210,859	88.06%
Transfers Out	1,000,000	-	78,171	-	1,000,000	0.00%
Contingency	655,488	-	-	-	655,488	0.00%
Total Expenditures & Transfers Out	$ 7,010,638	$ 4,070,745	$ 3,695,544	$ 895,744	$ 2,044,149	70.84%
Revenues & Transfers In over (under) Expenditures & Transfers Out	(1,211,638)	1,913,487	1,691,564			
Beginning Fund Balance	3,800,000	3,735,753	2,617,009			
Ending Fund Balance	$ 2,588,362	$ 5,649,240	$ 4,308,573			

BUCKEYE, AZ

Water Fund - Unaudited

	FY 2020-21 Budget	Year to Date FY 2020-21	Year to Date FY 2019-20	Amount Encumbered	Budget Variance	% Received or Spent
Revenues						
Charges For Services	$ 28,285,000	$ 29,655,247	$ 28,008,845		$ 1,370,247	104.84%
Environmental Fee	1,250,000	1,094,829	1,579,734		(155,171)	87.59%
All Other Revenues	210,000	542,486	744,282		332,486	258.33%
Grant Proceeds	-	-	689,000		-	0.00%
Bond/Loan Proceeds	64,200,000	35,549,857	19,728,102		(28,650,143)	55.37%
Transfers from other funds	4,090,000	2,391,777	-		(1,698,223)	58.48%
Total Revenues & Transfers from	$ 98,035,000	$ 69,234,196	$ 50,749,963		$ (28,800,804)	70.62%
Operating Expenditures						
Personnel Services	$ 5,221,630	$ 5,056,535	$ 4,930,030	$ -	$ 165,095	96.84%
Services & Other Charges	10,780,845	9,109,495	9,874,745	335,527	1,335,823	87.61%
Debt Service	9,853,939	1,562,540	1,663,396	-	8,291,399	15.86%
Total Operating Expenditures	25,856,414	15,728,570	16,468,171	335,527	9,792,317	62.13%
Equipment and CIP	85,107,000	46,319,358	28,645,768	21,546,561	17,241,081	79.74%
Contingency	1,084,936	-	-	-	1,084,936	0.00%
Total Expenditures	$ 112,048,350	$ 62,047,928	$ 45,113,939	$ 21,882,088	$ 28,118,334	74.91%
Revenues & Transfers In over (under) Expenditures & Transfers Out	(14,013,350)	7,186,268	5,636,024			

BUCKEYE, AZ

Wastewater Fund - Unaudited

	FY 2020-21 Budget	Year to Date FY 2020-21	Year to Date FY 2019-20	Amount Encumbered	Budget Variance	% Received or Spent
Revenues						
Charges For Services	$ 11,580,000	$ 12,212,194	$ 11,468,590		$ 632,194	105.46%
Environmental Fees	330,000	511,447	-		181,447	154.98%
All Other Revenues	100,000	169,883	366,818		69,883	169.88%
Transfers from other funds	4,700,000	3,669,113	-		(1,030,887)	78.07%
Total Revenues & Transfers from	$ 16,710,000	$ 16,562,637	$ 11,835,408		$ (147,363)	99.12%
Operating Expenditures						
Personnel Services	$ 2,655,504	$ 2,594,393	$ 2,615,221	-	$ 61,111	97.70%
Services & Other Charges	3,857,965	3,430,089	3,507,703	67,101	360,775	90.65%
Debt Service	1,016,465	108,581	726,650	-	907,884	10.68%
Total Operating Expenditures	7,529,934	6,133,063	6,849,574	67,101	1,329,770	82.34%
Equipment and CIP Expenditures	21,766,629	13,538,145	2,415,688	2,213,340	6,015,144	72.37%
Transfers Out	-	309,864	-	-	(309,864)	0.00%
Contingency	467,401	-	-	-	467,401	0.00%
Total Expenditures	$ 29,763,964	$ 19,981,072	$ 9,265,262	$ 2,280,441	$ 7,502,451	25.21%
Revenues & Transfers In over (under) Expenditures & Transfers Out	(13,053,964)	(3,418,435)	2,570,146			

BUCKEYE, AZ

BUCKEYE, AZ

Questions???



City of Buckeye
Arizona

Monthly Financial Report

BUCKEYE, AZ

To the City Manager

Covering the financial activities of the City Government during

The Month of June 2021

Additional detailed information will be available upon request to the City Manager's Office

Prepared by the City of Buckeye's Finance Department

MEMORANDUM

To: Roger Klingler, City Manager

From: Bill Kauppi, Chief Financial Officer

Date: August 9, 2021

Subject: FY 2020-21 Unaudited Financial Report as of June 2021

Attached is the unaudited financial Report for the period ending June 30, 2021.

Some highlights include:

- Overall revenues exceeded expenditures by $54,352,563.

General Fund (pages 2 – 7):

- General Fund cash balance at the end of June was $103,241,761 (compared to $52,756,161 as of June 2020; a $50.5M increase).
- General Fund revenues exceeded General Fund expenditures by $53,748,394. The excess was primarily due to the City receiving $9.1M of AZCARES money in the month of July 2020 and the first installment of the American Rescue Plan Act (ARPA) in the amount of $5,287,733 that was received last month. In addition, TPT, State Shared Revenues and permitting revenues continue to exceed our projections. Also due to COVID, many expenditures especially in the area of Community Services, capital outlay, and transfers, either were frozen or delayed resulting in a significant savings.
- TPT revenue (the City's largest General Fund revenue) collections as reported by the Department of Revenue are favorable to the prior year by $12,652,162 or 31.4%. As displayed on page 4, contracting activities (i.e. construction) accounts for $6,041,256 of that increase. Retail collections increased by $5,256,093 over the prior year or 32.8%. Retail and construction TPT collection account for 83% of the total collections. On line retail sales accounts for 21.1% of the total retail sales. Restaurants and bars collections are up 42.6% or $919,161 over the prior year. Hotel collections are also up 35% over the prior year. TPT collections have continued to exceed our revenue projections especially in the areas of retail and construction.
- Excluding the funds received from the AZCARES grant and ARPA, State Shared revenues are favorable compared to the prior year by $4,101,346 or 20.0%. State shared revenues continue to exceed our budget projections.
- Page 10 shows building permit revenues for the current year and the previous five years. As of the end of June, permitting revenues are 50.9% higher than revenues for the same period in the previous year. Single-family residential (SFR) permits (page 11) issued through June totals 3,516 compared to 2,806 for the same period of the previous year or an increase of 25.3%. However due to a lumber shortage and Tartesso being built out, there were only 179 and 142 permits issued during the months of May and June respectively.

HURF (pages 12-14):

- Current cash balance in HURF is $4,892,702 compared to $3,969,675 as of June 2020; an increase of $923,027. On page 14, HURF collections are slightly lower than the prior year by 8.8% or $444,845. However, the increase would have been more if the City had not received a one-time HURF adjustment of $197,802 in the previous fiscal year.

Water Fund (pages 15-17):

- Water Fund cash balance at the end of June was $42,386,236 (compared to $33,753,508 as of June 2020; a $8.6M increase).
- Water Fund revenues exceeded expenditures by $7,186,268. As of June, Water user fee revenues are favorable to the prior year by $1,161,497 or 3.9%. In addition, the City has been reimbursed over $35.5M from WIFA for the Jackie A. Meck Water Campus project.

Wastewater Fund (pages 19-21):

- Wastewater Fund cash balance at the end of June was $12,338,373 (compared to $16,321,440 as of June 2020; a $4.0M decrease).
- Wastewater Fund expenditures exceeded revenues by $3,418,435. As of June, Wastewater user fee revenues are $1,255,501 higher than revenues for the same period in the prior year. In addition, there was a transfer from the Impact Fees Fund in the amount of $3.7M to cover capital growth related expenditures.

Information pertaining to Environmental Services Fund and Capital Improvement Projects begins on page 22.

If you have any questions, please contact me.

City of Buckeye
FY 2020-21 Revenues and Expenditures
As of June 30 - 100% of the year lapsed

BUCKEYE, AZ

Fund	Revenues Budget FY 20-21	Revenues YTD FY 20-21	Revenues Percent	Expenditures Budget FY 20-21	Expenditures YTD FY 20-21	Expenditures Percent	Revenues Less Expenditures	Transfers	7/1/2020 Beginning Balance	Ending Balance
General	$105,185,936	$ 121,881,335	115.87%	$ 90,254,772	$ 62,497,047	69.25%	$ 59,384,288	$ (5,635,894)	$ 53,752,163	$ 107,500,557
AZCARES State Revenue	-	9,140,899	100.00%	-	9,140,899	100.00%	-	-	-	-
Fill The Gap	6,750	7,347	108.84%	58,000	-	-	7,347	-	62,998	70,345
JCEF	12,000	13,904	115.87%	100,000	-	-	13,904	-	105,745	119,649
Court Enhancement Fund	80,800	43,655	54.03%	235,000	-	-	43,655	-	252,245	295,900
Noise/Commerical Vehicles	-	5,124	0.00%	-	-	-	5,124	-	-	5,124
Youth Scholarship	-	-	-	15,000	-	-	-	-	-	-
Towing/Impound	112,000	38,911	34.74%	220,000	32,915	14.96%	5,996	-	201,137	207,133
Downtown Revitalization	19,534	-	-	-	-	-	-	-	-	-
Community Services Programs	133,400	46,697	35.01%	603,650	72,776	12.06%	(26,079)	6,289	-	(19,790)
Economic Development Reinv	-	-	-	495,000	64,423	13.01%	(64,423)	64,423	-	-
Transient Lodging Tax	225,000	269,022	119.57%	457,530	126,672	27.69%	142,350	-	447,936	590,286
Sundance Crossings	-	-	-	-	-	-	-	(151)	151	-
Risk Management Retention	306,000	544,435	177.92%	1,652,030	1,320,435	79.93%	(776,000)	749,769	244,610	218,379
SLID Operations	328,000	329,746	100.53%	313,999	311,619	99.24%	18,127	-	68,914	87,041
MAG/ADOT Proj	500,000	-	-	500,000	-	-	-	-	-	-
CDBG	500,000	-	-	500,000	-	-	-	-	-	-
Police Grants	3,292,500	459,152	13.95%	3,292,500	487,326	14.80%	(28,174)	-	46,501	18,327
Fire Grants	1,140,000	14,812	1.30%	1,140,000	-	-	14,812	-	-	14,812
Area Agency (AAA)	319,331	279,272	87.46%	748,778	792,012	105.77%	(512,740)	383,519	35,227	(93,994)
Community Services Grants	571,900	23,000	4.02%	869,640	27,000	3.10%	(4,000)	4,000	-	-
Nuclear Emergency Mgmt	70,000	70,000	100.00%	70,000	58,814	84.02%	11,186	-	-	11,186
Wildland Fire Grant	28,200	-	-	28,200	-	-	-	-	-	-
AZ Lottery Grant Fund	217,895	126,817	58.20%	51,500	15,800	30.68%	111,017	(111,166)	-	(149)
Volunteer Firemen's	55,430	6,223	11.23%	312,000	5,049	1.62%	1,174	2,000	296,646	299,820
HURF	5,799,000	5,984,232	103.19%	6,010,638	4,070,745	67.73%	1,913,487	-	3,735,753	5,649,240
Water	93,945,000	66,842,419	71.15%	112,048,350	62,047,928	55.38%	4,794,491	2,391,777	109,448,490	116,634,758
Wastewater	12,010,000	12,893,523	107.36%	29,763,964	19,671,208	66.09%	(6,777,685)	3,359,250	176,458,329	173,039,894
Water Repair & Replacement	900,000	894,490	99.39%	600,000	413,316	68.89%	481,174	(500,000)	402,153	383,327
W&S Revenue Bonds	-	-	-	5,000	-	-	-	-	5,000	5,000
Environmental Services	8,374,560	8,099,736	96.72%	8,925,951	8,390,733	94.00%	(290,997)	-	529,985	238,988
Airport Operations	383,725	341,471	88.99%	482,032	315,801	65.51%	25,670	-	7,512,125	7,537,795
Airport Capital Improvement	4,979,308	27,014	0.54%	5,002,600	105,836	2.12%	(78,822)	-	1,680,694	1,601,872
Cemetery Improvement	147,450	295,054	200.10%	238,556	189,748	79.54%	105,306	-	-	105,306
Sundance Water Recharge	9,718	8,901	91.59%	-	-	-	8,901	-	658,752	667,653
Future Streets Improvement	77,750	46,413	59.70%	1,797,502	-	-	46,413	-	1,730,556	1,776,969
Traffic Signal Fund	273,000	754,735	276.46%	2,000,000	-	-	754,735	(9,951)	2,325,072	3,069,856
Stormwater Quality	-	-	-	93,089	94,667	101.70%	(94,667)	-	84,379	(10,288)
Mobile Integrated Health Care	84,420	-	-	84,420	-	-	-	-	-	-
Public Safety	16,000	24,825	155.16%	65,000	5,112	7.86%	19,713	-	64,281	83,994
Roadway Construction	-	-	-	2,736,136	950,393	34.73%	(950,393)	632,000	7	(318,386)
CIP Projects	10,555,863	1,156,195	10.95%	46,715,034	16,681,645	35.71%	(15,525,450)	13,034,785	1,187,173	(1,303,492)
CIP Roadway Projects	-	-	-	-	-	-	-	-	17,643	17,643
CIP Fire	-	-	-	-	-	-	-	(376,132)	376,132	-
Impact Fees Parks & Rec	-	3,384	-	-	-	-	3,384	(1,106,776)	1,839,299	735,907
Impact Fees Library	-		-	-	-	-	-	(49)	196,903	196,854
Impact Fees Streets	-	28,896	0.00%	-	-	-	28,896	(1,864,661)	3,694,310	1,858,545
Impact Fees Water	-	7,945	0.00%	-	-	-	7,945	(885,000)	889,169	12,114
Impact Fees Wastewater	-		-	-	-	-	-	(3,669,113)	3,656,497	(12,616)
Impact Fees Fire	-		-	-	-	-	-	(552,177)	552,177	-
Parks & Rec Imp Fees	335,000	1,338,041	399.42%	1,025,000	3,000	0.29%	1,335,041	(2,031,296)	4,455,936	3,759,681
Library Impact Fees	35,000	29,760	85.03%	525,000	80,441	15.32%	(50,681)	(1,810,066)	2,570,356	709,609
Streets Impact Fees	132,500	288,858	218.01%	275,000	3,000	1.09%	285,858	(665,903)	1,504,065	1,124,020
Public Safety Imp Fees	810,000	1,472,495	181.79%	5,025,000	59,210	1.18%	1,413,285	(712,564)	8,893,428	9,594,149
Water Impact Fees	980,000	346,259	35.33%	2,025,000	182,740	9.02%	163,519	(1,006,777)	3,829,738	2,986,480
Wastewater Impact Fees	1,425,000	775,593	54.43%	2,025,000	364,580	18.00%	411,013	309,864	2,283,929	3,004,806
Impact Fees Fire 7/1/2020	-	1,316,196	-	-	471,970	-	844,226	-	-	844,226
Impact Fees Library 7/1/2020	-	661,880	-	-	-	-	661,880	-	-	661,880
Impact Fees Parks 7/1/2020	-	1,507,065	-	-	-	-	1,507,065	-	-	1,507,065
Impact Fees Police 7/1/2020	-	1,932,385	-	-	-	-	1,932,385	-	-	1,932,385
Impact Fees Streets 7/1/2020	-	370,496	-	-	-	-	370,496	-	-	370,496
Impact Fees Water 7/1/2020	-	3,643,443	-	-	2,025,765	-	1,617,678	-		1,617,678
Impact Fees WW 7/1/2020	-	5,229,714	-	-	4,180,150	-	1,049,564	-	-	1,049,564
Jackrabbit ID Sewer Debt	41,687	28,642	68.71%	41,687	37,313	89.51%	(8,671)	-	34,500	25,829
Roosevelt ID Debt	398,247	398,320	100.02%	398,247	398,248	100.00%	72	-	237,426	237,498
Jackrabbit ID O&M	-	1,464	-	1,000	769	76.90%	695	-	10,149	10,844
Roosevelt ID O&M	-	176	-	1,000	703	70.30%	(527)	-	9,434	8,907
Total	**$254,817,904**	**$ 250,050,371**	**98.13%**	**$329,827,805**	**$ 195,697,808**	**59.33%**	**$ 54,352,563**	**$ -**	**$ 396,388,113**	**$ 450,740,676**

City of Buckeye
General Fund
Balance Sheet - Unaudited
As of June 30, 2021

	FY 18-19	FY 19-20	FY 20-21	Change over Prior Year
Assets				
Cash and Investments	$ 35,326,400	$ 52,756,161	$ 103,241,761	$ 50,485,600
Cash held by Trustee	738,529	961,823	978,352	16,529
Accounts Receivable	6,439,681	6,429,273	8,190,709	1,761,436
Interest Receivable	477,694	461,511	283,745	(177,766)
Inventory	42,243	49,765	38,319	(11,446)
Prepaid Expenses	90,512	120,363	54,402	(65,961)
Total Assets	**$ 43,115,059**	**$ 60,778,896**	**$ 112,787,288**	**$ 52,008,392**
Liabilities				
Accrued Liabilities	$ 4,585,048	$ 4,457,644	$ 3,620,439	$ (837,205)
Deferred Revenue - Developer Deposits	1,140,656	1,607,266	1,666,292	59,026
Accrued Debt Payable	950,286	961,823	-	(961,823)
Total Liabilities	6,675,990	7,026,733	5,286,731	(1,740,002)
Fund Balance				
Restricted - Reserved for Encumbrances	193,868	123,910	1,690,690	1,566,780
Unrestricted Fund Balance	36,245,201	53,628,253	105,809,867	52,181,614
Total Fund Balance	36,439,069	53,752,163	107,500,557	53,748,394
Total Liabilities & Fund Balance	**$ 43,115,059**	**$ 60,778,896**	**$ 112,787,288**	**$ 52,008,392**

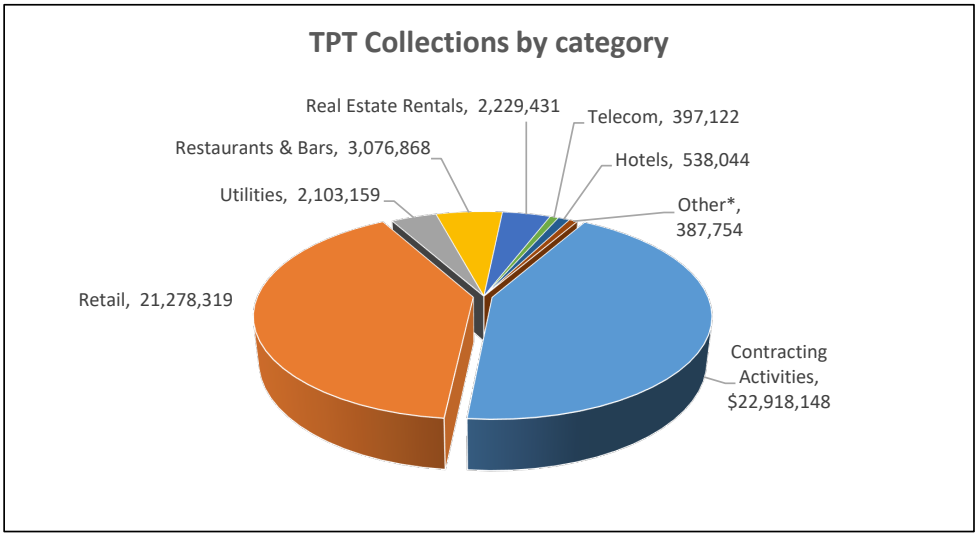
City of Buckeye
General Fund
Year to Date Summary of Revenues, Expenditures, and Transfers
For the period ending June 30, 2021
100% of the year lapsed

	FY 2020-21 Budget	Year to Date FY 2020-21	Year to Date FY 2019-20	Amount Encumbered	Budget Variance	% Received or Spent
Revenues						
Local TPT	$ 23,408,905	$ 30,466,104	$ 22,435,058		$ 7,057,199	130.15%
State Shared Revenues**	31,062,899	39,108,953	20,501,125		8,046,054	125.90%
Building, Planning, & Permit Fees	14,900,000	21,074,764	13,970,838		6,174,764	141.44%
Property Taxes	10,194,104	9,772,512	8,792,963		(421,592)	95.86%
Franchise Fees & Leases	4,084,000	3,826,046	3,403,466		(257,954)	93.68%
Charges For Services	3,182,012	2,441,710	2,754,630		(740,302)	76.73%
All Other Revenues	2,257,921	1,066,218	3,202,597		(1,191,703)	47.22%
Total Revenues	**$ 89,089,841**	**$ 107,756,307**	**$ 75,060,677**		**$ 18,666,466**	**120.95%**
Department Expenditures						
Council	$ 649,964	$ 532,567	$ 571,493	$ 3,467	$ 113,930	82.47%
City Manager	3,032,339	2,897,718	2,729,118	3,049	131,572	95.66%
City Clerk	830,984	570,640	557,743	-	260,344	68.67%
Finance	4,630,928	4,058,784	4,235,861	4,821	567,323	87.75%
Human Resources	1,292,159	1,173,427	1,118,908	5,905	112,827	91.27%
City Court	1,201,772	1,122,150	1,028,859	-	79,622	93.37%
Police	20,914,840	21,075,540	20,055,419	134,055	(294,755)	101.41%
Fire	15,787,951	15,798,629	14,551,196	81,942	(92,620)	100.59%
Community Services	5,845,321	4,499,922	4,596,985	25,979	1,319,420	77.43%
Economic Development	834,259	669,687	672,458	-	164,572	80.27%
Information Technology	5,316,676	4,582,249	3,998,264	5,669	728,758	86.29%
Public Works	4,442,376	3,789,728	3,310,676	287,029	365,619	91.77%
Development Services	5,714,221	5,399,938	4,436,942	111,033	203,250	96.44%
Engineering	4,071,928	3,374,703	2,748,198	-	697,225	82.88%
Non Departmental	1,359,501	128,836	-	133,921	1,096,744	19.33%
Debt Service	1,225,706	249,113	524,066	-	976,593	20.32%
Total Operating Expenditures	**77,150,925**	**69,923,631**	**65,136,186**	**796,870**	**6,430,424**	**91.67%**
Operating Revenues over (under) Operating Expenditures	**11,938,916**	**37,832,676**	**9,924,491**	**(796,870)**	**25,096,890**	**210.21%**
Other Revenues/Financing Sources and Other Expenditures/Financing Uses						
Construction TPT	16,096,095	23,265,927	16,876,892	-	7,169,832	144.54%
Transfers In	1,800,000	1,810,151	4,096	-	10,151	100.56%
General Fund Capital	(3,853,797)	(1,714,315)	(2,837,032)	(893,820)	1,245,662	67.68%
Transfers Out	(24,198,595)	(7,446,045)	(8,359,706)	-	16,752,550	30.77%
Reserves/ Contingency - AZ CARES	(8,640,899)	-	-	-	8,640,899	0.00%
Reserves/ Contingency	(609,151)	-	-	-	609,151	0.00%
Total Other Financing Sources over (under) Uses	**(19,406,347)**	**15,915,718**	**5,684,250**	**(893,820)**	**34,428,245**	
Excess (Deficit)	**(7,467,431)**	**53,748,394**	**15,608,741**	**$ (1,690,690)**	**$ 59,525,135**	
Beginning Fund Balance	**42,000,000**	**53,752,163**	**36,439,069**			
Ending Fund Balance	**$ 34,532,569**	**$ 107,500,557**	**$ 52,047,810**			

**Includes AZ CARES funds received in July in the amount of $9,140,899. Also received ARPA payment in the amount of $5,287,732.50

City of Buckeye
TPT Revenue Collections by Category
For the period ending June 30, Each Year

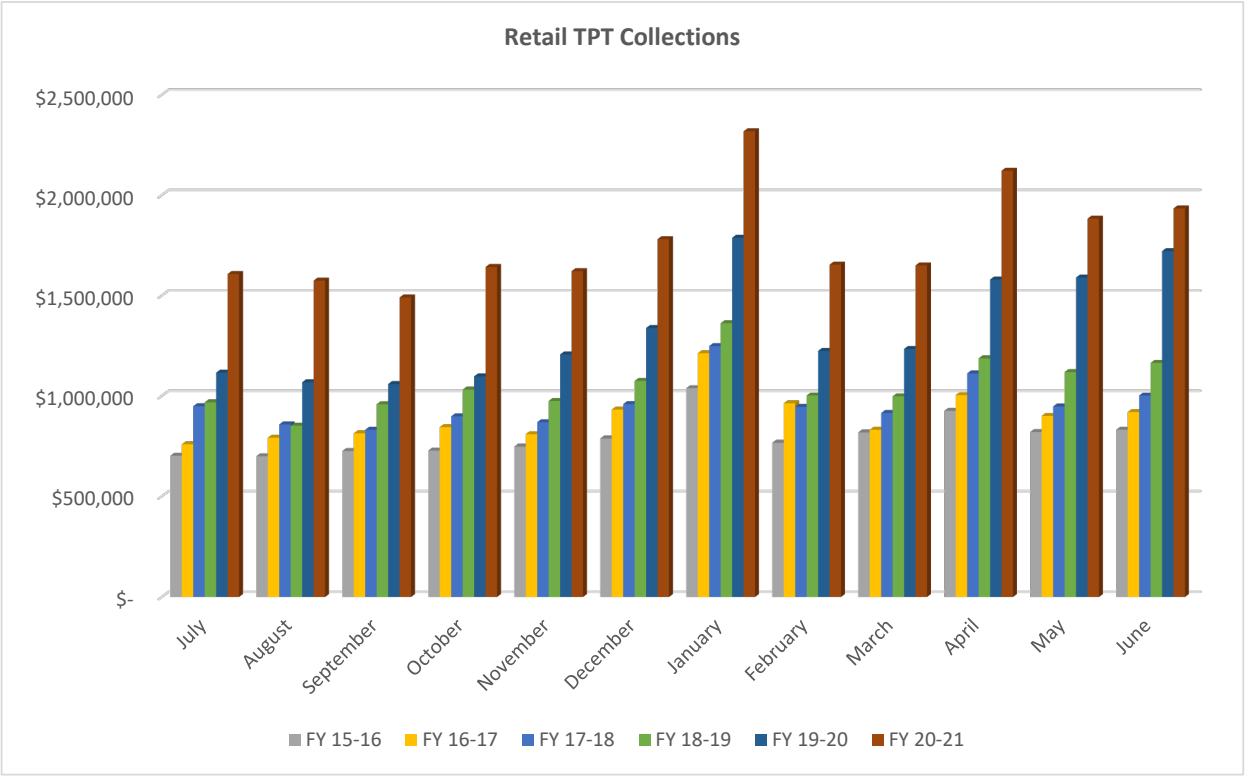
Industry Group	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	Chg over Prior Year	% of Total
Contracting Activities	$ 5,542,047	$ 9,279,151	$ 11,679,960	$ 13,309,764	$ 16,876,892	$ 22,918,148	35.80%	43.30%
Retail	9,591,565	10,781,964	11,536,159	12,692,331	16,022,226	21,278,319	32.81%	40.20%
Utilities	1,529,818	1,791,482	1,974,859	2,216,803	2,410,847	2,103,159	-12.76%	3.97%
Restaurants & Bars	2,487,965	1,720,517	1,820,657	2,010,334	2,157,707	3,076,868	42.60%	5.81%
Real Estate Rentals	1,417,136	1,534,621	1,655,822	1,942,775	1,582,440	2,229,431	40.89%	4.21%
Telecom	822,976	500,011	530,207	478,224	505,945	397,122	-21.51%	0.75%
Hotels	154,122	306,126	353,921	393,440	399,773	538,044	34.59%	1.02%
Other*	532,161	321,516	365,185	372,207	320,853	387,754	20.85%	0.73%
Total TPT	$ 22,077,789	$ 26,235,388	$ 29,916,771	$ 33,415,879	$ 40,276,683	$ 52,928,845	31.41%	100.00%
% change over prior year	12.20%	18.83%	14.03%	11.70%	20.53%			
On-line Retail Sales	N/A***	N/A***	N/A***	N/A***	$ 2,284,745	$ 4,495,668		
% of Retail					14.26%	21.13%		
Total YTD TPT collected**	$ 22,077,790	$ 26,235,390	$ 29,916,771	$ 33,415,878	$ 40,276,683	*$ 39,595,012*		
% Collected	100.00%	100.00%	100.00%	100.00%	100.00%	*133.68%*		



Information obtained from the Arizona Department of Revenue
*Other represents Arts and Entertainment, Services, Mining and Transportation and Warehouse.
** FY 2020-21 represents amount budgeted; not actual
*** New On-line Retail Tax code was established in 2019 (FY 19-20)

City of Buckeye
Retail TPT Collections by Month

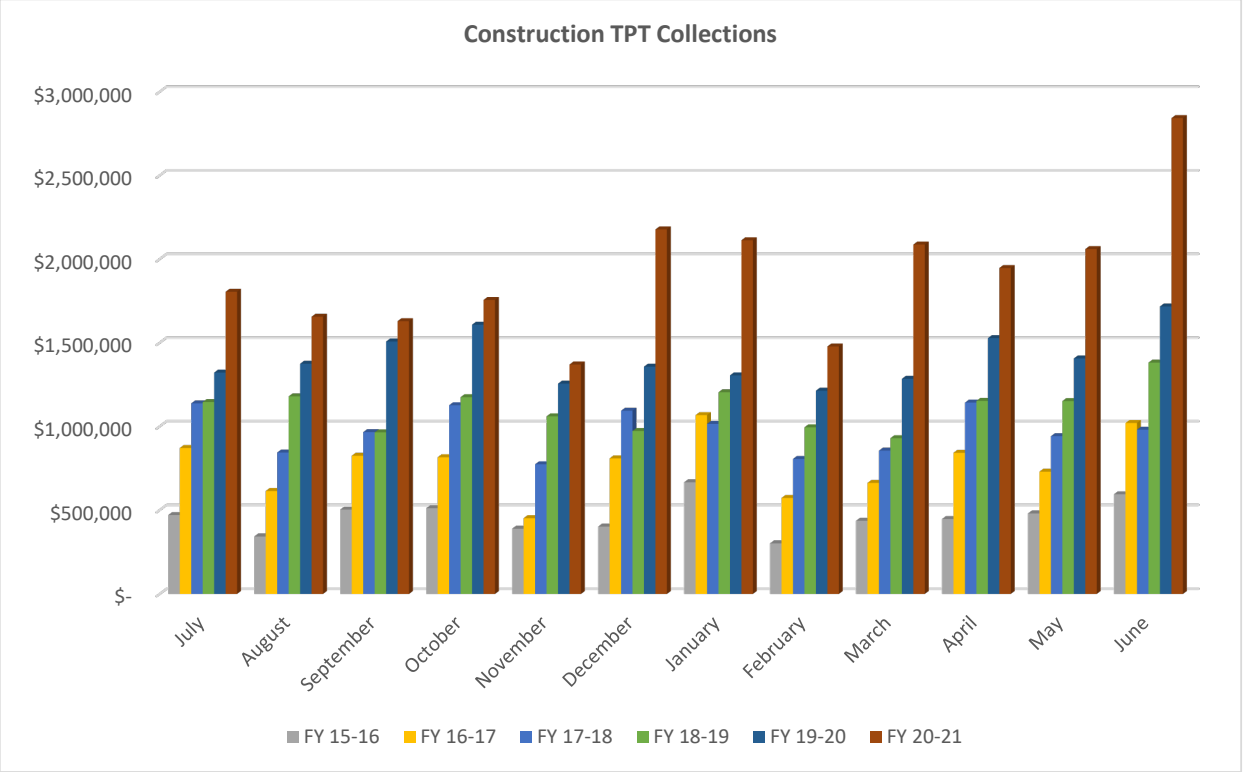
	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	% Chg over Prior Year
July	$ 701,902	$ 759,134	$ 948,882	$ 968,316	$ 1,115,999	$ 1,607,331	44.03%
August	699,422	791,696	858,126	851,652	1,068,127	1,574,316	47.39%
September	725,830	813,592	831,635	958,628	1,059,357	1,490,623	40.71%
October	727,969	844,779	898,455	1,031,655	1,097,427	1,642,561	49.67%
November	747,698	809,446	868,872	974,922	1,206,552	1,621,828	34.42%
December	787,968	932,014	959,289	1,074,720	1,338,367	1,780,939	33.07%
January	1,038,471	1,212,549	1,248,306	1,361,950	1,787,801	2,318,181	29.67%
February	766,817	963,137	945,549	1,002,193	1,224,165	1,653,951	35.11%
March	818,178	831,458	915,193	997,848	1,233,987	1,650,149	33.72%
April	925,604	1,004,131	1,112,262	1,187,023	1,579,571	2,121,600	34.31%
May	820,117	900,372	947,599	1,118,829	1,589,660	1,883,026	18.45%
June	831,590	919,654	1,001,991	1,164,595	1,721,210	1,933,813	12.35%
Total Revenues	$ 9,591,565	$ 10,781,964	$ 11,536,159	$ 12,692,331	$ 16,022,226	$ 21,278,318	
Annual % Change	10.86%	12.41%	6.99%	10.02%	26.24%	32.81%	



Information obtained from the Arizona Department of Revenues

City of Buckeye
Construction TPT Collections by Month

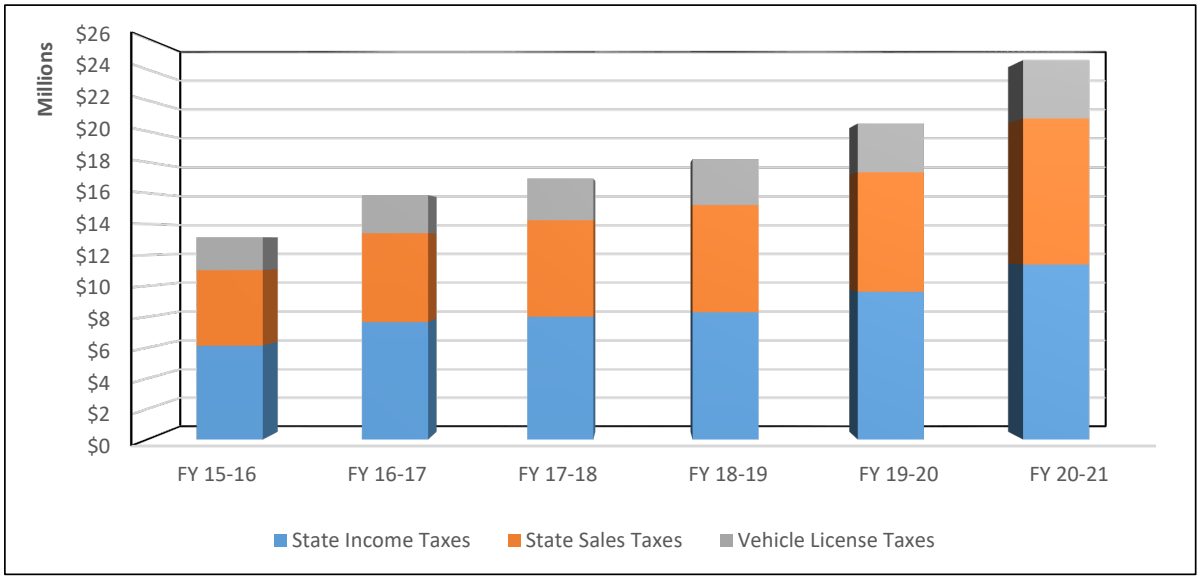
	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	% Chg over Prior Year
July	$ 470,385	$ 870,844	$ 1,137,701	$ 1,145,463	$ 1,321,771	$ 1,804,692	36.54%
August	342,519	613,822	843,676	1,179,382	1,374,505	1,655,598	20.45%
September	503,032	824,517	965,614	964,250	1,507,372	1,628,910	8.06%
October	511,181	815,505	1,126,341	1,174,646	1,607,696	1,755,585	9.20%
November	388,979	451,728	773,339	1,060,114	1,255,658	1,370,073	9.11%
December	401,794	808,817	1,093,649	972,577	1,357,001	2,177,401	60.46%
January	665,606	1,067,420	1,014,828	1,204,013	1,304,857	2,112,565	61.90%
February	301,627	572,249	805,532	994,525	1,213,289	1,477,643	21.79%
March	436,284	662,221	855,218	929,552	1,284,442	2,086,848	62.47%
April	446,652	842,099	1,142,188	1,152,450	1,527,571	1,946,574	27.43%
May	479,756	729,292	941,437	1,151,468	1,405,934	2,059,583	46.49%
June	594,232	1,020,639	980,438	1,381,325	1,716,797	2,842,676	65.58%
Total Revenues	$ 5,542,047	$ 9,279,153	$ 11,679,960	$ 13,309,764	$ 16,876,892	$ 22,918,148	
Annual % Change	12.16%	67.43%	25.87%	13.95%	26.80%	35.80%	



Information obtained from the Arizona Department of Revenues

City of Buckeye
General Fund - State Shared / COVID Funding
For the period ending June 30, Each Year

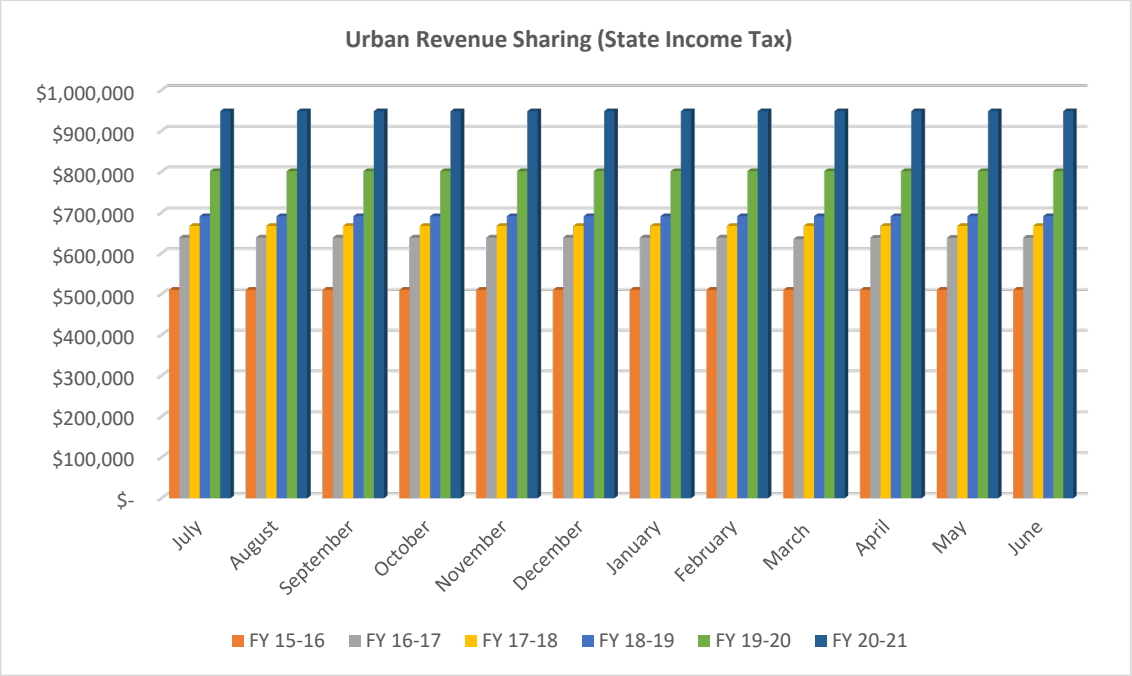
	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	% Chg over prior year
State Income Taxes	$ 6,125,414	$ 7,656,457	$ 8,004,916	$ 8,289,640	$ 9,617,118	$ 11,378,810	18.32%
State Sales Taxes	4,885,632	5,744,180	6,239,614	6,935,749	7,727,535	9,445,569	22.23%
Vehicle License Taxes	2,130,795	2,465,450	2,685,444	2,970,808	3,156,472	3,778,092	19.69%
Smart & Safe Arizona	-	-	-	-	-	66,145	0.00%
American Rescue Plan Act (ARPA)	-	-	-	-	-	5,287,733	0.00%
AZ CARES	-	-	-	-	-	9,152,604	0.00%
Total State Shared Revenues	**$ 13,141,841**	**$ 15,866,086**	**$ 16,929,974**	**$ 18,196,197**	**$ 20,501,125**	**$ 39,108,953**	**90.76%**
Annual Percent Change	2.76%	20.73%	6.71%	7.48%	12.67%		
Total YTD State Shared collected*[1]	13,141,841	15,866,086	16,929,974	18,196,197	20,501,125	*21,922,000*	
% Collected	100.00%	100.00%	100.00%	100.00%	100.00%	*112.23%*	



** FY 2020-21 represents amount budgeted; not actual and excludes the AZ CARES and ARPA funds received

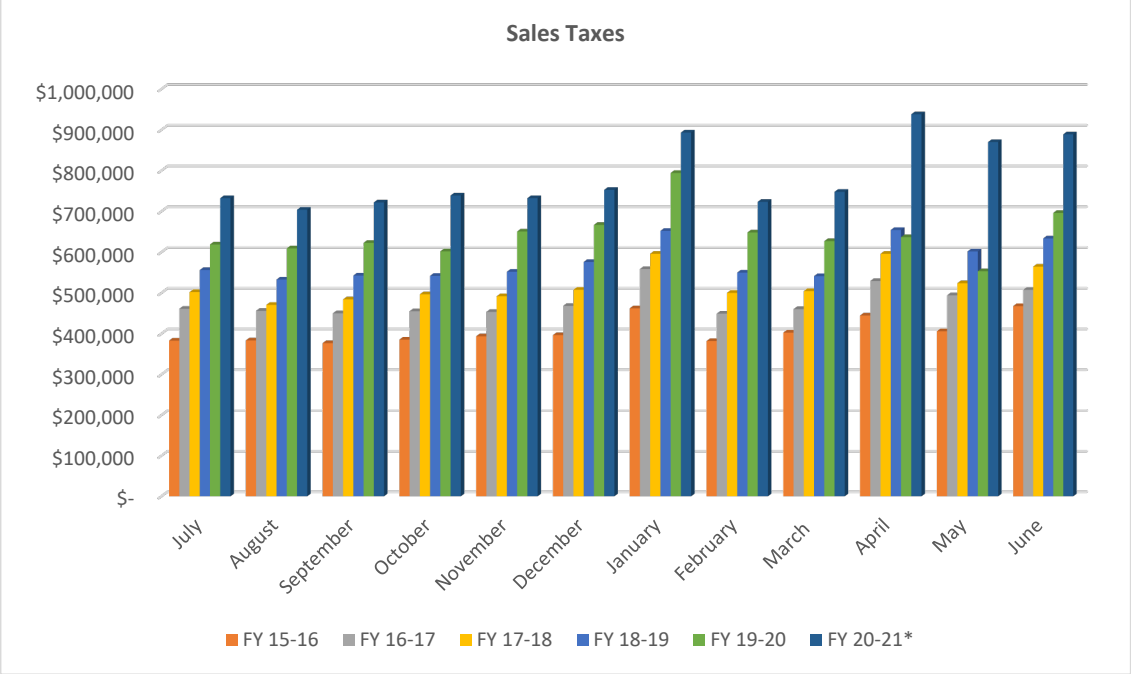
City of Buckeye
General Fund - State Shared Revenues - Urban Revenue Sharing

	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	Chg over Prior Year
July	$ 510,455	$ 638,446	$ 667,076	$ 690,781	$ 801,427	$ 948,234	18.32%
August	510,455	638,446	667,076	690,781	801,427	948,234	18.32%
September	510,455	638,446	667,076	690,809	801,427	948,234	18.32%
October	510,455	638,446	667,076	690,809	801,427	948,234	18.32%
November	510,455	638,446	667,076	690,809	801,427	948,234	18.32%
December	510,455	638,446	667,076	690,809	801,427	948,235	18.32%
January	510,455	638,446	667,076	690,809	801,427	948,234	18.32%
February	510,455	638,446	667,076	690,809	801,427	948,234	18.32%
March	510,455	634,775	667,076	690,809	801,427	948,234	18.32%
April	510,455	638,038	667,076	690,809	801,427	948,234	18.32%
May	510,455	638,038	667,076	690,809	801,427	948,235	18.32%
June	510,455	638,038	667,076	690,809	801,427	948,234	18.32%
	$ 6,125,464	$ 7,656,457	$ 8,004,917	$ 8,289,650	$ 9,617,118	$ 11,378,810	
Annual % Change	31.74%	24.99%	4.55%	3.56%	16.01%	18.32%	



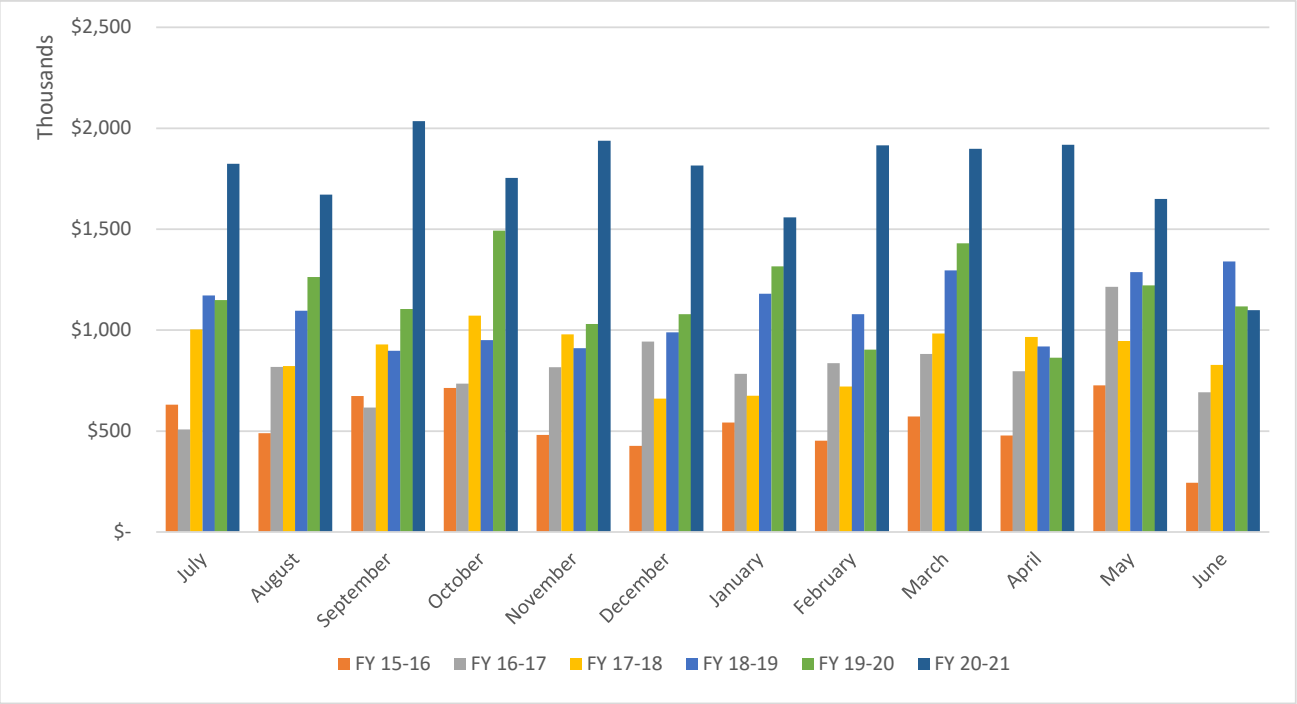
City of Buckeye
General Fund - State Shared Revenues - Sales Taxes

	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21*	Chg over Prior Year
July	$ 383,106	$ 461,183	$ 502,183	$ 556,302	$ 618,932	$ 732,546	18.36%
August	383,620	456,117	470,770	532,884	609,387	704,149	15.55%
September	377,002	450,051	484,349	542,769	622,870	722,052	15.92%
October	385,639	455,289	496,721	542,001	602,128	739,012	22.73%
November	393,722	453,685	491,938	552,063	650,779	732,548	12.56%
December	396,658	468,310	507,881	575,989	666,927	752,838	12.88%
January	462,357	558,699	596,144	652,337	794,410	893,477	12.47%
February	382,009	449,312	500,315	549,987	648,436	723,461	11.57%
March	402,793	460,291	504,646	541,245	627,157	748,073	19.28%
April	444,794	529,283	596,063	654,491	636,860	938,300	47.33%
May	406,147	494,216	523,977	601,930	553,329	870,098	57.25%
June	467,786	507,744	564,627	633,752	696,322	889,015	27.67%
	$ 4,885,632	$ 5,744,180	$ 6,239,614	$ 6,935,749	$ 7,727,535	$ 9,445,569	
Annual % Change	5.08%	17.57%	8.62%	11.16%	11.42%	22.23%	



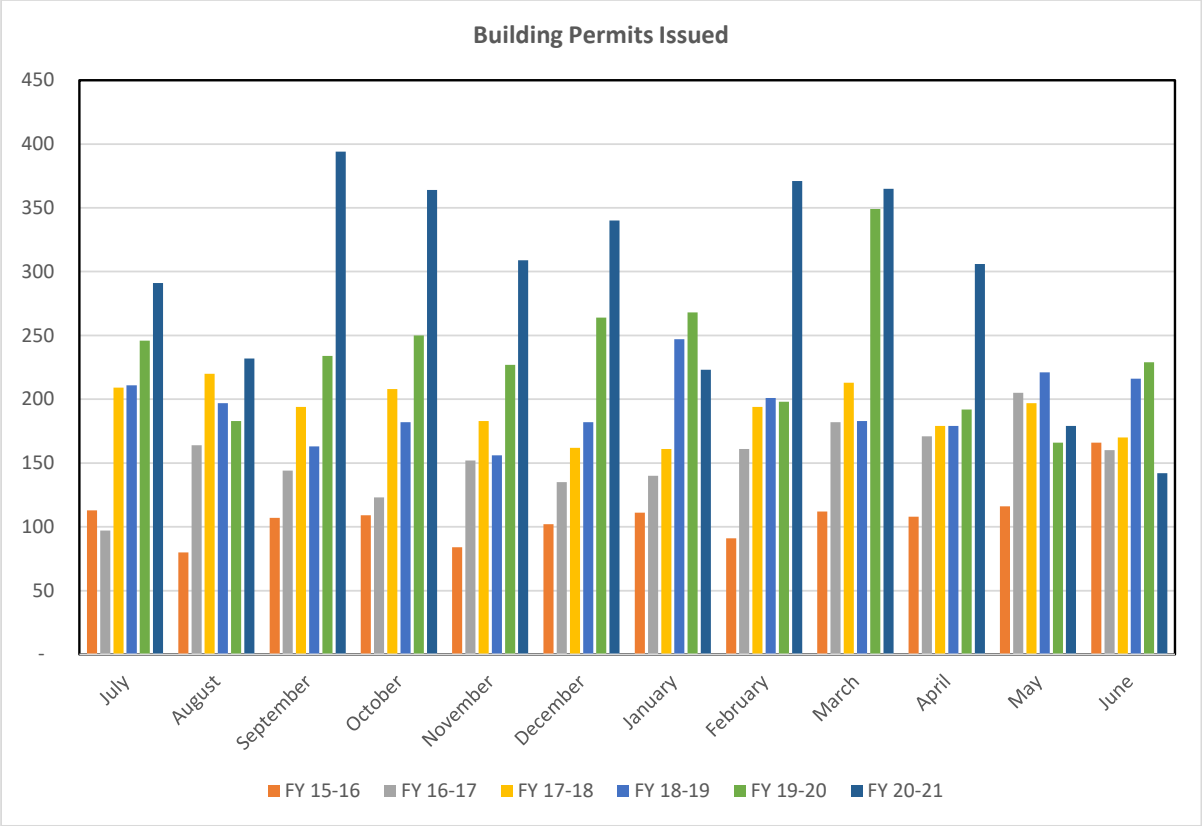
City of Buckeye
Building, Planning, & Permit Revenues

	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	% Chg over Prior Year
July	$ 630,827	$ 508,334	$ 1,003,234	$ 1,171,853	$ 1,149,138	$ 1,824,169	58.74%
August	489,977	817,667	821,749	1,095,616	1,263,260	1,670,684	32.25%
September	672,944	616,454	929,223	898,208	1,104,556	2,034,610	84.20%
October	713,742	734,875	1,071,240	950,288	1,492,824	1,754,514	17.53%
November	481,150	816,457	978,725	910,736	1,030,402	1,937,906	88.07%
December	427,062	943,448	660,517	988,389	1,078,597	1,814,774	68.25%
January	541,893	783,195	674,415	1,180,425	1,316,103	1,557,858	18.37%
February	451,960	836,013	719,968	1,079,161	902,787	1,914,904	112.11%
March	572,544	882,596	982,825	1,295,579	1,430,449	1,898,773	32.74%
April	478,212	796,054	965,653	918,968	864,069	1,918,100	121.98%
May	726,762	1,215,163	945,675	1,286,647	1,221,440	1,649,712	35.06%
June	243,813	692,181	827,604	1,339,550	1,117,213	1,098,760	
Total Permit Fees	**$ 6,430,886**	**$ 9,642,437**	**$ 10,580,828**	**$ 13,115,420**	**$ 13,970,838**	**$ 21,074,764**	
Annual % Change	12.89%	49.94%	9.73%	23.95%	6.52%	50.85%	



City of Buckeye
Single Family Residential (SFR) Permits Issued

	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	% Chg over Prior Year
July	113	97	209	211	246	291	18.29%
August	80	164	220	197	183	232	26.78%
September	107	144	194	163	234	394	68.38%
October	109	123	208	182	250	364	45.60%
November	84	152	183	156	227	309	36.12%
December	102	135	162	182	264	340	28.79%
January	111	140	161	247	268	223	-16.79%
February	91	161	194	201	198	371	87.37%
March	112	182	213	183	349	365	4.58%
April	108	171	179	179	192	306	59.38%
May	116	205	197	221	166	179	7.83%
June	166	160	170	216	229	142	-37.99%
SFR Permits Issued	1,299	1,834	2,290	2,338	2,806	3,516	
Annual Percent Change	42.28%	41.19%	24.86%	2.10%	20.02%	25.30%	



City of Buckeye
Highway User Revenue Fund (HURF)
Balance Sheet - Unaudited
As of June 30, 2021

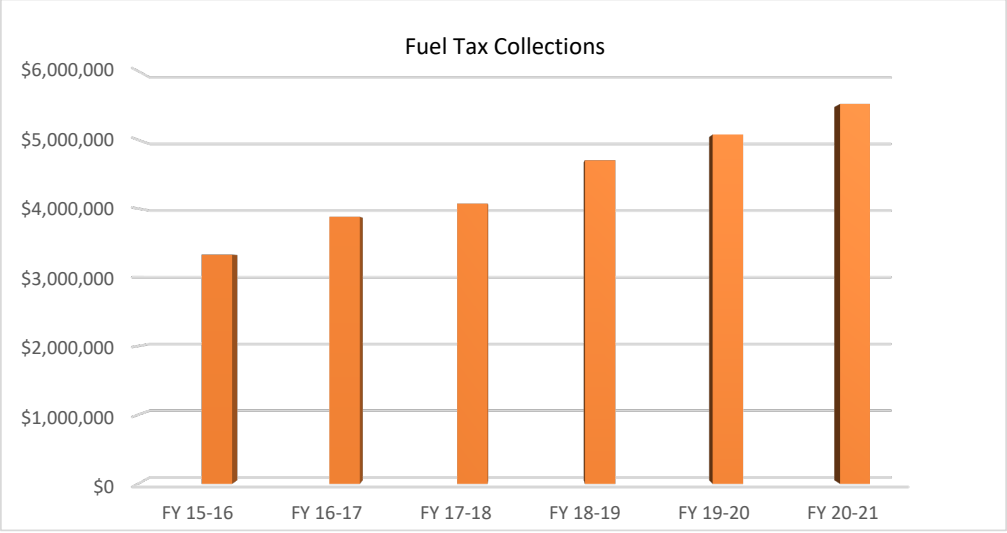
	FY 18-19	FY 19-20	FY 20-21	Change over Prior Year
Assets				
Cash and Investments	$ 2,608,621	$ 3,969,675	$ 4,892,702	$ 923,027
Cash held with Trustee	118,306	-	-	-
Intergovernmental Receivable	446,830	401,721	887,127	485,406
Accounts Receivable	-	143,855	-	(143,855)
Inventory	83,849	70,741	107,638	36,897
Prepaid Expenses	1,079	830	375	(455)
Total Assets	**$ 3,258,685**	**$ 4,586,822**	**$ 5,887,842**	**$ 1,301,020**
Liabilities				
Accounts Payable	$ 641,676	$ 278,248	$ 238,601	$ (39,647)
Total Liabilities	641,676	278,248	238,601	(39,647)
Fund Balance				
Restricted -				
Reserved for Encumbrances	1,058	318,419	1,211,638	893,219
Unrestricted Fund Balance	2,615,951	3,990,155	4,437,603	447,448
Total Fund Balance	2,617,009	4,308,574	5,649,241	1,340,667
Total Liabilities & Fund Balance	**$ 3,258,685**	**$ 4,586,822**	**$ 5,887,842**	**$ 1,301,020**

City of Buckeye
Highway User Revenue Fund (HURF)
Year to date summary of Revenues, Expenditures and Transfers
For the period ending June 30, 2021
100% of the year lapsed

	FY 2020-21 Budget	Year to Date FY 2020-21	Year to Date FY 2019-20	Amount Encumbered	Budget Variance	% Received or Spent
Revenues						
Fuel Taxes	$ 5,171,000	$ 5,520,744	$ 5,075,899		$ 349,744	106.76%
Grant Revenues	500,000	386,468	-		(113,532)	77.29%
All Other Revenues	128,000	77,020	311,209		(50,980)	60.17%
Total Revenues	**$ 5,799,000**	**$ 5,984,232**	**$ 5,387,108**		**$ 185,232**	**103.19%**
Operating Expenditures						
Personnel Services	$ 1,984,694	$ 1,934,154	$ 2,039,543	$ -	$ 50,540	97.45%
Services & Other Charges	1,604,485	1,401,034	1,426,338	76,189	127,262	92.07%
Operating Expenditures	**3,589,179**	**3,335,188**	**3,465,881**	**76,189**	**177,802**	95.05%
Capital Outlay Expenditures	1,765,971	735,557	151,492	819,555	210,859	88.06%
Transfers Out	1,000,000	-	78,171	-	1,000,000	0.00%
Contingency	655,488	-	-	-	655,488	0.00%
Total Expenditures & Transfers Out	**$ 7,010,638**	**$ 4,070,745**	**$ 3,695,544**	**$ 895,744**	**$ 2,044,149**	**70.84%**
Revenues & Transfers In over (under) Expenditures & Transfers Out	**(1,211,638)**	**1,913,487**	**1,691,564**			
Beginning Fund Balance	**3,800,000**	**3,735,753**	**2,617,009**			
Ending Fund Balance	**$ 2,588,362**	**$ 5,649,240**	**$ 4,308,573**			

City of Buckeye
City Highway User Revenue Fund (HURF) Revenues
For the period ending June 30, 2021

HURF Revenues	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	% Chg over Prior year
Fuel Taxes	$ 3,329,927	$ 3,880,568	$ 4,072,250	$ 4,702,433	$ 5,075,899	$ 5,520,744	8.76%
All Other Revenues	118,295	228,199	66,728	110,797	311,209	77,020	-75.25%
Total Revenues	**$ 3,448,222**	**$ 4,108,767**	**$ 4,138,978**	**$ 4,813,230**	**$ 5,387,108**	**$ 5,597,764**	**3.91%**
Annual Percent Change	5.84%	19.16%	0.74%	16.29%	11.92%		
Total YTD HURF collected**	3,329,927	3,880,568	4,072,250	4,702,433	5,075,899	*5,171,000*	
% Collected	100.00%	100.00%	100.00%	100.00%	100.00%	*106.76%*	



** FY 2020-21 represents amount budgeted; not actual.

City of Buckeye
Water Fund
Balance Sheet - Unaudited
As of June 30, 2021

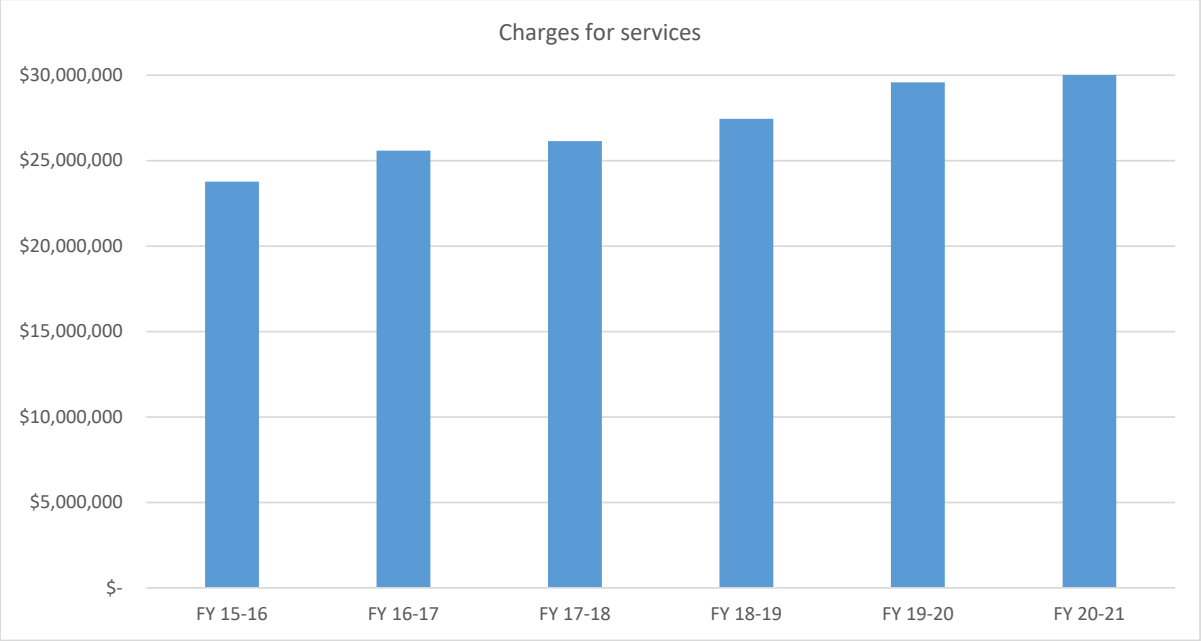
Assets	FY 18-19	FY 19-20	FY 20-21	Change over Prior Year
Current Assets:				
Cash and Investments	$ 31,604,431	$ 33,753,508	$ 42,358,933	$ 8,605,425
Cash with Trustee	2,294,228	1,775,663	2,637,059	861,396
Accounts Receivable	4,070,618	4,724,600	1,776,327	(2,948,273)
Prepaid Expenses	633	6,838	1,123	(5,715)
Inventory	326,203	234,929	1,047,204	812,275
Deferred expenses -				
Pension - ASRS	868,594	868,594	641,204	(227,390)
Total Current Assets	39,164,707	41,364,132	48,461,850	7,097,718
Capital Assets:				
Land	1,998,440	1,998,440	1,998,440	-
Buildings	16,363,047	16,363,047	16,363,047	-
Improvements other than Building	386,056	386,056	417,046	30,990
Machinery and Equipment	4,598,652	4,598,652	5,589,405	990,753
Infrastructure	143,636,630	143,636,630	141,683,188	(1,953,442)
Construction in Progress	27,432,925	27,432,925	55,869,603	28,436,678
Goodwill	23,358,372	20,037,208	20,037,208	-
Accumulated Depreciation	(73,792,092)	(73,792,092)	(77,836,106)	(4,044,014)
Total Capital Assets	143,982,030	140,660,866	164,121,831	23,460,965
Total Assets	**$ 183,146,737**	**$ 182,024,998**	**$ 212,583,681**	**$ 30,558,683**
Liabilities				
Current Liabilities				
Accounts Payable	$ 5,752,369	$ 5,842,031	$ 5,091,336	$ (750,695)
Retainage Payable	1,293,533	1,293,533	933,501	(360,032)
Customer Deposits	2,736,250	1,369,009	469,605	(899,404)
Noncurrent Liabilities				
Net Pension Liability - ASRS	4,469,155	4,469,155	4,469,673	518
Notes Payable	65,314,798	63,155,778	84,984,808	21,829,030
Total Liabilities	79,566,105	76,129,506	95,948,923	19,819,417
Fund Balance				
Restricted -				
Reserved for Encumbrances	11,435,961	27,440,320	21,882,088	(5,558,232)
Unrestricted Fund Balance	92,144,671	78,455,172	94,752,670	16,297,498
Total Fund Balance	103,580,632	105,895,492	116,634,758	10,739,266
Total Liabilities & Fund Balance	**$ 183,146,737**	**$ 182,024,998**	**$ 212,583,681**	**$ 30,558,683**

City of Buckeye
Water Fund
Year to date summary of Revenues, Expenditures, and Transfers
For the period ending June 30, 2021
100% of the year lapsed

	FY 2020-21 Budget	Year to Date FY 2020-21	Year to Date FY 2019-20	Amount Encumbered	Budget Variance	% Received or Spent
Revenues						
Charges For Services	$ 28,285,000	$ 29,655,247	$ 28,008,845		$ 1,370,247	104.84%
Environmental Fee	1,250,000	1,094,829	1,579,734		(155,171)	87.59%
All Other Revenues	210,000	542,486	744,282		332,486	258.33%
Grant Proceeds	-	-	689,000		-	0.00%
Bond/Loan Proceeds	64,200,000	35,549,857	19,728,102		(28,650,143)	55.37%
Transfers from other funds	4,090,000	2,391,777	-		(1,698,223)	58.48%
Total Revenues & Transfers from	**$ 98,035,000**	**$ 69,234,196**	**$ 50,749,963**		**$ (28,800,804)**	**70.62%**
Operating Expenditures						
Personnel Services	$ 5,221,630	$ 5,056,535	$ 4,930,030	$ -	$ 165,095	96.84%
Services & Other Charges	10,780,845	9,109,495	9,874,745	335,527	1,335,823	87.61%
Debt Service	9,853,939	1,562,540	1,663,396	-	8,291,399	15.86%
Total Operating Expenditures	**25,856,414**	**15,728,570**	**16,468,171**	**335,527**	**9,792,317**	**62.13%**
Equipment and CIP	85,107,000	46,319,358	28,645,768	21,546,561	17,241,081	79.74%
Contingency	1,084,936	-	-	-	1,084,936	0.00%
Total Expenditures	**$ 112,048,350**	**$ 62,047,928**	**$ 45,113,939**	**$ 21,882,088**	**$ 28,118,334**	**74.91%**
Revenues & Transfers In over (under) Expenditures & Transfers Out	**(14,013,350)**	**7,186,268**	**5,636,024**			
Beginning Fund Balance	**34,000,000**	**109,448,490**	**103,580,632**			
Ending Fund Balance	**$ 19,986,650**	**$ 116,634,758**	**$ 109,216,656**			

City of Buckeye
Water Revenues
For the period ending June 30, 2021

Water Revenues	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	% Chg over Prior year
Charges for services*	$ 23,767,575	$ 25,588,765	$ 26,137,432	$ 27,455,357	$ 29,588,579	$ 30,750,076	3.93%
All Other Revenues	583,036	97,153	903,797	942,659	744,282	542,486	-27.11%
Total Revenues	**$ 24,350,611**	**$ 25,685,918**	**$ 27,041,229**	**$ 28,398,016**	**$ 30,332,861**	**$ 31,292,562**	**3.16%**
Annual Percent Change		5.48%	5.28%	5.02%	6.81%		
YTD Charges for Services collected**		$ 25,588,765	$ 26,137,432	$ 27,455,357	$ 29,588,579	*$ 29,535,000*	
% Collected		100.00%	100.00%	100.00%	100.00%	104.11%	



* Includes Environmental Fee
** FY 2020-21 represents amount budgeted; not actual

City of Buckeye
Water Repair and Replacement Fee Fund
Year to date summary of Revenues, Expenditures, and Transfers
For the period ending June 30, 2021
100% of the year lapsed

	FY 2020-21 Budget	Year to Date FY 2020-21	Year to Date FY 2019-20	Amount Encumbered	Budget Variance	% Received or Spent
Revenues						
Charges For Services	$ 900,000	$ 893,551	$ 402,626		$ (6,449)	99.28%
Investment Earnings	-	939			939	0.00%
Total Revenues	**$ 900,000**	**$ 894,490**	**$ 402,626**		**$ (5,510)**	**99.39%**
Capital Outlay and Transfers out						
Equipment and CIP	$ 600,000	$ 413,280	$ -	$ 38,993	$ 147,727	75.38%
Transfer Out	500,000	500,000	-		-	100.00%
Total Expenditures and Transfers Out	**$ 1,100,000**	**$ 913,280**	**$ -**	**$ 38,993**	**$ 147,727**	**86.57%**
Revenues & Transfers In over (under) Expenditures & Transfers Out	**(200,000)**	**(18,790)**	**402,626**			
Beginning Fund Balance	**300,000**	**402,153**	**-**			
Ending Fund Balance	**$ 100,000**	**$ 383,363**	**$ 402,626**			

City of Buckeye
Wastewater Fund
Balance Sheet - Unaudited
As of June 30, 2021

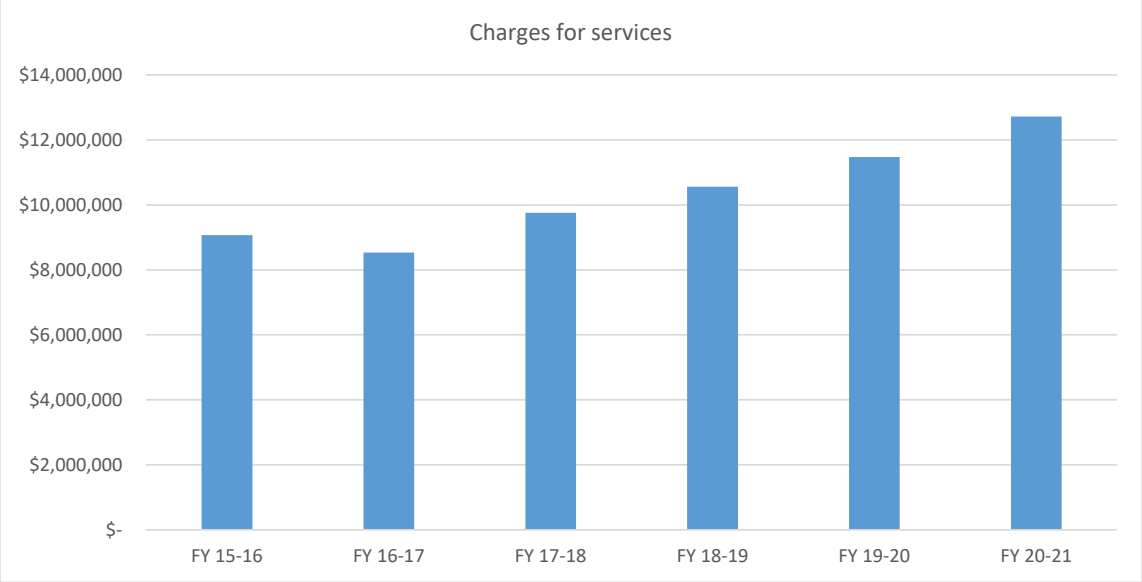
Assets	FY 18-19	FY 19-20	FY 20-21	Change over Prior Year
Current Assets:				
Cash and Investments	$ 14,711,641	$ 16,321,440	$ 12,338,373	$ (3,983,067)
Cash with Trustee	114,984	247,521	251,609	4,088
Accounts Receivable	1,259,362	1,445,095	591,919	(853,176)
Prepaid Expenses	914	1,361	191	(1,170)
Deferred expenses -				
Pension - ASRS	477,727	477,727	338,284	(139,443)
Total Current Assets	16,564,628	18,493,144	13,520,376	(4,972,768)
Capital Assets:				
Land	5,104,366	5,104,366	5,104,366	-
Buildings	70,332,855	70,332,855	70,332,855	-
Improvements other than Building	393,406	393,406	393,406	-
Machinery and Equipment	2,588,582	2,588,582	3,274,302	685,720
Infrastructure	162,054,895	162,054,895	164,321,315	2,266,420
Construction in Progress	1,999,364	1,999,364	3,203,100	1,203,736
Accumulated Depreciation	(69,914,988)	(69,914,988)	(76,031,982)	(6,116,994)
Total Capital Assets	172,558,480	172,558,480	170,597,362	(1,961,118)
Total Assets	**$ 189,123,108**	**$ 191,051,624**	**$ 184,117,738**	**$ (6,933,886)**
Liabilities				
Current Liabilities				
Accrued Liabilities	$ 1,730,620	$ 1,004,625	$ 561,745	$ (442,880)
Retainage Payable	-	-	20,804	20,804
Customer Deposits	392,759	477,124	299,722	(177,402)
Noncurrent Liabilities				
Net Pension Liability - ASRS	2,458,036	2,458,036	2,358,094	(99,942)
Notes Payable	9,160,007	9,160,007	7,837,479	(1,322,528)
Total Liabilities	13,741,422	13,099,792	11,077,844	(2,021,948)
Fund Balance				
Restricted -				
Reserved for Encumbrances	271,130	8,707,352	2,280,441	(6,426,911)
Unrestricted Fund Balance	175,110,556	169,244,480	170,759,453	1,514,973
Total Fund Balance	175,381,686	177,951,832	173,039,894	(4,911,938)
Total Liabilities & Fund Balance	**$ 189,123,108**	**$ 191,051,624**	**$ 184,117,738**	**$ (6,933,886)**

City of Buckeye
Wastewater Summary of Revenues, Expenditures, & Transfers
For the period ending June 30, 2021
100% of the year lapsed

	FY 2020-21 Budget	Year to Date FY 2020-21	Year to Date FY 2019-20	Amount Encumbered	Budget Variance	% Received or Spent
Revenues						
Charges For Services	$ 11,580,000	$ 12,212,194	$ 11,468,590		$ 632,194	105.46%
Environmental Fees	330,000	511,447	-		181,447	154.98%
All Other Revenues	100,000	169,883	366,818		69,883	169.88%
Transfers from other funds	4,700,000	3,669,113	-		(1,030,887)	78.07%
Total Revenues & Transfers from	**$ 16,710,000**	**$ 16,562,637**	**$ 11,835,408**		**$ (147,363)**	**99.12%**
Operating Expenditures						
Personnel Services	$ 2,655,504	$ 2,594,393	$ 2,615,221	-	$ 61,111	97.70%
Services & Other Charges	3,857,965	3,430,089	3,507,703	67,101	360,775	90.65%
Debt Service	1,016,465	108,581	726,650	-	907,884	10.68%
Total Operating Expenditures	**7,529,934**	**6,133,063**	**6,849,574**	**67,101**	**1,329,770**	**82.34%**
Equipment and CIP Expenditures	21,766,629	13,538,145	2,415,688	2,213,340	6,015,144	72.37%
Transfers Out	-	309,864	-	-	(309,864)	0.00%
Contingency	467,401	-	-	-	467,401	0.00%
Total Expenditures	**$ 29,763,964**	**$ 19,981,072**	**$ 9,265,262**	**$ 2,280,441**	**$ 7,502,451**	**25.21%**
Revenues & Transfers In over (under) Expenditures & Transfers Out	**(13,053,964)**	**(3,418,435)**	**2,570,146**			
Beginning Fund Balance	**176,458,329**	**176,458,329**	**175,381,686**			
Ending Fund Balance	**$ 163,404,365**	**$ 173,039,894**	**$ 177,951,832**			

City of Buckeye
Wastewater Revenues
For the period ending June 30, 2021

Wastewater Revenues	FY 15-16	FY 16-17	FY 17-18	FY 18-19	FY 19-20	FY 20-21	% Chg over Prior year
Charges for services	$ 9,070,976	$ 8,535,682	$ 9,753,204	$ 10,560,885	$ 11,468,590	$ 12,723,641	10.94%
All Other Revenues	91,120	55,000	424,998	382,461	366,818	169,883	-53.69%
Total Revenues	**$ 9,162,096**	**$ 8,590,682**	**$ 10,178,202**	**$ 10,943,346**	**$ 11,835,408**	**$ 12,893,524**	**8.94%**
Annual Percent Change		-6.24%	18.48%	7.52%	8.15%	8.94%	
YTD Charges for Services collected*		$ 8,535,682	$ 9,753,204	$ 10,560,884	$ 11,468,590	*$ 11,910,000*	
% Collected		100.00%	100.00%	100.00%	100.00%	*106.83%*	



* FY 2020-21 represents amount budgeted; not actual

City of Buckeye
Environmental Services Fund
Balance Sheet - Unaudited
As of June 30, 2021

	FY 18-19	FY 19-20	FY 20-21	Change over Prior Year
Assets				
Current Assets:				
Cash and Investments	$ 1,577,362	$ 1,147,753	$ 1,429,151	$ 281,398
Accounts Receivable	803,581	937,501	291,578	(645,923)
Prepaid Expenses	1,655	-	184	184
Deferred expenses -				
Pension - ASRS	172,461	172,461	127,497	(44,964)
Total Current Assets	2,555,059	2,257,715	1,848,410	(409,305)
Capital Assets:				
Buildings	75,567	75,567	75,567	-
Machinery and Equipment	203,768	203,768	260,993	57,225
Accumulated Depreciation	(100,994)	(100,994)	(149,154)	(48,160)
Total Capital Assets	178,341	178,341	187,406	9,065
Total Assets	**$ 2,733,400**	**$ 2,436,056**	**$ 2,035,816**	**$ (400,240)**
Liabilities				
Current Liabilities				
Accrued Liabilities	$ 1,055,659	$ 641,546	$ 714,411	$ 72,865
Customer Deposits	306,748	339,882	193,672	(146,210)
Noncurrent Liabilities				
Net Pension Liability - ASRS	887,354	887,354	888,745	1,391
Total Liabilities	2,249,761	1,868,782	1,796,828	(71,954)
Fund Balance				
Restricted -				
Reserved for Encumbrances	-	3,471	10,241	6,770
Unrestricted Fund Balance	483,639	563,803	228,747	(335,056)
Total Fund Balance	483,639	567,274	238,988	(328,286)
Total Liabilities & Fund Balance	**$ 2,733,400**	**$ 2,436,056**	**$ 2,035,816**	**$ (400,240)**

City of Buckeye
Environmental Services Summary of Revenues, Expenditures, & Transfers
For the period ending June 30, 2021
100% of the year lapsed

	FY 2020-21 Budget	Year to Date FY 2020-21	Year to Date FY 2019-20	Amount Encumbered	Budget Variance	% Received or Spent
Revenues						
Charges For Services	$ 8,144,560	$ 7,854,255	$ 7,514,517		$ (290,305)	96.44%
All Other Revenues	230,000	245,481	261,146		15,481	106.73%
Total Revenues & Transfers In	**$ 8,374,560**	**$ 8,099,736**	**$ 7,775,663**		**$ (274,824)**	**96.72%**
Operating Expenditures						
Personnel Services	$ 924,282	$ 872,576	$ 960,401	$ -	$ 51,706	94.41%
Services & Other Charges	7,148,321	7,497,185	6,674,402	10,241	(359,105)	105.02%
Total Operating Expenditures	**8,072,603**	**8,369,761**	**7,634,803**	**10,241**	**(307,399)**	**103.81%**
Equipment and CIP	167,500	20,972	57,225	-	146,528	12.52%
Contingency	685,848	-	-	-	685,848	0.00%
Total Expenditures & Transfers Out	**$ 8,925,951**	**$ 8,390,733**	**$ 7,692,028**	**$ 10,241**	**$ 524,977**	**94.12%**
Revenues & Transfers In over (under) Expenditures & Transfers Out	**(551,391)**	**(290,997)**	**83,635**			
Beginning Fund Balance	**529,985**	**529,985**	**483,639**			
Ending Fund Balance	**$ (21,406)**	**$ 238,988**	**$ 567,274**			

City of Buckeye
FY 2020-21 Capital Improvement Projects
As of June 30, 2021

Project Description	Budget FY 19-20	Revised FY 19-20	Spent to date	Encumbrances	Remaining Balance
Emergency Backup Generators	$0	$5,000	$22	$0	$4,978
DS Front Counter Remodel	-	25,212	25,211	-	1
Charman Bldg Space Plan	-	782,995	549,191	55,448	178,356
Old Justice Court Space Plan	-	450,220	409,594	12,177	28,449
City Hall Employee Parking Lot	-	412	411	-	1
Police Evidence Building	300,000	86,256	86,256	-	-
Communication Tower, ParknRide	2,300,000	2,241,145	153,025	300,813	1,787,307
Police Communications Center	500,000	500,000	452,524	36,080	11,396
Police Training Facility	-	274,879	262,079	12,800	-
Tartesso Fire Station F705	2,500,000	2,500,000	1,753,290	-	746,710
Blue Horizons Fire Station	150,000	150,000	125	-	149,875
Fire House 706, Westpark	150,000	150,000	-	-	150,000
Miller & Broadway TS	20,175	2,800,000	369,978	37,379	2,392,643
Warner St Bridge Approaches	2,600,000	1,991,005	-	-	1,991,005
Miller & Southern TS	76,750	2,800,000	459,857	2,197,815	142,328
247 Ave Paving, LBuck-Durango	3,125,000	3,285,000	1,878,342	1,364,766	41,892
Miller & Watson TI Enhancement	5,000,000	2,700,000	2,530,563	-	169,437
Apache & Southern TS	281,068	1,650,000	113,271	61,064	1,475,665
Durango St - Miller to Yuma	63,000	478,000	337,414	114,453	26,133
Rdwy Impr - Watson-Durango/L Buckeye	140,000	140,000	35,476	12,932	91,592
Rdwy Imp-Watson-85 to Southern	385,000	385,000	300,373	45,599	39,028
Jackrabbit/Indian Sch-Inters Improv	962,273	962,273	923,496	-	38,777
Miller & Baseline TS	41,000	41,000	17,818	12,164	11,018
Miller Rd Paving (IGA)	110,335	110,335	110,335	-	-
Energy Savings Performance Contract	100,000	100,000	-	100,000	-
Bureau Reclamation/City Stormwater	90,000	90,000	-	-	90,000
VW - Yuma Road to Van Buren-Roadway	22,000	22,000	-	20,555	1,445
ParknRide Expansion, Jackrabbit Trail	1,988,500	278,500	69,771	-	208,729
Vehicle Detection Camera Procurement	668,521	668,521	30,000	-	638,521
ITS Yuma Road-237th Lane to Verrado	796,643	796,643	38,634	74,353	683,656
Miller Rd Expansion - Durango to LB	-	249,588	129,692	67,305	52,591
Miller Road - Lower Buckeye Sidewalk	-	90,000	87,134	-	2,866
Sundance Park Ph II	3,903,305	10,113,305	3,334,294	6,775,902	3,109
Sundance Crossing Tenant Improvement	1,365,000	1,365,000	1,194,909	2,520	167,571
N Library & Comm Center	460,577	460,577	116	-	460,461
Buckeye Pool Expansion	704,700	704,700	569,925	-	134,775
Performing Arts Center (A-Wing)	36,140	648	-	-	648
BLM Land Miller/TonopSalomeHwy	100,000	100,000	40,230	37,089	22,681
Park Site Lighting Replacement	135,000	135,000	117,381	-	17,619
North Zone 30-acre Community Park	120,000	120,000	99,515	-	20,485
Gila River Restoration	100,000	100,000	33,535	-	66,465
Canal Trail-Miller to Baseline	423,400	423,400	-	-	423,400
Skyline Regional Park Ph II	49,425	49,425	49,425	-	-
CDBG - Sr Ctr Kitchen Remodel	780,150	780,150	-	-	780,150
Earl Edgar Park Scoreboards	80,000	80,000	71,597	-	8,403
El Rio Trail Along Gila River	50,000	50,000	-	-	50,000
Buckeye Valley Museum Renovation	60,450	60,450	46,837	-	13,613
Contingency	15,976,622	5,368,395	-	-	5,368,395
General Government CIP Projects	**$ 46,715,034**	**$ 46,715,034**	**$ 16,681,646**	**$ 11,341,214**	**$ 18,692,174**

City of Buckeye
FY 2020-21 Capital Improvement Projects
As of June 30, 2021

Project Description	Budget FY 19-20	Revised FY 19-20	Spent to date	Encumbrances	Remaining Balance
Jackie A Meek Water Campus	$ 64,200,000	$ 64,200,000	$ 38,341,699	$ 20,992,775	$ 4,865,526
Water Treatment Facility #9	1,200,000	1,200,000	6,777	20,332	1,172,891
Airport Waterline for Commercial	3,000,000	3,000,000	1,602,627	61,966	1,335,407
Farallon Water Campus #16	1,200,000	1,200,000	1,013,260	2,700	184,040
Miller Road under I-10 W&S sleeving	3,000,000	3,000,000	3,000,000	-	-
West Phoenix Estates Water Campus #3	5,200,000	4,983,915	52,346	112,773	4,818,796
Drill well #13	600,000	600,000	136,273	43,785	419,942
Broadway Water Campus Well #7	505,000	505,000	-	-	505,000
Water Treatment Plant #5	1,434,000	1,434,000	65,247	24,107	1,344,646
Valencia System Water Mains Upgrade	500,000	500,000	50,939	31,706	417,355
Sundance Water Treatment Plant	850,000	850,000	712,353	-	137,647
Irrigation Impr gates 12, 13, 20 & 21	591,000	152,417	11,260	-	141,157
Water Repair and Replacement Program	500,000	447,632	-	-	447,632
Sundance Reclaim Tanks Rehab	500,000	500,000	9,851	2,000	488,149
Repair and Re-coat Reservoirs	430,000	430,000	46,535	-	383,465
Sundance 12" PRV	175,000	175,000	-	-	175,000
Monopoles (9)	657,000	657,000	497,789	18	159,193
Access Control - Water Wells/Sites	225,000	225,000	140,538	-	84,462
Water Resources Admin Building	-	47,000	47,000	-	-
Sonoran Vista East Vessel Replacement	-	216,085	207,938	-	8,147
Tartesso Water System SCADA	-	254,806	178,471	31,920	44,415
Water CIP Projects	**$ 84,767,000**	**$ 84,577,855**	**$ 46,120,903**	**$ 21,324,082**	**$ 17,080,308**
N.Miller Rd Design by Love's T	$ 9,000,000	$ 8,750,000	$ 8,029,375	$ -	$ 720,625
Sundance Anoxic Basin #4	3,500,000	3,500,000	420,032	-	3,079,968
Central WRF SCADA Improvements	100,000	100,000	96,795	-	3,205
Festival Ranch WRF SCADA Improvemen	370,000	170,000	62,741	11,000	96,259
Central WRF-Improvements	2,712,000	2,525,000	2,372,804	-	152,196
Festival Ranch WRF Headworks System	1,800,000	1,253,064	695,184	213,368	344,512
Lift Station West of MC85	1,000,000	1,000,000	-	-	1,000,000
Sundance WRF Centrifuge	850,000	1,500,000	107,721	1,355,412	36,867
Tartesso WRF SCADA Improvements	800,000	249,000	156,754	-	92,246
Wastewater Repair & Replacement Prog	500,000	140,860	29,044	-	111,816
Apache Road Manhole Rehab	275,000	425,000	326,086	35,408	63,506
Sewer line 2nd Street to Centre Rehab	212,898	212,898	3,621	27,107	182,170
Access Control Wastewater Facilities	150,000	150,000	139,926	4,294	5,780
NE Lift Station	-	527,283	136,986	390,297	-
WRF #6 - Phase	-	140,000	101,650	31,660	6,690
WRF Odor Scrubber	-	19,653	19,652	-	1
Wastewater Masterplan	200,000	200,000	97,471	96,549	5,980
Water Resources Admin Building	-	47,000	47,000	-	-
Wastewater CIP Projects	**$ 21,469,898**	**$ 20,909,758**	**$ 12,842,842**	**$ 2,165,095**	**$ 5,901,821**
Total CIP Projects	**$ 152,951,932**	**$ 152,202,647**	**$ 75,645,391**	**$ 34,830,391**	**$ 41,674,303**